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## Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

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Complete List of Authors:	Gompels, Mark; North Bristol NHS Trust, Department of Immunology, Southmead Hospital Michael, Skevi; University of Bristol, School of Mathematics Davies, Charlotte; University of Bristol, Department of Population Health Sciences, Bristol Medical School Jones, Tim; University of Bristol; University Hospitals Bristol NHS Foundation Trust, The National Institute for Health Research Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) Macleod, John; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions May, Margaret; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions
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SCHOLARONE™ Manuscripts Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

M Gompels<sup>1</sup>, S Michael<sup>2</sup>, C F Davies<sup>3</sup>, T Jones<sup>3,4</sup>, John MacLeod<sup>3,5</sup>, M T May<sup>3,5</sup>

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<sup>1</sup> Dr Mark Gompels: Consultant HIV, Department of Immunology, Southmead Hospital, North Bristol NHS Trust, UK. Email: Mark.Gompels@nbt.nhs.uk

<sup>2</sup> Dr Skevi Michael: Senior Teaching Associate, School of Mathematics, University of Bristol, UK. Email: Skevi.Michael@bristol.ac.uk

<sup>3</sup> Dr Charlotte F Davies: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK. Email: <a href="mailto:Charlotte.Davies@bristol.ac.uk">Charlotte.Davies@bristol.ac.uk</a>
<sup>3,4</sup> Dr Timothy Jones: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute for Health Research Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) at University Hospitals Bristol NHS Foundation Trust, Bristol, UK. Email: Timothy.Jones@bristol.ac.uk
<sup>3,5</sup> Professor John Macleod, Professor of Clinical Epidemiology and Primary Care, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions at University of Bristol, UK. Email: John.Macleod@bristol.ac.uk
<sup>3,5</sup> Professor Margaret T May, Professor of Medical Statistics, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions at University

#### **Corresponding author:**

Prof. Margaret T. May
Department of Population Health Sciences
Bristol Medical School
University of Bristol
Bristol
BS8 2PS

of Bristol, Bristol, UK. Email: Margaret.may@bristol.ac.uk

UK Telephone: +44 117 9287287

Fax: +44 117 928 7325

margaret.may@bristol.ac.uk

#### Alternative corresponding author:

Dr. Charlotte F. Davies Department of Population Health Sciences **Bristol Medical School** University of Bristol Bristol BS8 2PS

UK Telephone: +44 117 9287209

Fax: +44 117 928 7325

charlotte.davies@bristol.ac.uk

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#### Abstract 300

**Objectives:** To estimate trends in HIV testing, positivity and prevalence in UK Primary Care for 2000-2015 as part of a wider investigation into reasons for late diagnosis of HIV.

**Design:** Retrospective cohort study using the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care.

**Setting:** 404 General Practices in England.

**Participants:** 5,979,598 adults aged > 16 years registered between 2000-2015 with 45,093,761 person years of observation.

**Outcomes:** Annual HIV testing rates, proportion of positive tests, and prevalence of HIV-infected people recorded in Primary care 2000-2015.

Results: HIV testing in Primary Care increased from 2000 to 2010, but then declined. Testing was higher in females than males and in those aged 16-44 years compared with older adults. Rates per 100,000 in women aged 16-44 years were 177 (95% CI 167-188); 1309 (1282-1336); 1789 (1757-1821) and 839 (817-862) in 2000, 2005, 2010 and 2015, respectively, and for non-pregnant women: 22.5 (19-26); 134 (125-143); 262 (250-275); 190 (179, 201). For men aged 16-44 years rates were: 26 (22-29); 107 (100-115); 196 (185-206); 137 (127-146). Over the study period, there were approximately 2 positive results per 1000 HIV tests. Men were eight-fold more likely to test positive than women. The percentage of HIV diagnoses among adults recorded in CPRD may be as low as 55% in London and 67% in the rest of the UK.

**Conclusions**: HIV testing rates in Primary Care peaked in 2010 and subsequently declined. Access to testing was higher for women despite the prevalence of HIV being higher in men.

#### Implications and further research needed:

Opportunities remain in Primary Care for increasing HIV testing to prevent costly late diagnoses and decrease HIV transmission. Interventions to improve targeting of tests and increase adherence to HIV testing guidelines are needed in Primary Care.

#### **Article summary**

#### Strengths and limitations of this study

- We investigated trends in HIV testing in Primary Care using high quality data from the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care in England.
- CPRD provided anonymised Primary Care records on patients registered between 2000 and 2015 in 404 primary care practices in England which is likely to be representative of the general patient population.
- A limitation of the study is that not all General Practices contribute data to CPRD and therefore we cannot know whether the sample was representative.
- A major strength of the study was the large number of patients, nearly 6 million, which allowed us to contrast trends in HIV testing rates in Primary Care by sex, age, deprivation, rural/urban location and whether in London or not.
- Data were available for 15 years of follow up allowing us to show that HIV testing in Primary Care in England increased between 2000 and 2010, but then declined up to 2015 despite several NICE recommendations aimed at promoting testing in this setting.

#### Introduction

In 2015 there were an estimated 89,800 (95% credible interval (CrI) 87,100-94,800) people living with HIV (PLWHIV) in England of whom approximately 15% (CrI 12-19%) were unaware of their infection<sup>1</sup>. Of those individuals newly diagnosed with HIV in 2015, 39% were diagnosed late, defined for surveillance purposes as having a CD4 count below 350 cells/mL within three months of diagnosis.<sup>2</sup> An estimated 1 in 4 of newly diagnosed individuals experienced a missed opportunity for an earlier diagnosis within the healthcare system in the preceding year.<sup>3</sup> Late diagnosis of HIV is associated with increased hospitalisations, decreased life expectancy,<sup>4-7</sup> and higher treatment and care costs to the NHS.<sup>8</sup> Importantly, individuals with undiagnosed HIV are likely to be responsible for the majority of transmissions because successfully treated individuals are unlikely to infect others.<sup>9</sup>

The UK HIV epidemic is concentrated among men-who-have-sex-with-men (MSM) and black African communities, therefore NICE has issued special guidance on increasing testing in these high risk groups<sup>10,11</sup> with an update in 2014.<sup>12</sup> Prevalence is also higher amongst injection drug users particularly in some geographical areas.<sup>1,2</sup> More recently, in 2016, NICE published practical guidelines on how to increase uptake of HIV testing in primary and secondary care, specialist sexual health services and the community.<sup>13</sup> Universal HIV testing is considered to be cost-effective in areas with a local diagnosed HIV prevalence that exceeds 2 per 1000 in adults aged 15-59 years.<sup>2,14</sup> In these high HIV prevalence areas recommendations are an HIV test should be routinely offered to all new GP registrations, those undergoing tests for other sexually transmitted infections or having blood tests for any reason, and all new hospital medical admissions.<sup>2,13</sup> However, the majority of people with HIV seek medical care for a related condition several times prior to their HIV diagnosis.<sup>15</sup> This may be presenting to general practice or hospital care, but without a high degree of clinical suspicion, the diagnosis is often missed.<sup>16</sup> BHIVA has published a list of indicator diseases which are more commonly found in those who are HIV positive than negative.<sup>17</sup> HIV testing is recommended in these cases, but recent surveys suggest poor adherence to guidelines.<sup>18,19</sup>

Expanding HIV testing is a national health priority<sup>20</sup> with recent NICE guidelines offering evidence based advice on the practicalities of how to do this in the UK and how to integrate HIV testing into usual clinical care. <sup>13</sup>Regardless of local HIV prevalence, a test should be routinely offered to patients in primary care when presenting with any HIV indicator condition and/or if patients are from a high risk group, for example, someone reporting an HIV positive partner or a history of injecting drug use or chemsex. <sup>13</sup> Despite this, evidence from systematic reviews shows that there are often many barriers to testing experienced by patients and equally by the healthcare providers (HCP). <sup>21-23</sup>

Patients presenting with clinical indicator conditions to their General Practitioner (GP) provide a valuable opportunity to diagnose HIV and avoid hospitalisations due to late diagnosis.<sup>24</sup> Research has shown that the majority of patients (up to 75%) newly diagnosed with HIV had been seen in the healthcare system within the 12 months prior to their diagnosis resulting in a missed opportunity to test.<sup>15,16,25</sup> Opt out HIV testing has been shown to be feasible, acceptable and cost effective in eight pilot studies conducted in community, primary and secondary care settings in high prevalence areas across England.<sup>20</sup> However, no recent evidence is available to know if HIV testing has been increasing and guidelines have been implemented over the country and not just in high risk areas.<sup>18,19</sup>

HIV testing in Primary Care has been reported only for the years 1995 to 2005 using data from the UK General Practice Research Database (GPRD).<sup>26</sup> This study showed that testing in primary care remained low, but increased steadily. In our study we investigated HIV testing rates in Primary Care 10 years on. We analysed data from the same source collected between 2000 to 2015 to establish whether HIV testing had increased in primary care. We investigated differences in HIV testing rates and HIV diagnosis by demographic characteristics and estimated the prevalence of HIV recorded in Primary Care and compared it with estimates from national surveillance.

#### **Methods**

#### Population and data

We used data from the Clinical Practice Research Datalink (CPRD), previously known as the General Practice Research Database (GPRD), which is derived from computerised clinical records produced during consultations in primary care. CPRD provided anonymised primary care records on patients registered between 2000 and 2015 in 404 primary care practices in England. Data were available on nearly 6 million people aged over 16 years old who are broadly representative of the adult UK population<sup>27</sup>. General Practitioners (GP) enter data on tests, diagnoses and symptoms using Read codes which are a hierarchical alphanumeric system similar to, but more extensive than International Classification of Disease (ICD) codes. The list of Read codes used to identify (1) HIV tests (2) HIV diagnoses, (3) pregnancy/delivery/abortion and (4) additional CPRD browser pregnancy medcodes are listed as appendices 1 to 4, respectively, in the supplementary file. We used individual level quintiles of the Index of Multiple Deprivation, 2015. Practices were classified as rural, urban conurbation, or city/town at lower super output level (a small area geographic boundary of around 1,500 people) in England based on Office for National Statistics classifications, 2011<sup>28</sup>, and as within or outside London. Ethnicity was grouped as Asian, Black African, Black Caribbean, Other, White, and unknown based on linked Hospital Episode Statistics data.

We used national surveillance data from Public Health England (PHE) on testing in Primary Care derived from general practices that submit HIV tests to laboratories participating in the Sentinel Surveillance of Blood Borne Virus Testing (SSBBV). These practices cover 35% of England's Primary Care population. HIV testing data is captured from 66% of the Primary Care population in extremely high prevalence areas (>5 /1000), 37% within high prevalence areas (>2/1000) and 29% within low prevalence areas. These data exclude any point of care tests (POCTs) carried out by GPs, and tests carried out as part of antenatal screening. The latest data available on testing rates and positivity were for 2015<sup>29</sup>. Data on HIV prevalence were derived from the HIV and AIDS Reporting System (HARS) and for earlier years the Survey of Prevalent HIV Infections Diagnosed (SOPHID).<sup>2</sup> These data were available up to 2015.

#### **Patient and Public Involvement**

Public and Patients were not involved in the design of this study. Patient data from General Practices were contributed via CPRD and PHE surveillance as stated above.

#### Statistical methods

HIV testing rate, positivity and prevalence of HIV recorded in primary care

We estimated the HIV testing rates for each year between 2000-2015, overall and by patient demographics. Testing rates were estimated for males and females, for all ages and grouped by age (16-44,  $\geq$  45 years). We also estimated rates separately according to whether the practice was in London or not, and by type of location. For each calendar year, the denominator used to calculate the HIV testing rate was the number of patients who were in the CPRD cohort in that year satisfying the following inclusion criteria:

- (i) they were registered before the 30th June of that year
- (ii) they did not transfer to another practice or die before the 30th June of that year
- (iii) they were in the same practice for at least six months
- (iv) they had not previously tested positive for HIV.

The numerator was the number of HIV tests carried out within the relevant year. For each patient in the denominator, the number of tests was calculated, disregarding repeat tests that were within a 3 month period. Any test done or registered more than 90 days after the first recorded positive test was ignored.

As the majority of HIV tests in women are carried out as part of antenatal screening, analyses for females were repeated excluding these tests. We identified women who were pregnant using either delivery dates or Read codes as follows:

- (i) Delivery (birth) dates associated with the females in our data: An HIV test was considered antenatal if it occurred between 3-9 months before the recorded delivery date.
- (ii) Read codes indicating any sign of pregnancy (antenatal): In this case an HIV test was considered antenatal if it occurred within 6 months from the day the Read code was recorded.
- (iii) Read codes associated with the postpartum period: In this case the HIV test was considered antenatal if it occurred within 3-10 months before the corresponding record.
- (iv) Read codes indicating any sign of miscarriage or abortion: An HIV test was recorded as ante-natal if it occurred between 3 months prior to 3 months after the corresponding record.

The Read codes associated with pregnancy are listed in the supplementary material. The antenatal HIV tests were excluded from the numerator and the corresponding patients were removed from the denominator for the relateded period as well.

We plotted the trends in HIV testing rates per 100,000 person years for 2000-2015 separately for men and women (including and excluding ante-natal HIV tests) for all adults and restricted to those aged 16-44 years old. In addition, we calculated the annual proportion of HIV tests that were positive for each year to investigate whether testing improved in terms of targeting during the later years. For the years 2005, 2010 and 2015, we estimated and tabulated HIV testing rates and incidence rate ratios (IRR) with 95% confidence intervals from Poisson models for males and females separately according to whether practice was in London or not, by age, ethnicity, IMD, and by type of location. We compared HIV testing rates recorded in CPRD with those from national surveillance data collected by PHE for 2015<sup>29</sup>. Finally, we estimated the prevalence of diagnosed HIV recorded in CPRD and compared this with estimated prevalence from national surveillance data collected by PHE using SOPHID and HARS. Data analysis was performed using STATA version 14.

#### **RESULTS**

Data were available on 5,979,598 distinct patients with 45,093,761 (males 22,155,768; females 22,937,630) person years of observation. The demographic characteristics of included individuals are shown in Table 1. There were less males (48%) than females (52%). Practices (15%) and individuals (16%) in the most deprived quintile of IMD were under-represented in CPRD. The total number of HIV tests recorded in CPRD between 2000 and 2015 was 159,115 of which 357 (0.2%) were positive.

Trends in HIV testing rates 2000-2015 in primary care

Figure 1 shows the trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing. The main reason for HIV testing among women of child-bearing age was antenatal screening: the testing rates (per 100,000 person-

years) in all women aged 16-44 increased from 177 (95% CI 167-188) in 2000 to 1789 (1757-1821) in 2010 and then decreased to 839 (817, 862) in 2015, with the corresponding figures being 23 (19-26), 262 (250-275) and 190 (179-201) when antenatal testing was excluded. For males the corresponding rates were 26 (22-29), 196 (185-206) and 137 (127-146) in 2000, 2010 and 2015, respectively. For the whole period, HIV testing rates were higher in females than males (figure 1). This was true even when HIV tests carried out as part of antenatal screening were excluded. HIV testing rates in primary care peaked in females in 2010 (figure 1) and have declined markedly since then. In men and women not tested ante-natally, HIV testing rates increased until 2012-2013, but have declined since. Similar patterns were seen when data were restricted to those aged 16-44 years only, except that rates were much higher in younger adults compared with those aged 45 years and over. HIV testing rates with 95% confidence intervals (CI) are listed for all years from 2000-2015 for males, females and females excluding antenatal tests (supplementary table 1 all adults, supplementary table 2 for those aged 16-44 years).

#### Trends in positive HIV diagnosis in primary care

Although the number of HIV tests was much higher in women, more men tested positive: 196/20,328 (0.96%) men compared with 161/138,787 (0.12%) women. This was skewed by a very low rate of positive diagnoses in younger females who were screened ante-natally. The smoothed trend in the percentage of tests that were positive for men and women of different ages is shown in figure 2 (plot of raw data is shown in supplementary\_figure 1). Percentage positive (excluding antenatal tests), was similar in men and women before 2005, but declined more sharply in women thereafter. The percentage of tests that were positive peaked around 2003 and have fallen sharply since 2010, indicating that there is no evidence of better targeting of testing in later years.

HIV testing rates in practices within and outside London, by age and deprivation index
HIV testing rates were two-fold higher in London compared with outside London for both men and
women in 2005 and this differential increased in 2010 and 2015. Table 2 and table 3 give the testing
rates for years 2005, 2010 and 2015 for males and females (excluding antenatal tests), respectively,
stratified by whether the practices were in London or outside London. Data for all years between 2000
and 2015 are given for all adults (supplementary table 1) and for adults aged 16-44 years
(supplementary table 2). In more recent years practices outside London but in conurbations had
higher rates than those in cities or towns, which in turn had higher rates than rural practices. Although
testing rates in men in London practices decreased between 2010 and 2015 overall from 273 (251295) to 246 (225-266) per 100,000 person-years, there was evidence of a shift in targeting of testing

since rates increased in older men from 151 (127-176) to 180 (154-206) per 100,000 person-years and in the most deprived quintile from 415 (351-480) to 565 (487-643) per 100,000 person-years. This targeting effect was also seen among women in London practices, but not in practices outside London. However, in 2015 in London it remained the case that older people were less likely to be tested: incidence rate ratio (IRR) for age  $\geq$  45 compared with 16-44 years was 0.59 (0.50-0.71) for men and 0.46 (0.38-0.55) in women. The corresponding IRR for outside London were much lower: IRR for age  $\geq$  45 compared with 16-44 years was 0.37 (0.32-0.43) in men and 0.18 (0.16-0.21) in women. In contrast, by 2015 the most deprived group were 2- or 3-fold more likely to be tested than the least deprived, depending on gender and locality, with IRR for IMD quintile 5 versus 1 increasing markedly from 2005 through to 2015 (table 2 (males) and table 3 (females)).

HIV testing rates and positivity according to national surveillance data

For comparison, national surveillance data for 2015 estimated that General Practices in extremely high prevalence areas defined as greater than 5/1000 population (comparable with "London" in our CPRD study) carried out the highest number of tests per practice population, 860 per 100 000 person years. This was nearly double the coverage rate of General Practices in high diagnosed prevalence areas defined as greater than 2/1000 population (440/100 000), and ten times the coverage rate among General Practices in low diagnosed prevalence areas (90/100 000). The estimates from surveillance were higher than our estimates from CPRD (table 2 and table 3). The proportion of positive tests among those tested in Primary Care estimated from SSBBV surveillance data was 0.4% in 2015<sup>29</sup>. This varied from 0.5% in very high prevalence areas to 0.2% in low prevalence areas and was consistent with our estimated positivity (figure 2).

Prevalence of recorded HIV in CPRD and comparison with national surveillance estimates

In 2015 the prevalence of diagnosed HIV recorded in CPRD was 2.8 per 1000 adult patients in
London practices and 0.8 per 1000 in the rest of the UK (table 4). According to PHE surveillance, in
2015 HIV prevalence in UK was estimated to be 1.6 per 1000, and excluding undiagnosed HIV was
1.3 per 1000 population.<sup>2</sup> The HIV prevalence in London was estimated to be 4.7 per 1000,
substantially higher than the rest of the UK at 1.1 per 1000. The corresponding observed prevalence,
that is, excluding undiagnosed cases of HIV, was 4.2 and 0.9 per 1000 population in London and the
rest of the UK, respectively.<sup>2</sup> Therefore, only two-thirds of PLWHIV in London were likely known to
General Practice whereas in the rest of the UK this increased to nearly 90%. However, these
percentages are likely to be over-estimated as children aged <16 years were not included in the
CPRD calculations of prevalence but were included in PHE data. If we assume that 20% of the UK

population are aged <16 years old and that only 1000 children are living with HIV, then the prevalence of diagnosed HIV among adults could be as high as 5.1 and 1.2 per 1000 in London and outside London, respectively. The estimated percentage of HIV diagnoses among adults recorded in CPRD may be as low as 55% and 67% in London and the rest of the UK, respectively. In General Practices in London, prevalence of HIV recorded in CPRD was higher for males, older individuals, Black African ethnicity and most deprived quintile (table 4) with a similar pattern in practices outside London except that prevalence did not vary by age.

#### Discussion

Statement of principal findings

Our analysis of CPRD data on GP consultations recorded on approximately 6 million people living in the UK over a 15-year period, shows that the initial rise in HIV testing seen in Primary Care between 2000 and 2010 reversed with a significant drop in the testing rates for HIV in primary care from 2010. This is an unexpected finding as throughout this period prevalence of HIV has been increasing which should have engendered higher rates of testing in Primary Care, given the NICE recommendation to test all new registrants and those with HIV indicator conditions 10,11. HIV testing rates in Primary Care were higher in women than men throughout the study period, even when tests for antenatal screening were excluded, despite HIV prevalence being higher in men. This resulted in men being eight-fold more likely to test positive than women in this setting. Over the 15-year period of the study, there were approximately 2 positive results per 1000 HIV tests. We did not find evidence of better targeting of HIV testing to individuals in more recent years as the percentage of tests that were positive peaked around 2003. Many individuals at high risk of HIV infection may choose to test in settings other than General Practice, such as sexual health clinics, which might make it harder to target HIV testing among the population attending primary care.

The pattern of HIV testing has also changed over time. Testing was two-fold higher in London then elsewhere and has increased in the groups and areas of high deprivation within London. This is reassuring as it also reflects the higher prevalence of HIV in these areas and indicates that HIV testing has become more geographically targeted. Overall, testing rates were higher in urban conurbations and cities than in rural areas reflecting the national prevalence figures<sup>2</sup>. Younger people were more likely to be tested than those aged 45 years and over, which reflects the incidence pattern for HIV. However, our data shows an increasing trend in the rate of testing among the older age group in London, but not elsewhere, which may have been driven by the recognition that among those with HIV infection the proportion diagnosed late is higher in older age groups<sup>30</sup>.

In 2015, the prevalence of HIV recorded in CPRD was over three-fold higher in London than elsewhere, but overall was substantially lower than the prevalence of diagnosed HIV estimated from PHE surveillance<sup>2</sup>. This may be due to HIV-positive individuals not using primary care or to non-disclosure of their HIV status to their GP, not recording of the diagnosis on GP systems, or to CPRD not including sufficient practices with high HIV prevalence. CPRD is broadly representative of Primary Care in the UK, but the UK HIV epidemic is concentrated in cities with approximately half of HIV-positive individuals living in London<sup>2</sup>. The estimated percentage of HIV diagnoses among adults that were recorded in CPRD increased between 2005 and 2015 but was still substantially lower in London than elsewhere. This trend may reflect the ageing HIV population's greater requirement of primary care services, decrease in stigma of disclosure, or better transfer and recording in Primary Care of positive results of HIV tests carried out in other settings in later years.

#### Strengths and weaknesses of the study

This study is very large with data from nearly six million patients followed over fifteen years with detailed primary care records. This detailed coverage enabled us to accurately measure HIV testing rates according to the important factors of deprivation, urbanisation, gender, ethnicity and age. Records were collected prospectively and electronically over a significant time period; therefore, we were able to show clearly the trends that have occurred. Our analysis and the data collection may be biased by several factors. The CPRD only includes a sample of general practices, but this is broadly representative of Primary Care in the UK, and given the large numbers this is a sufficient sample size for estimates of testing rates to be accurate. We have shown the CPRD slightly under represents deprivation, in both individuals and GP practices. Whilst this may be the case, given the very large sample size, we think that we can still draw valuable conclusions from this data. This study can only show the rates of testing in Primary Care. What is clear, given the number of HIV positive patients, is that many patients will have been diagnosed in other healthcare settings. This implies that estimates of the prevalence of diagnosed HIV based on diagnoses recorded in CPRD will be underestimates for the UK which we have shown by comparing with surveillance data from PHE.

Strengths and weaknesses in relation to other studies, discussing important differences in results

Although HIV testing in Primary Care has declined, the rates of late diagnosis (CD4 count less than 350 cells/mL) have also declined from 50% in 2010 to 39% in 2015<sup>31</sup>, indicating a discordancy between the testing in Primary Care and diagnosis. This indicates that increased testing has occurred in other settings. Earlier diagnosis may be due to better detection in secondary care, either from screening or testing those with indicator conditions, or through other routes such as sexual health clinics, insurance requests or specialist testing services. However, we have shown a significant

decline in HIV testing in Primary Care since the previous analysis by Evans *et al* <sup>26</sup> on testing up to 2005, and therefore we can look at increased testing in primary care as an option to improve early HIV detection rates.

Meaning of the study: possible explanations and implications for clinicians and policymakers Since 2015, UK and international treatment guidelines<sup>32</sup> for those diagnosed with HIV recommend immediate treatment with antiretroviral therapy (ART) because of both the START trial 33 showing that delaying therapy was detrimental to individual health and the beneficial effects of treament as prevention (TasP). Therefore, in recent years the majority of new infections will have been transmitted by those who were undiagnosed<sup>34</sup> because most patients who are diagnosed are treated with effective ART and unlikely to transmit HIV.<sup>9,35,36</sup> This change, together with pre-exposure prophylaxis (PrEP), has resulted in a decline in HIV infection rates for for the last 2 years<sup>37</sup>. Nevertheless, there are still opportunities for diagnosing HIV earlier in Primary Care whilst testing rates remain very low. Current UK testing guidelines<sup>37</sup> recommend people attending General Practices in areas of high HIV prevalence should be offered an HIV test at registration or when having a blood test if they have not had an HIV test in the past 12 months. People newly diagnosed with an HIV indicator condition should also be offered an HIV test. The aim is to diagnose HIV earlier as late diagnosis of HIV is associated with increased morbidity and mortality (Sabin et al 2012).7,38,39 Those who are diagnosed late may need acute care in hospital, are less able to benefit from ART, and are more expensive to treat. There are also huge benefits for diagnosing HIV earlier both for the individual in terms of quality of life and life expectancy<sup>6</sup> and a wider societal benefit of reduced transmission and lower NHS treatment costs. Each prevented infection saves an estimated £300,000 in lifetime treatment costs. 39,40 According to PHE surveillance, in 2016, HIV test positivity rates in Primary Care in high (0.5%) and extremely high (0.4%) diagnosed HIV prevalence areas exceeded

#### Unanswered questions and future research

care<sup>37</sup>.

Although it is a public health imperative, and target, to increase HIV testing and diagnosis, it is unclear how this could be implemented in Primary Care. A literature review undertaken of public and Health Care Professional (HCP) attitudes towards HIV testing in the UK showed that a proactive offer of an HIV test by the HCP was an important factor which could help increase testing rates.<sup>23</sup> Reasons for low levels of HIV testing by the HCP include fear/concern of offending patients,

those seen in sexual health services, indicating that more testing should be carried out in primary

inadequate knowledge/training on HIV, low awareness of current testing guidelines, underestimation of patient risk, insufficient time, competing priorities, perceived burdensome consent process and pre-test discussion. Studies indicate a need for education and training on HIV testing for HCP in Primary Care to overcome these barriers to testing. Adequate interventions are needed to address these barriers so individuals can receive a timely HIV test and with it the important treatment benefits and care if found to be HIV positive. HCPs in the UK have opportunities to initiate HIV testing in at-risk individuals and reduce the proportion of undiagnosed infection. Another literature review has provided evidence that HIV indicator conditions have the potential to be used more effectively as triggers for earlier HIV testing. Opt-out testing can facilitate increased HIV testing as has been evident from a trial in emergency care setting. When blood tests are carried out for any reason in primary care, there could also be an opt-out HIV test. Computer prompts based on risk algorithms are another strategy to support HIV testing.

Although the results shown here are for a UK based population the methodology may be applicable to other healthcare systems. They provide accurate testing rates and detection rates in Primary Care which are measures of HIV testing that can be used for international comparisons. The knowledge that earlier treatment (START study<sup>33</sup>) and the impact of treatment on reducing transmission (UK PHE data<sup>37</sup>), combined with the clear reduction in patient mortality and cost with avoidance of late and very late diagnosis, mean that it is essential to diagnose HIV as early as possible. A key part of this is the testing in primary care, based on a screening strategy or indicator conditions. These data inform us of the current situation on testing and will be useful in planning and evaluating interventions to improve this.

The data on the discrepancy between PHE and CPRD prevalence of HIV positive status being recorded is another finding of importance for planning. There are now new testing strategies such as home test and rapid testing outside of standard health care settings which may contribute to the decrease in testing in Primary Care. These need to have a strategy in their delivery to feed back to Primary Care to maximise the benefits to patients and their health networks.

#### Conclusions

HIV testing rates have declined in Primary Care in all age groups, although there has been a fall in late presentation. HIV testing rates are highest in London, and higher in urban areas than rural areas.

Adherence to HIV testing guidelines<sup>10,11,17</sup> would likely increase the number of positive tests and help prevent late diagnosis. Further interventions to increase selectivity of testing (positive cases per test) may be required, either at the individual level using risk factors and HIV indicator conditions or at the practice level using knowledge of local HIV prevalence.

#### **Contributor and guarantor information**

MG and MM planned the research study and were responsible for study design. JM and TJ advised on study design. CD applied for ethics approval and did the literature search. TJ and CD obtained data from CPRD and helped with coding and extracting data. SM was responsible for statistical analyses, tables and graphs. MM, SM and MG wrote the first draft of the paper. All authors contributed to writing and revising the paper and agreed to submission. MM acts as guarantor for the conduct of the study, had full access to the data and made decision to publish.

#### **Ethics approval**

The protocol was submitted to and approved by the independent scientific advisory committee for the CPRD (protocol ISAC number 16\_172A). The study was approved by the South West, Frenchay, Research Ethics Committee on the 19/09/2016 (REC reference 16/SW/0286).

#### **Transparency statement**

Margaret May affirms that the manuscript is an honest, accurate and transparent account of the study, and that no important aspects of the study have been omitted. The sponsor had no role in research or decision to publish.

#### **Competing Interests statement**

No authors have any competing interests.

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#### **Data sharing**

No additional data available as use of the data was licensed by CPRD and therefore cannot be shared further.

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Table 1: Patient and practice demographics

Demographic Variable	Group	Frequency	Percentage (%)
Gender	Males	2,871,884	48.03
	Females	3,107,562	51.97
	Other/Unknown	152	0.00
Age (in 2015)	16-44	2,684,443	44.89
	>44	3,295,155	55.11
Ethnicity	Asian	147,295	2.46
	Black African	45,632	0.76
	Black Caribbean	28,558	0.48
	Other	118,934	1.99
	White	3,328,189	55.66
	Unknown	2,310,990	38.65
Region	Outside London	4,693,116	78.49
	London	1,129,924	18.90
	Unknown	156,558	2.62
Urban/Rural	Urban(Conurbation)	2,134,497	35.70
	Urban(City/Town)	2,991,079	50.02
	Rural	697,452	11.66
	Unknown	156,558	2.62
Patient IMD (2015)	Quintile 1	1,285,213	21.49
1=least deprived,, 5=most deprived	Quintiles 2,3,4	3,564,936	59.62
	Quintile 5	964,853	16.14
	Unknown	164,596	2.75
Practice IMD (2015)	Quintile 1	1,249,293	20.89
1=least deprived,, 5=most deprived	Quintiles 2,3,4	3,702,313	61.92
	Quintile 5	871,434	14.57
	Unknown	156,558	2.62

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Table 2: Testing rates (per 100,000 person years) for **males** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015.

				London			9		
		2005			2010		24	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Ra <del>te</del> (95% CI)	IRR (95% CI)	p-valu
Overall	133 (117, 148)	-	-	273 (251, 295)	-	-	24&(225, 266)	-	-
Age							me		
16-44	175 (151, 198)	1	<0.0001	366 (333, 400)	1	<0.0001	30 (272, 336)	1	<0.000
>=45	75 (56, 93)	0.43 (0.33, 0.56)	<0.0001	151 (127, 176)	0.41 (0.34, 0.50)	<0.0001	180 (154, 206)	0.59 (0.50, 0.71)	<0.000
Ethnicity							016		
White	102 (80, 125)	1		240 (206, 275)	1		222 (187, 256)	1	
Asian	152 (73, 232)	1.49 (0.85, 2.62)	0.0004	329 (220, 438)	1.37 (0.95, 1.96)	.0.0004	162 (88, 247)	0.76 (0.47, 1.22)	.0.00
Black African	669 (361, 977)	6.53 (3.93, 10.85)	<0.0001	1227 (849, 1605)	5.10 (3.63, 7.18)	<0.0001	919 (602, 1236)	4.15 (2.84, 6.06)	<0.000
Black Caribbean	216 (432, 389)	2.11 (0.92, 4.82)		361 (148, 574)	1.50 (0.82, 2.76)		52%(267, 779)	2.36 (1.42, 3.95)	
Patient IMD (2015)*							ed		
Quintile 1	160 (119, 202)	1		207 (159, 254)	1		20英(153, 248)	1	
Quintiles 2,3,4	120 (102, 139)	0.75 (0.56, 1.01)	0.0912	252 (226, 279)	1.22 (0.95, 1.57)	< 0.0001	17월(155, 198)	0.88 (0.68, 1.14)	<0.000
Quintile 5	155 (114, 195)	0.96 (0.67, 1.40)		415 (351, 480)	2.01 (1.53, 2.65)		565(487, 643)	2.82 (2.16, 3.68)	
		· · · · · · · · · · · · · · · · · · ·		Outside Lond			<del>                                      </del>		
		2005			2010		) Dn	2015	
	Rate (95% CI)	IRR (95% C.I.)	p-value	Rate (95% CI)	IRR (95% C.I.)	p-value	Race (95% CI)	IRR (95% C.I.)	p-valu
Overall	65 (60, 70)	· -		106 (100, 112)		· -	64 (60, 69)	` -	٠.
Age	` , ,			. , ,			J.b.		
16-44	95 (87, 103)	1		161 (150, 172)	1		100 (91, 109)	1	
>=45	34 (29, 39)	0.36 (0.30, 0.42)	<0.0001	54 (48, 60)	0.34 (0.30, 0.38)	<0.0001	3 (32, 42)	0.37 (0.32, 0.43)	<0.00
Ethnicity	, , ,	, , ,		, , ,			<b>D</b> , , ,	, , ,	
White	63 (57, 69)	1		100 (92, 108)	1		63 (57, 70)	1	
Asian	159 (89, 229)	2.52 (1.61, 3.94)		336 (245, 427)	3.36 (2.55, 4.44)		20(135, 266)	3.16 (2.25, 4.45)	
Black African	579 (221, 937)	9.17 (4.90, 17.16)	<0.0001	1321 (859, 1783)	13.24 (9.23, 18.97)		584(289, 878)	9.22 (5.51, 15.44)	
Black Caribbean	185 (37, 366)	2.93 (1.09, 7.83)		506 (156, 856)	5.06 (2.86, 8.96)		202 (25, 379)	3.19 (1.32, 7.70)	
Patient IMD (2015)*		(,,		(===, ===,	(=:==)		20	(=:==, : :: =,	
Quintile 1	60 (51, 69)	1		98 (87, 110)	1		6 <u>♣</u> (52, 70)	1	
Quintiles 2,3,4	60 (54, 66)	1.0 (0.84, 1.20)	0.0002	94 (87, 101)	0.96 (0.83, 1.10)	<0.0001	5 <del>3</del> (48, 59)	0.87 (0.73, 1.04)	<0.00
Quintile 5	89 (75, 104)	1.49 (1.20, 1.86)	0.000	163 (145, 182)	1.66 (1.41, 1.96)		16 (99, 131)	1.89 (1.55, 2.31)	.5.50
Urban/Rural class	33 (73, 104)	1.13 (1.20, 1.00)		103 (113, 102)	2.00 (2.12, 2.50)			1.55 (1.55, 2.51)	
	65 (55, 76)	1		144 (129, 159)	1		91 <del>u</del> (79, 102)	1	
Conurbation	05 (55, 75)	<del>-</del>			0.70 (0.61, 0.79)	<0.0001	69 (54, 65)	0.66 (0.56, 0.77)	<0.00
Conurbation City/Town	69 (63, 75)	1.05 (0.88, 1.26)	0.0045	100 (93, 107)	0 /0 00 61 0 /91			יייט מכטוממט	

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Table 3: Testing rates (per 100000 person years) for **females** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015 (antenatal testing oxelydad) excluded)

excluded)				Lond			on 2		
		2005		Lond	2010		<del>4</del> Z	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value
Overall	139 (123, 155)	-	-	309 (285, 332)	-	-	243 (223, 264)	-	-
Age	133 (123, 133)			303 (203, 332)			be 3, 20 1,		
16-44	216 (189, 242)	.1		479 (440, 517)	1		327 ( <b>29</b> 5, 360)	1	
>=45	39 (26, 52)	0.18 (0.13, 0.26)	<0.0001	93 (74, 112)	0.19 (0.16, 0.24)	< 0.0001	150 (127, 173)	0.46 (0.38, 0.55)	<0.000
Ethnicity	05 (20, 52,	0.10 (0.13) 0.20)		33 (7.1) 1111/	0.13 (0.10) 0.1 . ,			0.10 (0.00) 0.00)	
White	120 (100, 140)	1		270 (239, 301)	1		170 (\$44, 195)	1	
Asian	199 (117, 280)	1.65 (1.09,2.51)		261 (183, 339)	0.97 (0.70, 1.33)		190 (\$\frac{1}{2}6, 254)	1.12 (0.78, 1.62)	
Black African	415 (234, 596)	3.46 (2.21 5.43)	<0.0001	825 (602, 1048)	3.06 (2.29, 4.08)	<0.0001	728 (527, 929)	4.30 (3.13, 5.87)	<0.000
Black Caribbean	248 (96, 400)	2.06 (1.15, 3.72)		438 (260, 617)	1.63 (1.06, 2.48)		399 (221, 578)	2.35 (1.50, 3.70)	
Patient IMD (2015)*	(,,	(, , ,,		(200, 021,	(,,		i ( <u></u> ,	(,,	
Quintile 1	153 (112, 194)	1		172 (130, 215)	1		156 ( <del>1</del> 15, 197)	1	
Quintiles 2,3,4	125 (106, 143)	0.82 (0.60, 1.10)	0.0278	284 (258, 311)	1.65 (1.27, 2.14)	< 0.0001	195 (#73, 218)	1.25 (0.95, 1.66)	<0.000
Quintile 5	183 (138, 227)	1.19 (0.84, 1.71)		539 (463, 615)	3.13 (2.37, 4.14)		520 (448, 592)	3.33 (2.50, 4.46)	
	( , ,	- ( , ,		Outside I			<u> </u>	( , ,	
		2005			2010		9	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Rate \$95% CI)	IRR (95% CI)	p-value
Overall	67 (62, 71)	-	-	117 (111, 123)	1/0	-	83 (38, 89)	-	
Age							j.c		
16-44	118 (108, 127)	1	.0.0004	216 (204, 229)	1	-0.0004	160 ( <del>1</del> 48, 171)	1	-0.000
>=45	21 (17,24)	0.18 (0.15, 0.21)	<0.0001	34 (29, 38)	0.16 (0.14, 0.18)	<0.0001	29 (25, 33)	0.18 (0.16, 0.21)	<0.000
Ethnicity							<u> </u>		
White	67 (61, 72)	1		117 (110, 125)	1		77 🔄 1, 83)	1	
Asian	188 (123, 252)	2.82 (2.01, 3.95)	40.0001	357 (284, 430)	3.04 (2.46, 3.77)	<0.0001	207 (155, 259)	2.69 (2.07, 3.50)	40,000
Black African	515 (270, )	7.33 (4.77, 12.53)	<0.0001	829 (563, 1094)	7.07 (5.13,9.73)	<0.0001	432 (249, 616)	5.63 (3.71, 8.53)	<0.000
Black Caribbean	235 (61, 409)	3.53 (1.68, 7.44)		778 (468, 1087)	6.63 (4.49, 9.79)		489 (🏖 7, 721)	6.36 (3.93, 10.30)	
Patient IMD (2015)*							4		
Quintile 1	64 (54, 73)	1		95 (84, 106)	1		71 (§1, 81)	1	
Quintiles 2,3,4	61 (55, 67)	0.97 (0.81, 1.15)	0.0001	95 (88, 102)	1.00 (0.87, 1.15)	< 0.0001	72 ( <b>5</b> 5, 78)	1.01 (0.86, 1.19)	<0.000
Quintile 5	92 (77, 107)	1.45 (1.17, 1.79)		241 (218, 265)	2.54 (2.19, 2.95)		152 ( <b>‡</b> 34, 170)	2.15 (1.80, 2.57)	
Urban/Rural class							Pr		
Conurbation	54 (45, 64)	1		165 (148, 181)	1		120 (\$\overline{\	1	
City/Town	72 (66, 78)	1.33 (1.10, 1.60)	0.0078	108 (101, 116)	0.66 (0.59, 0.74)	< 0.0001	77 (20, 83)	0.64 (0.56, 0.74)	<0.000
Rural	62 (50, 74)	1.15 (0.89, 1.47)		85 (71, 99)	0.52 (0.43, 0.62)		60 ( <del>2</del> 8, 72)	0.50 (0.40, 0.62)	

<sup>\*1=</sup>least deprived - 5=most deprived

Table 4: Prevalence (with 95% CI) of diagnosed HIV recorded in CPRD (per 100,000 persons) by gender, age, ethnicity and patient IMD, for London and outside London.

	Lone	don	
		Prevalence (95% CI)	
	2005	2010	2015
All	140 (129, 151)	230 (216, 244)	282 (267, 297)
Gender			
Males	191 (172, 209)	294 (271, 317)	369 (344, 395)
Females	91 (78, 103)	170 (153, 187)	199 (181, 217
Age			
16-44	168 (152, 184)	234 (215, 253)	229 (210, 249)
>44	103 (88, 117)	226 (205, 247)	341 (316, 365)
Ethnicity			
White	127 (112, 143)	183 (164, 202)	224 (202, 246)
Asian	45 (17, 72)	84 (50, 119)	96 (60, 131)
Black African	1465 (1205, 1726)	2350 (2055, 2646)	2597 (2294, 2899
Black Caribbean	195 (97, 294)	431 (291, 572)	538 (381, 695)
Patient IMD (2015)			
Quantile 1	32 (19, 45)	86 (65, 107)	121 (96, 146)
Quantiles 2,3,4	136 (122, 149)	212 (195, 228)	256 (238, 274)
Quantile 5	268 (230, 306)	444 (397, 491)	544 (492, 596)
	Outside	London	
		Prevalence (95% CI)	
	2005	2010	2015
All	38 (36, 41)	64 (61, 67)	81 (77, 85)
Gender			
Males	50 (46, 54)	81 (76, 86)	105 (99, 110)
Females	26 (23, 29)	48 (44, 52)	58 (54, 62)
Age			
16-44	55 (51, 59)	78 (72, 83)	82 (76, 87)
>44	22 (19, 25)	52 (48, 56)	80 (76, 85)
Ethnicity			
White	29 (26, 32)	46 (43, 50)	60 (56, 64)
Asian	37 (16, 59)	40 (21, 59)	55 (34, 76)
Black African	2537 (2110, 2964)	3663 (3236, 4091)	3933 (3514, 4353
Black Caribbean	135 (35, 236)	347 (195, 499)	484 (308, 660)
Patient IMD (2015)			
Quantile 1	19 (16, 23)	31 (26, 35)	42.58 (37, 48)
Quantiles 2,3,4	35 (32, 38)	60 (56, 65)	77 (72, 81)
Quantile 5	82 (72, 91)	132 (121, 144)	159 (146, 172)

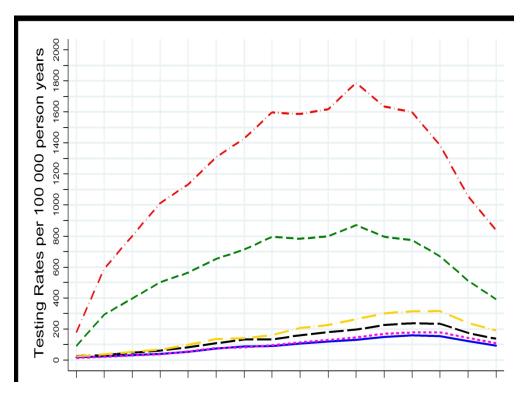


Figure 1: Trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)

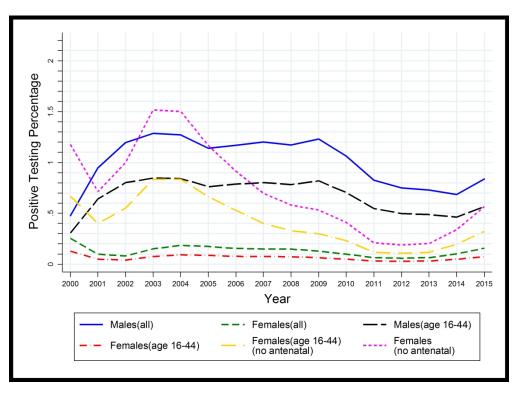
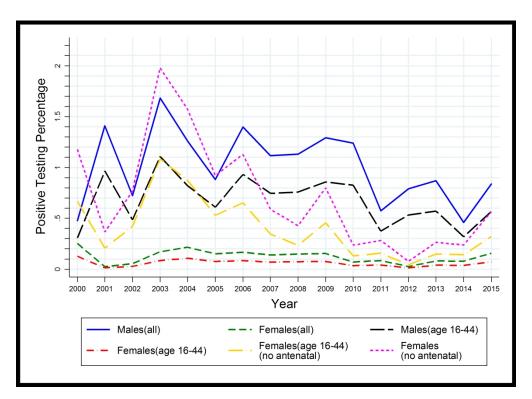


Figure 2: Trend in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)



Supplementary figure: Trend (unsmoothed graph) in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)

### Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

#### **Supplementary tables**

Supplementary table 1: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults >16 years).

Males, all			Females, all			Females, excluding antenatal			
Year	N	Rate	95% C.I.	N	Rate	95% C.I.	N	Rate	95% C.I.
2000	1277056	16.4	(14.2 , 18.7)	1332528	89.0	(83.9 , 94.1)	1331517	12.8	(10.8 , 14.7)
2001	1299140	21.9	(19.3 , 24.4)	1352604	293.1	(283.9 , 302.3)	1348950	20.2	(17.8 , 22.7)
2002	1317701	31.4	(28.3 , 34.5)	1367949	396.3	(385.7 , 406.9)	1363158	28.7	(25.8 , 31.6)
2003	1341378	39.9	(36.5 , 43.3)	1388107	501.9	(490.0,513.7)	1382140	36.5	(33.3 , 39.8)
2004	1359662	52.5	(48.6 , 56.4)	1403681	563.0	(550.5 , 575.5)	1397351	54.7	(50.7 , 58.7)
2005	1374451	74.2	(69.6 , 78.8)	1418325	653.1	(639.7 , 666.6)	1411272	77.0	(72.3 , 81.6)
2006	1390451	87.5	(82.5 , 92.4)	1433622	711.6	(697.7 , 725.6)	1426111	80.9	(76.0 , 85.7)
2007	1405428	89.4	(84.3 , 94.4)	1447828	795.2	(780.5 , 809.9)	1439651	94.3	(89.1 , 99.4)
2008	1409645	106.6	(101.1 , 112.1)	1455081	781.9	(767.4 , 796.5)	1447676	113.1	(107.4 , 118.7)
2009	1418613	120.0	(114.3 , 125.8)	1463654	797.9	(783.2 , 812.6)	1456530	128.6	(122.6 , 134.6)
2010	1424751	130.2	(124.2 , 136.2)	1470650	870.7	(855.4 , 886.0)	1463009	145.3	(139.0 , 151.6)
2011	1421140	147.2	(140.8 , 153.6)	1474837	795.9	(781.2 , 810.5)	1468256	169.0	(162.1 , 175.8)
2012	1427981	159.5	(152.9 , 166.2)	1482930	772.8	(758.4 , 787.1)	1476875	176.7	(169.7 , 183.6)
2013	1430211	152.9	(146.4 , 159.4)	1486620	669.5	(656.2 , 682.9)	1481702	178.9	(171.9 , 185.9)
2014	1436279	121.6	(115.8 , 127.4)	1487194	511.7	(500.1,523.4)	1483581	141.8	(135.6 , 148.1)
2015	1421880	92.5	(87.4 , 97.6)	1472023	391.5	(381.2 , 401.7)	1469400	108.4	(103.0, 113.9)

Supplementary table 2: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults aged 16-44 years).

	Males, all				Females, all				Females, excluding antenatal		
Year	N	Rate	95% C.I.	N	Rate	95% C.I.	N	Rate	95% C.I.		
2000	671088	25.5	(21.6 , 29.4)	655488	177.4	(167.2 , 187.7)	654477	22.5	(18.8 , 26.1)		
2001	681216	31.9	(27.6 , 36.2)	665358	589.8	(571.2 , 608.3)	661708	35.8	(31.2 , 40.4)		
2002	688746	46.8	(41.5,52.0)	672213	799.5	(778.0,821.0)	667427	52.3	(46.7 , 57.8)		
2003	698982	60.5	(54.7,66.4)	681748	1012.9	(989.0 , 1036.9)	675788	66.7	(60.5 , 73.0)		
2004	706120	80.9	(74.1 , 87.6)	688504	1132.5	(1107.2 , 1157.8)	682186	98.4	(90.7 , 106.1)		
2005	710489	107.4	(99.7 , 115.1)	694232	1308.9	(1281.8 , 1335.9)	687190	134.0	(125.2 , 142.8)		
2006	714842	131.1	(122.6 , 139.6)	700086	1428.5	(1400.4 , 1456.7)	692589	139.8	(130.7 , 148.8)		
2007	717434	133.5	(124.9 , 142.2)	704167	1598.2	(1568.4 , 1627.9)	696009	160.6	(151.0 , 170.3)		
2008	711542	159.1	(149.7 , 168.5)	702985	1586.6	(1556.9 , 1616.3)	695600	206.5	(195.4 , 217.5)		
2009	708782	181.0	(170.9 , 191.1)	700970	1618.4	(1588.3 , 1648.5)	693867	225.9	(214.3 , 237.4)		
2010	702732	195.7	(185.2 , 206.2)	696368	1789.0	(1757.3 , 1820.6)	688743	262.4	(250.0 , 274.7)		
2011	690732	225.9	(214.5 , 237.2)	689820	1636.2	(1605.6 , 1666.7)	683258	301.1	(287.7 , 314.5)		
2012	685037	236.9	(225.3 , 248.6)	685234	1598.0	(1567.8 , 1628.2)	679201	313.2	(299.6 , 326.8)		
2013	675812	232.6	(221.0 , 244.2)	677984	1385.4	(1357.0 , 1413.7)	673088	315.1	(301.4 , 328.9)		
2014	668263	174.8	(164.6 , 185.0)	667048	1056.2	(1031.2 , 1081.2)	663464	238.6	(226.5 , 250.8)		
2015	639033	136.6	(127.4 , 145.9)	638248	839.3	(816.5 , 862.1)	635636	190.1	(179.0, 201.1)		

Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 

#### **Supplementary Material**

Page 2 Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans et al 2009<sup>26</sup>)

elivery/Abortion medc. Page 3 Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans et al 2009<sup>26</sup>).

Page 4 Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson et al 50)

Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans et al 2009<sup>26</sup>)

	READ/		Certainty of
Code	OXMIS	Code description	HIV+ test
6827.11	READ	HIV screening	Definite
43C00	READ	HTLV-3 antibody test	Definite
43C11	READ	Aids antibody test	Definite
43C12	READ	Human immunodefic.viral test	Definite
43C1.00	READ	Blood sent for HTLV-3 serology	Definite
43C2.00	READ	HTLV-3 antibody negative	Definite
43C2.11	READ	HIV negative	Definite
43CZ.00	READ	HTLV-3 antibody NOS	Definite
43d5.00	READ	HIV antibody/antigen (Duo)	Definite
43d6.00	READ	HTLV 1 antibody level	Ambiguous
43dc.00	READ	HTLV 2 antibody level	Ambiguous
43h2.00	READ	HIV 1 PCR	Definite
43j7.00	READ	HIV 1 nucleic acid detection	Definite
43V1.00	READ	Absolute CD4 count	Definite
43VE.00	READ	CD4/CD8 ratio	Definite
43VH.00	READ	Percentage CD4 count	Definite
43Vo.00	READ	Absolute CD4 (T4 cells) count	Definite
43Vp.00	READ	Percentage CD4 (T4 cells) count	Definite
43W7.00	READ	HIV1 antibody level	Definite
43W8.00	READ	HIV2 antibody level	Definite
43WK.00	READ	Human immunodeficiency virus antibody level	Definite
4J34.00	READ	HIV viral load	Definite
4J35.00	READ	HIV p24 antigen level	Definite
4JDT.00	READ	HIV serology	Definite
4JR7.00	READ	HIV screening test	Definite
62b00	READ	Antenatal HIV screening	Definite
6827.00	READ	AIDS (HTLV-III) screening	Definite
		[D]Laboratory evidence of human immunodefiency virus	
R109.00	READ	[HIV]	Definite
ZV01800	READ	[V]Human immunodeficiency virus - negative	Definite
		[V]Special screening exam for human immunodefiency	
ZV73700	READ	virus	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
L 153	OXMIS	HTVL-AIDS-III ANTIBODY TEST	Definite
L1111NE	OXMIS	HIV ANTIBODY TEST NEGATIVE	Definite
L 153N	OXMIS	HTVL-AIDS-III ANTIBODY TEST NEGATIVE	Definite
65VE.00	READ	Notification of AIDS	Ambiguous
43j8.00	READ	HTLV 1 nucleic acid detection	Ambiguous

Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans *et al* 2009<sup>26</sup>).

atients who	Read/	HIV positive status recorded in primary care (Evans <i>et al</i> 2009 <sup>2</sup>	Certainty of
Code	OXMIS	Code description	HIV+ status
65QA.00	READ	AIDS carrier	Definite
A789700	READ	HIV disease resulting other ypes of non-Hodgkin's lymphoma	Definite
A789800	READ	HIV disease resulting other ypes of non-nodgkin's lymphoma  HIV disease resulting in multiple malignant neoplasms	Definite
A783800 A788.00	READ	Acquired immune deficiency syndrome	Definite
A788500	READ		Definite
		Human immunodeficiency virus with secondary infection	
A788X00	READ	HIV disease resulting/unspcf infectious+parasitic disease	Definite
A789200	READ	HIV disease resulting in candidiasis	Definite Definite
A789500	READ	HIV disease resulting in Kaposi's sarcoma	
AyuC100	READ	[X]HIV disease resulting in other viral infections	Definite
AyuC700	READ	[X]HIV dis reslt/oth mal neopl/lymph,h'matopoetc+reltd tissu	Definite
A788000	READ	Acute human immunodeficiency virus infection	Definite
A788100	READ	Asymptomatic human immunodeficiency virus infection	Definite
A789300	READ	HIV disease resulting in Pneumocystis carinii pneumonia	Definite
A789600	READ	HIV disease resulting in Burkitt's lymphoma	Definite
A798.00	READ	Retrovirus infection	Definite
AyuC200	READ	[X]HIV disease resulting in other mycoses	Definite
AyuCA00	READ	[X]HIV disease resulting in multiple diseases CE	Definite
		HIV disease result/haematological+immunologic	
A788U00	READ	abnorms,NEC	Definite
A789.00	READ	Human immunodef virus resulting in other disease	Definite
AyuC000	READ	[X]HIV disease resulting in other bacterial infections	Definite
AyuC800	READ	[X]HIV disease resulting in other malignant neoplasms	Definite
43C3.11	READ	HIV positive	Definite
A788y00	READ	Human immunodeficiency virus with other clinical findings	Definite
Eu02400	READ	[X]Dementia in human immunodef virus [HIV] disease	Definite
		[V]Asymptomatic human immunodeficency virus infection	
ZV01A00	READ	status	Definite
A789400	READ	HIV disease resulting in multiple infections	Definite
AyuC500	READ	[X]HIV disease resulting/unspcf infectious+parasitic disease	Definite
AyuC900	READ	[X]HIV disease resulting in unspecified malignant neoplasm	Definite
AyuCC00	READ	[X]HIV disease resulting in other specified conditions	Definite
43C3.00	READ	HTLV-3 antibody positive	Definite
A788W00	READ	HIV disease resulting in unspecified malignant neoplasm	Definite
A789X00	READ	HIV dis reslt/oth mal neopl/lymph,h'matopoetc+	Definite
AyuC300	READ	[X]HIV disease resulting in multiple infections	Definite
AyuC400	READ	[X]HIV disease resulting/other infectious+parasitic diseases	Definite
AyuC600	READ	[X]HIV disease resulting in other non-Hodgkin's lymphoma	Definite
A788600	READ	Human immunodeficiency virus with secondary cancers	Definite
		Acquired human immunodeficiency virus infection syndrome	
A788z00	READ	NOS	Definite
A789A00	READ	HIV disease resulting in wasting syndrome	Definite
65VE.00	READ	Notification of AIDS	Definite
A788.11	READ	Human immunodeficiency virus infection	Definite
A788200	READ	HIV infection with persistent generalised lymphadenopathy	Definite
A788300	READ	Human immunodeficiency virus with constitutional disease	Definite
A788400	READ	Human immunodeficiency virus with neurological disease	Definite

### Appendix 2 (CONT'D): Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care.

	Read/		Certainty of
Code	OXMIS	Code description	HIV+ status
A788V00	READ	HIV disease resulting in multiple diseases CE	Definite
A789100	READ	HIV disease resulting in cytomegaloviral disease	Definite
AyuC.00	READ	[X]Human immunodeficiency virus disease	Definite
AyuCD00	READ	[X]Unspecified human immunodeficiency virus [HIV] disease	Definite
A789000	READ	HIV disease resulting in mycobacterial infection	Definite
A789900	READ	HIV disease resulting in lymphoid interstitial pneumonitis	Definite
AyuCB00	READ	[X]HIV disease result/haematological+immunologic abnorms,NEC	Definite
R109.00	READ	[D]Laboratory evidence of human immunodefiency virus [HIV]	Definite
ZV01A00	READ	[V]Asymptomatic human immunodeficency virus infection status	Definite
799MD	OXMIS	AIDS	Definite
799CA	OXMIS	AIDS CARRIER	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L7990A	OXMIS	ACQUIRED IMMUNE DEFICIENCY SYNDROME	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
43V1.00	READ	Absolute CD4 count	Ambiguous
AyuD800	READ	[X]Retrovirus infections, not elsewhere classified	Ambiguous
AyuKM00	READ	[X]Retrovirus/cause of diseases classified to other chapters	Ambiguous
43VE.00	READ	CD4/CD8 ratio	Ambiguous
A7y0100	READ	Retrovirus as cause of diseases classified to other chapters	Ambiguous
43VH.00	READ	Percentage CD4 count	Ambiguous
4J34.00	READ	HIV viral load	Ambiguous
4J35.00	READ	HIV p24 antigen level	Ambiguous
43h2.00	READ	HIV 1 PCR	Ambiguous
43j7.00	READ	HIV 1 nucleic acid detection	Ambiguous
43Vo.00	READ	Absolute CD4 (T4 cells) count	Ambiguous
43Vp.00	READ	Percentage CD4 (T4 cells) count	Ambiguous

### Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson et al 50)

medcode	readcode	readterm
52685	ZV23000	[V]Pregnancy with history of infertility
3030	4654	Urine pregnancy test positive
73535	L13z100	Unspecified pregnancy vomiting - delivered
53514	Z22D300	Uncertain viability of pregnancy
11422	Z226.00	Pregnancy problem
20623	ZV4J000	[V]Problems related to unwanted pregnancy
99247	L13y200	Other pregnancy vomiting - not delivered
56451	L13zz00	Unspecified pregnancy vomiting NOS
14644	L166z11	UTI - urinary tract infection in pregnancy
32975	6166	Pregnant, diaphragm failure

	1 765 00	Small-tor-dates tetus in pregnancy
23495 3766	L265.00 L1000	Small-for-dates fetus in pregnancy  Haemorrhage in early pregnancy
56953	Z235400	Pendulous pregnant abdomen
40279	7E19012	Fimbrial extraction of tubal pregnancy
29122	7E19012	Removal of ectopic pregnancy from fallopian tube
1748	7E08400	Suction termination of pregnancy
106170	L21zz00	Multiple pregnancy NOS
5357	7E08500	Dilation of cervix and extraction termination of pregnancy
14899	621Z.00	Patient pregnant NOS
61563	L161300	Oedema or excessive weight gain in pregnancy - not delivered
64523	L091z00	Delayed/excess haemorrhage NOS following abortive pregnancy
20621	ZV25313	[V]Admission for termination of pregnancy
20021	ZV25313 ZV25311	[V]Admission for termination of pregnancy (TOP)
		, , ,
	•	·
		, , ,
	•	
54866	L030.00	
38882	L123600	
61995	L03yz00	
5044	13H7.00	Unwanted pregnancy
	Z22AD11	
38882 61995	L263A11 6174 L1500 Q0z00 L13y.00 L123000 L168400 L093.00 9mK0.00 6294 L181100 L030.00 L123600 L03yz00 13H7.00	Glycosuria during pregnancy - delivered Liver disorder in pregnancy - not delivered Incomplete termination of pregnancy Pregnancy advice NOS Fetal death due to termination of pregnancy Pertussis vaccination in pregnancy Serum pregnancy associated plasma protein-A MoM measurement Delayed/excessive haemorrhage following abortive pregnancy Post-term pregnancy NOS Triplet pregnancy NOS Undiagnosed pregnancy Iron deficiency anaemia of pregnancy Triplet pregnancy unspecified Low risk pregnancy Pregnancy associated plasma protein A level Maternal care for reduced fetal heart rate during pregnancy Pregnant, sheath failure Prolonged or post-term pregnancy Maternal problem unrelated preg affecting fetus/neonate NOS Other pregnancy vomiting Transient hypertension of pregnancy unspecified Fatigue during pregnancy with postnatal complication Renal failure following abortive pregnancy Pertussis vaccination in pregnancy invitation first letter No A/N care: not known preg. Thyroid dysfunction during pregnancy - baby delivered Abdominal pregnancy Transient hypertension of pregnancy Other ectopic pregnancy NOS Unwanted pregnancy Reported conception - pregnancy

21467	L03y200	Membranous pregnancy
48304	L10z200	Early pregnancy haemorrhage NOS - not delivered
37693	13Hd.00	Teenage pregnancy
27980	L166700	Infections of the genital tract in pregnancy
2638	L100	Pregnancy complications
99933	L092100	Bowel damage following abortive pregnancy
41122	L10zz00	Early pregnancy haemorrhage NOS
37348	Lyu2500	[X]Other specified pregnancy-related conditions
96757	L411513	Vulval varices in pregnancy
59634	L411513	Vaginal varices in pregnancy
99237	L411512	Perineal varices in pregnancy
27451	L166000	Genitourinary tract infection in pregnancy unspecified
110129	6556000	Pertussis vacc in pregnancy given by other healthcre providr
107485	Q014000	Fetus or neonate affected by unspecified ectopic pregnancy
18258	L167.00	Liver disorder in pregnancy
42015	L167.00	Other pregnancy complications
25028	L09z.00	Complication NOS following abortion/ectopic/molar pregnancy
44734	6208.00	Pregnancy prolonged - 42 weeks
23831	ZV22y00	[V]Other specified pregnant state
41587	L210z00	Twin pregnancy NOS
24063	6207.00	Pregnancy prolonged - 41 weeks
44650	L0y00	Other specified pregnancy with abortive outcome
61284	L210200	Twin pregnancy with antenatal problem
54288	Z22D311	Query viability of pregnancy
34938	L212.00	Quadruplet pregnancy
102494	8Hh3.00	Self referral to termination of pregnancy service
		. 9 .
	•	5 ,
		Multiple pregnancy
53921	L161000	
44770	L191.00	
29205	4453	Serum pregnancy test positive
46577	66AX.00	Diabetes: shared care in pregnancy - diabetol and obstet
73455	Q015200	Fetus or neonate affected by triplet pregnancy
41625	L13yz00	Other pregnancy vomiting NOS
60345	M240500	Alopecia of pregnancy
	115V.00	No history of ectopic pregnancy
1686 70214 64247 23751 39359 64500 73917 255 15433 20439 16775 53921 44770 29205 46577 73455 41625	7E08600 L21z100 Z235.00 L266.00 L385.00 L183.11 L10y200 L0512 L2100 L123.00 L16E.00 L161000 L191.00 4453 66AX.00 Q015200 L13yz00 M240500	Termination of pregnancy NEC  Multiple pregnancy NOS - delivered  Observation of shape of pregnant abdomen  Large-for-dates fetus in pregnancy  Failed or difficult intubation during pregnancy  Pregnancy and drug dependence  Other haemorrhage in early pregnancy - not delivered  Termination of pregnancy  Multiple pregnancy  Transient hypertension of pregnancy  Pregnancy pruritus  Oedema or excessive weight gain in pregnancy, unspecified  Continuing pregnancy after abortion of one fetus or more  Serum pregnancy test positive  Diabetes: shared care in pregnancy - diabetol and obstet  Fetus or neonate affected by triplet pregnancy  Other pregnancy vomiting NOS  Alopecia of pregnancy

6580	ZV23800	[V]Supervision of high-risk pregnancy due to social problems
61182	L211100	Triplet pregnancy - delivered
30365	Z22AA00	Wanted pregnancy
26852	ZV23400	[V]Pregnancy with other poor obstetric history
30817	6212	Pregnant - blood test confirms
72014	L212z00	Quadruplet pregnancy NOS
12521	L161.11	Excessive weight gain in pregnancy
41959	L171300	Maternal gonorrhoea in pregnancy - baby not yet delivered
26201	Z22AC00	Pregnancy with uncertain dates
49519	Z229.00	Observation of position of pregnancy
107713	L21y200	Other multiple pregnancy with antenatal problem
36235	67A4.00	Pregnancy exercise advice
105511	L21z.00	Multiple pregnancy NOS
65783	L030000	Delivery of viable fetus in abdominal pregnancy
106267	L03y300	Combined or heterotopic pregnancy
2278	8M600	Requests pregnancy termination
110448	Lyu0.00	[X]Pregnancy with abortive outcome
99006	Q014100	Fetus or neonate affected by abdominal ectopic pregnancy
40357	L2D00	Retained intrauterine contraceptive device in pregnancy
54293	Q015.00	Fetus or neonate affected by multiple pregnancy
22557	Z22B100	Single pregnancy
15338	621A.00	Pregnancy unplanned ? wanted
6649	L166800	Urinary tract infection complicating pregnancy
49855	Q015100	Fetus or neonate affected by twin pregnancy
40825	Z22B800	Undiagnosed multiple pregnancy
35509	62400	A/N care: precious pregnancy
20197	L211.00	Triplet pregnancy
46270	ZV22z00	[V]Unspecified pregnant state
67098	L183300	Drug dependence during pregnancy - baby not yet delivered
23373	L150.00	Post-term pregnancy
1357	L210100	Twin pregnancy - delivered
45729	Z22D.00	Observation of viability of pregnancy
44733	L0z00	Pregnancy with abortive outcome NOS
11760	L13z.00	Unspecified pregnancy vomiting
18500	Z22D100	Viable pregnancy
69686	L417000	Cerebral venous thrombosis in pregnancy
53661	L13z200	Unspecified pregnancy vomiting - not delivered
22183	95711	Prescription exempt form-preg
106378	9mK00	Pertussis vaccination in pregnancy invitation
12230	L263900	Maternal care for fetal tachycardia during pregnancy
22193	Z229100	Intrauterine pregnancy
15061	L1312	Hyperemesis of pregnancy
14877	621B.00	Pregnant - ? planned
27672	7E13100	Excision of ectopic ovarian pregnancy
1744	L0300	Ectopic pregnancy

5693	L16A.00	Glycosuria during pregnancy
36394	L16C.00	Pregnancy induced oedema+proteinuria without hypertension
73914	L412511	Thrombophlebitis of legs in pregnancy
53849	L16y000	Other pregnancy complication unspecified
105943	L165300	Asymptomatic bacteriuria in pregnancy - not delivered
36421	L167z00	Liver disorder in pregnancy NOS
25872	L16yz00	Other pregnancy complication NOS
60309	Q0y00	Maternal problems unrelated preg affecting fetus/neonate OS
67728	L150200	Post-term pregnancy - not delivered
28103	Z22A300	Concealed pregnancy
21849	L031.00	Tubal pregnancy
54577	L210000	Twin pregnancy unspecified
105654	L10y100	Other haemorrhage in early pregnancy - delivered
53685	L410500	Varicose veins of legs in pregnancy
68930	L168100	·
68840	L416200	Fatigue during pregnancy - delivered  Haemorrhoids in pregnancy and puerperium - deliv + p/n comp
53167 45862	L188300 7E07114	Abnormal GTT during pregnancy - baby not yet delivered
		Curettage of uterus for termination of pregnancy NEC
64366	L412500	Superficial thrombophlebitis in pregnancy
13968	584D.00	Antenatal ultrasound confirms intra-uterine pregnancy
14925	L10z.00 L185.11	Early pregnancy haemorrhage NOS
61935		Congenital heart disease in pregnancy
103059	7E07111	Curettage of term pregnancy NEC
16384	7E07113	Curettage of uterus for termination of pregnancy NEC
23421	615C.00	IUD failure - pregnant
3029	L166500	Infections of kidney in pregnancy
106517	L176100	Other maternal viral disease in pregnancy - baby delivered
40964	L192.00	Continuing preg after intrauterine death one fetus or more
	7F06012	Shirodkar suture in pregnancy
30302	7F12	Pregnancy operations
28107	L161.00	Oedema or excessive weight gain in pregnancy no hypertension
85960	44Cz.00	Plasma pregnancy associated plasma protein-A MoM
44057	ZV23111	[V]Pregnancy with history of hydatidiform mole
37573	Z22B900	Continuing pregnancy after abortion of sibling fetus
68694	Z22C.00	Observation of measures of pregnancy
49559	L180300	Diabetes mellitus during pregnancy - baby not yet delivered
29786	L416600	Haemorrhoids in pregnancy
57059	L187300	Orthopaedic disorder in pregnancy - baby not yet delivered
23334	L162.11	Albuminuria in pregnancy without hypertension
92579	L162.13	Uraemia in pregnancy without hypertension
38312	L162.12	Nephropathy NOS in pregnancy without hypertension
22215	Z22A200	High risk pregnancy
38346	ZV22000	[V]First normal pregnancy supervision
15318	6214	Pregnant - on history
41504	L13y000	Other pregnancy vomiting unspecified

72019	L132200	Late pregnancy vomiting - not delivered
37386	8B68.00	Pregnancy prophylactic therapy
60877	L263800	Maternal care for fetal decelerations during pregnancy
107225	L165z00	Asymptomatic bacteriuria in pregnancy NOS
54942	L123100	Transient hypertension of pregnancy - delivered
54701	ZV23y00	[V]Other specified high-risk pregnancy
63825	Q014.00	Fetus or neonate affected by ectopic pregnancy
94804	67AB.00	Preg. prescription exempt adv.
72835	Q01z.00	Fetus/neonate affected by maternal complic pregnancy NOS
99008	Q012.00 Q014300	Fetus or neonate affected by tubal ectopic pregnancy
110868	L181000	Thyroid dysfunction - unspec whether in pregnancy/puerperium
66649		
	L41z500	Venous complication of pregnancy, unspecified  Chalastesis of prognancy
26286	L18A000 62a00	Cholestasis of pregnancy
17947	L176300	Pregnancy review  Other material viral dis in pregnancy helps not yet delivered
103104		Other maternal viral dis.in pregnancy-baby not yet delivered
109932	Z235211	Globular pregnant abdomen
68004	Q0100	Fetus/neonate affected by maternal complication of pregnancy
20240	6216	Pregnant - planned
65834	ZV23200	[V]Pregnancy with history of abortion
7916	Z254500	Delivered by caesarean section - pregnancy at term
21119	L182300	Anaemia during pregnancy - baby not yet delivered
9408	L10y.11	Bleeding in early pregnancy
64099	L168000	Fatigue during pregnancy unspecified
10278	L180800	Diabetes mellitus arising in pregnancy
2602	L166.11	Cystitis of pregnancy
13165	62100	Patient currently pregnant
9986	Z212.11	Pregnancy care
66594	L186.11	Heart disease during pregnancy
35158	Z225.00	Normal pregnancy
93800	Z235100	Ovoid pregnant abdomen
73727	L168z00	Fatigue during pregnancy NOS
55889	L175300	Maternal rubella during pregnancy - baby not yet delivered
7517	621C.00	Unplanned pregnancy
53908	Lyu0000	[X]Other ectopic pregnancy
34173	L12B.00	Proteinuric hypertension of pregnancy
35514	624Z.00	A/N care: precious preg. NOS
15065	8B711	Pregnancy vitamin/iron prophyl
109465	L184300	Mental disorder during pregnancy - baby not yet delivered
24038	13S00	Pregnancy benefits
16215	6211	Pregnant - urine test confirms
35592	6213	Pregnant - V.E. confirms
25254	Z2100	Care relating to reproduction and pregnancy
46609	Z22C800	Number of lost pregnancies
29692	615C.11	Pregnant, IUD failure
50440	Z22A500	Biochemical pregnancy

EGOEO	7\/22100	[V]Other normal programs: supervision
56252 21196	ZV22100 ZV23.00	[V]Other normal pregnancy supervision [V]High-risk pregnancy supervision
30618	Z22AB00 8B74.00	Unplanned pregnancy
10775 48534		Iron supplement in pregnancy
	ZV23100	[V]Pregnancy with history of trophoblastic disease
73559	L13z000	Unspecified pregnancy vomiting unspecified
13984	584E.00	Antenatal ultrasound confirms ectopic pregnancy
9754	Z22A400	Early stage of pregnancy
67893	L2C00	Malnutrition in pregnancy
70993	L16Az00	Glycosuria during pregnancy NOS
23438	L2z00	Risk factors in pregnancy NOS
105694	ZVu2300	[X]Supervision of other normal pregnancy
53097	Z22C313	Duration of pregnancy
58156	L03y.00	Other ectopic pregnancy
55730	ZV22.11	[V]Supervision of normal pregnancy
5709	6213	Pregnancy care
100104	95B00	Health in Pregnancy grant claim form issued
72883	Lyu2100	[X]Other vomiting complicating pregnancy
59588	L411500	Genital varices in pregnancy
67863	Z22B.00	Observation of quantity of pregnancy
12890	Z227.00	Confirmation of pregnancy
47080	L162.00	Unspecified renal disease in pregnancy
3191	L16y500	Abdominal pain in pregnancy
27740	L1600	Other pregnancy complication NEC
67698	L150000	Post-term pregnancy unspecified
29623	62H4.00	Rh screen - 2nd preg. sample
21438	7E08411	Vacuum termination of pregnancy
51298	6215	Pregnant - on abdom. palpation
35912	ZV22200	[V]Pregnancy confirmed
99980	L168300	Fatigue during pregnancy - not delivered
29593	6223	Antenatal care: 3rd pregnancy
49407	L2B00	Low weight gain in pregnancy
52583	L168.00	Fatigue during pregnancy
69599	L21y.00	Other multiple pregnancy
39117	L126500	Eclampsia in pregnancy
863	L398200	Caesarean section - pregnancy at term
90776	62a11	Review of pregnancy
91254	Z235200	Rounded pregnant abdomen
109416	62H5.00	Rh screen - 3rd preg. sample
69815	62H3.00	Rh screen - 1st preg. sample
11989	8HHV.00	Referral for termination of pregnancy
37701	Z22A.00	Observation of pattern of pregnancy
33441	L511.00	Maternal care for viable fetus in abdominal pregnancy
106957	9Nif.00	Did not attend pertussis vaccination in pregnancy
24603	L10y.00	Other haemorrhage in early pregnancy

47608	L177.00	Infactions of bladder in prognancy
63751	L177.00 L16A300	Infections of bladder in pregnancy Glycosuria during pregnancy - not delivered
15418	L166300	Genitourinary tract infection in pregnancy - not delivered
59313	Z22BA00	Contin pregnancy after intrauterine death of sibling fetus
69722	ZV23z00	[V]Unspecified high-risk pregnancy
14842	6217	
42614	Z2200	Pregnant - unplanned - wanted
53490	L178.00	Pregnancy observations
		Infections of urethra in pregnancy
43344	ZV61800	[V]Illegitimate pregnancy
10173	Z23D200	Pregnant abdomen observation
52685	ZV23000	[V]Pregnancy with history of infertility
50512	L031z00	Tubal pregnancy NOS
49502	L228.00	Multiple pregnancy with malpresentation
50058	13SZ.00	Pregnancy benefit NOS
69011	L132000	Late pregnancy vomiting unspecified
10185	L1300	Excessive pregnancy vomiting
10184	67A3.00	Pregnancy smoking advice
97349	L121300	Renal hypertension in preg/childbirth/puerp - not delivered
101518	L132z00	Late pregnancy vomiting NOS
71730	L123300	Transient hypertension of pregnancy - not delivered
31162	L165.00	Asymptomatic bacteriuria in pregnancy
52048	Z22AB11	Accidental pregnancy
54938	L162000	Unspecified renal disease in pregnancy unspecified
62358	L167000	Liver disorder in pregnancy unspecified
110888	67lt.00	Advice on risk harm to mother from maternl medictn dur preg
38771	Lyu2200	[X]Other venous complications in pregnancy
15634	L166z00	Genitourinary tract infection in pregnancy NOS
43000	L16D.00	Excessive weight gain in pregnancy
14651	13H8.00	Illegitimate pregnancy
108236	621D.00	Concealed pregnancy
15033	ZV61900	[V]Other unwanted pregnancy
67164	L18z300	Medical condition NOS in pregnancy - baby not yet delivered
93303	ZV22400	[V]Supervision of other normal pregnancy
6184	ZV22.00	[V]Normal pregnancy
48281	Z22D200	Non-viable pregnancy
29746	8B75.00	Vitamin supplement - pregnancy
16611	ZV22300	[V]Pregnant state, incidental
1130	L210.00	Twin pregnancy
52221	L03y000	Cervical pregnancy
59650	Z235300	Transversely enlarged pregnant abdomen
69327	L10yz00	Other haemorrhage in early pregnancy NOS
51956	L212200	Quadruplet pregnancy with antenatal problem
10306	Z22C314	Weeks pregnant
45965	Z22C311	Pregnancy duration
26055	L263A00	Maternal care for fetal bradycardia during pregnancy

	1301	110,000	Other has marrhage in early programs; upon sified
	0261	L10y000 L200	Other haemorrhage in early pregnancy unspecified  Risk factors in pregnancy
	6268	8IEc.00	Pertussis vaccination in pregnancy declined
	4944	L163300	Pregnancy care of habitual aborter
	0118	62012	Static weight gain pregnancy
	8142	L16A000	Glycosuria during pregnancy unspecified
	1835	L161z00	
	3995	L1511	Oedema or excessive weight gain in pregnancy NOS
			Post-term pregnancy  Transient by partonsian of pregnancy NOS
	5646	L123z00	Transient hypertension of pregnancy NOS
	3895	Z22B500	Quintuplet pregnancy
	5256	L164.00	Peripheral neuritis in pregnancy
	7975	L166.00	Genitourinary tract infections in pregnancy
	6006	L16z.00	Pregnancy complication NOS
	1466	Z22A211	HRP - High risk pregnancy
	6866	L2y00	Other specified risk factors in pregnancy
	5855	L15z.00	Prolonged pregnancy NOS
	2937	L175.11	Rubella contact in pregnancy
	0421	Z22A900	Unwanted pregnancy
	7048	6282	A/N care:10yrs+since last preg
	9193	67A7.11	Care of teeth advice -in preg.
	1986	7E13300	Excision of ruptured ectopic tubal pregnancy
	7034	67AE.00	Folic acid advice in first trimester of pregnancy
10	6737	9mK2.00	Pertussis vaccination in pregnancy invitation third letter
10	2362	389B.00	Assessment for termination of pregnancy
5.	5618	ZV23600	[V]Supervisn/pregnancy wth history insufficnt antenatal care
	7038	Z23D100	Girth of pregnant abdomen
2	9631	6222	Antenatal care: 2nd pregnancy
6	5555	L132.00	Late vomiting of pregnancy
10	7698	Z236300	Pregnant uterus displaced laterally
•	4536	62111	Pregnancy confirmed
11	1540	L415500	Other phlebitis in pregnancy
3	2493	Z22AD00	Presentation of pregnancy
4	4729	L031000	Fallopian tube pregnancy
4	3140	67A2.00	Diet in pregnancy advice
9	1888	L181300	Thyroid dysfunction in pregnancy - baby not yet delivered
1	2837	7F2B100	Ultrasound monitoring of early pregnancy
3	0351	67A6.00	Drugs in pregnancy advice
1.	5567	6218	Pregnant -unplanned-not wanted
3	3724	L03z.00	Ectopic pregnancy NOS
10	0892	Lyu2400	[X]Other+unspcf genitourinary tract infection in pregnancy
	127	6200	Patient pregnant
1	3672	8HHf.00	Refer to early pregnancy unit
3	2073	L000	Pregnancy with abortive outcome
6	4292	L16y300	Other pregnancy complication - not delivered
10	6425	62NL.00	Antenatal 31 week examination

400-40	122222	
109543	L332200	Cord tangled with compression with antenatal problem
102300	Lyu2A00	[X]Abnormal finding on antenatal screening of mother
111263	L230200	Disproportion - major pelvic abnormality with antenatal prob
55111	6B22.00	Sure Start antenatal visit
13418	62W00	Antenatal blood tests
61533	L270200	Polyhydramnios with antenatal problem
14085	62GB.00	Antenatal ultrasounds scan at 4-8 weeks
42326	62KZ.00	Antenatal syphilis screen NOS
18536	62b00	Antenatal HIV screening
99475	68b5.00	Antenatal screening result pending
13168	62NZ.00	Antenatal examination NOS
63448	Z675.00	Antenatal class
100596	68b3.00	Antenatal screening shows significant disorder
67926	ZV28z00	[V]Unspecified antenatal screening
16613	584C.00	Antenatal ultrasound result received
23667	L413.00	Antenatal deep vein thrombosis
53683	L452300	Obstetric nonpurulent mastitis with antenatal complication
104764	L236200	Hydrocephalic disproportion with antenatal problem
56967	9NV1.00	Antenatal clinic
13417	62K00	Antenatal syphilis screen
108099	L39z300	Complications of labour and delivery NOS with antenatal prob
70096	L224200	Transverse lie with antenatal problem
104359	ZVu2600	[X]Other antenatal screening based on amniocentesis
294	6211	Antenatal care
104178	Lyu2600	[X]Other abnormal findings on antenatal screening of mother
27056	62GD.00	Antenatal ultrasound scan at 17-22 weeks
98481	68b4.00	Repeat antenatal screening required
14084	62GC.00	Antenatal ultrasound scan at 9-16 weeks
28732	62c00	Antenatal screening
6095	9N1N.00	Seen in antenatal clinic
99849	68bA.00	Antenatal screening, at risk couple identified
21957	62111	AFP test - antenatal
73765	L311200	Secondary uterine inertia with antenatal problem
102246	L265200	Small-for-dates with antenatal problem
73191	L226200	Brow presentation with antenatal problem
69254	L264200	Intrauterine death with antenatal problem
104766	L30z200	Obstructed labour NOS with antenatal problem
109071	38B6.00	Antenatal risk assessment
7845	Z212.00	Antenatal care
30378	L244312	Rectocele complicating antenatal care - baby not delivered
101938	L390300	Maternal distress with antenatal problem
90277	L350200	Rupture of uterus before labour with antenatal problem
97259	68b6.00	Antenatal screening declined
111183	8IHD.00	Health visitor antenatal visit declined
106588	62NJ.00	Antenatal 22 week examination

30801	62OZ.00	Misc. antenatal data NOS
49665	ZV28600	[V]Antenatal screening for chromosomal anomalies
21543	62200	Antenatal care: gravida No.
109313	9Nil.00	Did not attend antenatal appointment
102755	8CEM.00	Downs syndrome antenatal screening information leaflet given
37985	L2AX.00	Abnormal finding on antenatal screening of mother
91272	L440300	Puerperal cerebrovascular disorder with antenatal comp
99286	L28y200	Other amniotic/membrane problem with antenatal problem
99479	L267200	Other placental conditions with antenatal problem
10056	62N00	Antenatal examinations
44401	L305200	
35484	679E.00	Shoulder dystocia with antenatal problem  Antenatal education
103512	L330200	
		Prolapse of cord with antenatal problem  Other up bilical card complications with antenatal problem
99939	L33y200	Other umbilical cord complications with antenatal problem
101354	L244311 62GE.00	Cystocele complicating antenatal care - baby not delivered  Antenatal ultrasound scan at 22-40 weeks
39611		
40597	ZV28y00	[V]Other specified antenatal screening
70046	L2A4.00	Abnormal radiological finding on antenatal screen of mother
105047	L2A2.00	Abnormal cytological finding on antenatal screen of mother
96678	L33z200	Umbilical cord complications NOS with antenatal problem
15685	L2A00	Abnormal findings on antenatal screening of mother
2029	62G00	Antenatal ultrasound scan
103787	1514100	Estimated date of delivery by antenatal ultrasound scan
31570	6224	Antenatal care: multip
97391	L281200	Premature rupture of membranes with antenatal problem
65725	L413000	Antenatal deep vein thrombosis unspecified
13819	62F00	Antenatal amniocentesis
107186	L266200	Large-for-dates with antenatal problem
16750	6221	Antenatal care: primigravida
71851	L229200	Prolapsed arm with antenatal problem
105865	67AJ.00	Provision of information about antenatal screening
109043	9NFV.00	Health visitor antenatal visit
47928	L280200	Oligohydramnios with antenatal problem
6298	ZV28.00	[V]Antenatal screening
45032	62000	Misc. antenatal data
66496	L222200	Breech presentation with antenatal problem
444	8HT9.00	Referral to antenatal clinic
14083	62GZ.00	Antenatal ultrasound scan NOS
13419	62L00	Antenatal blood group screen
42120	L2A0.00	Abnormal haematologic find on antenatal screening of mother
13416	62M00	Antenatal sickle cell screen
69788	L260200	Fetal-maternal haemorrhage with antenatal problem
73734	ZVu2900	[X]Other antenatal screening
95107	L312200	Other uterine inertia with antenatal problem
103677	Eu32B00	[X]Antenatal depression

400000	C2N11/ C2	A
106923	62NK.00	Antenatal 25 week examination
108811	L245300	Cervical incompetence with antenatal problem
73407	L261200	Rhesus isoimmunisation with antenatal problem
101980	65QG.00	Antenatal screening shows non sig haemoglobinopathy carrier
44828	L263200	Fetal distress with antenatal problem
45091	62Y00	Routine antenatal care
71862	L323200	Delayed delivery second twin with antenatal problem
71794	L307200	Other failed trial of labour with antenatal problem
51432	62FZ.00	Antenatal amniocentesis NOS
97523	68b00	Antenatal screening status
28290	L2A3.00	Abnormal ultrasonic finding on antenatal screening of mother
36226	L2A1.00	Abnormal biochemical finding on antenatal screen of mother
100502	L413200	Antenatal deep vein thrombosis with antenatal complication
61203	L413z00	Antenatal deep vein thrombosis NOS
100578	L255200	Fetus with drug damage with antenatal problem
69072	L262200	Other blood-group isoimmunisation with antenatal problem
49617	622Z.00	Antenatal care: gravida NOS
26873	L413.11	DVT - deep venous thrombosis, antenatal
33009	6254	A/N care: H/O child abuse
29610	62NB.00	A/N 36 week examination
61162	L250200	Fetus with central nervous system malformation + a/n problem
52044	6252	A/N care: poor A/N attender
35513	6284	A/N care: primip. > 30 years
26695	625Z.00	A/N care: social risk NOS
55605	62NH.00	A/N 42 week examination
30797	6233	A/N care: grand multip
23013	6231	A/N care: uncertain dates
36516	62F4.00	A/N amniocentesis wanted
37046	628Z.00	A/N risk NOS
107506	62H2.00	A/N Rh screen offered
25331	6206.11	Vaginal 'show' - A/N
64537	62GA.00	A/N U/S scan for slow growth
13821	62F6.00	A/N amniocentesis - normal
19772	62F3.00	A/N amniocentesis - not wanted
70840	L240311	Bicornuate uterus complicating a/n care, baby not delivered
33287	62F1.00	A/N amniocentesis -not offered
13171	62N8.00	A/N 32 week examination
52049	62G3.00	A/N U/S scan not wanted
33008	6285	A/N care: multip. > 35 years
26696	6253	A/N care: late booker
24219	62A00	A/N care provider
13308	62500	A/N care: social risk
26692	6236	A/N care: poor obstetr history
37222	62G1.00	A/N U/S scan not offered
25391	62112	Alpha-feto protein test - A/N

35512	6281	A/N care: under 5ft tall
31251	62700	A/N care: gynae. risk
26551	62NE.00	A/N 39 week examination
68089	62HZ.00	A/N Rh antibody screen NOS
26691	6235	A/N care: H/O perinatal death
35826	62G6.00	A/N U/S scan normal += dates
30885	62G4.00	A/N U/S scan wanted
70289	62F9.00	A/N amnio. for ? neural tube
26693	62600	A/N care: medical risk
73099	L246311	Polyp of cervix complicating a/n care- baby not delivered
20401	L241311	Uterine fibroid complicating a/n care, baby not delivered
65450	62F2.00	A/N amniocentesis - offered
24236	62AZ.00	A/N care provider NOS
26553	62ND.00	A/N 38 week examination
102160	L283200	Prolonged artificial rupture of membranes with a/n problem
64141	62K2.00	A/N syphilis screen-blood sent
26550	62A2.00	A/N care from consultant
89025	L237200	Other fetal abnormality causing disproportion with a/n prob
102099	62MZ.00	A/N sickle cell screen NOS
47415	62G5.00	A/N U/S scan awaited
13415	62A4.00	A/N care midwifery led
54734	L28z200	Amniotic cavity and membrane problem NOS with a/n problem
14086	62G8.00	A/N U/S scan abnormal
37221	62G7.00	A/N U/S scan normal +? dates
66608	L241300	Tumour of uterine body complicating a/n care, baby not deliv
71797	L248300	Vulval abn complicating a/n care - baby not yet delivered
37029	62NG.00	A/N 41 week examination
29727	62NA.00	A/N 35 week examination
108885	62L1.00	A/N blood gp screen not done
39172	62L2.00	A/N blood group screen done
38165	6237	A/N care: H/O trophoblast.dis.
35511	6234	A/N care: H/O stillbirth
26875	6232	A/N care: recurrent aborter
9546	62300	A/N care: obstetric risk
73120	L247300	Vaginal abnormality complicating a/n care-baby not delivered
24214	62A1.00	A/N care from G.P.
13169	62N5.00	A/N 24 week examination
29627	62N7.00	A/N 30 week examination
3517	62N1.00	A/N booking examination
62147	62F8.00	A/N amnio. for ? chrom.abnorm.
37047	6242	A/N care: H/O infertility
27057	62G9.00	A/N U/S scan for ? abnormality
70616	62M2.00	A/N sickle cell screen done
29059	62A3.00	A/N - shared care
108867	62M1.00	A/N sickle screen not done

12260	62H00	A/N Rh antibody screen
41955	62F5.00	A/N amniocentesis - awaited
13166	62F3.00 62N3.00	A/N 16 week examination
35510	6241	A/N care: elderly primip.
26552	62NC.00	
		A/N 40 week examination
29280	62NF.00	A/N 40 week examination
3786	62800	A/N care: risk NOS
39728	62011	Fetal maturity - A/N
13822	62F7.00	A/N amniocentesis - abnormal
71912	62H1.00	A/N Rh screen not offered
26694	6251	A/N care: poor home conditions
70186	62LZ.00	A/N blood group screen NOS
26690	623Z.00	A/N care: obstetric risk NOS
98957	L240300	Cong abnorm uterus complicating a/n care, baby not delivered
13170	62N9.00	A/N 34 week examination
109166	62K1.00	A/N syphilis screen not done
13167	62N2.00	A/N 12 weeks examination
37220	62G2.00	A/N U/S scan offered
29364	62N4.00	A/N 20 week examination
26554	62N6.00	A/N 28 week examination
31250	6283	A/N care: primip. < 17 years
30209	ZV27000	[V]Single live birth
20573	Q48D000	[X]Fresh stillbirth
11966	ZV27.11	[V]Live birth
8906	ZV27.12	[V]Stillbirth
41253	7F11	Childbirth operations
10719	6331	Single live birth
28726	7F19100	Water birth delivery
58978	Q20y.00	Other specified birth trauma
37884	Z254D00	Face to pubes birth
72025	ZV3zz00	[V]Unspecified birth, NOS
8776	Q48D.00	[X] Stillbirth
5253	633a.00	Birth of child
31203	6332	Single stillbirth
13287	63311	Livebirth
17354	63313	Triplet birth
1825	63314	Twin birth
1214	6311	Home birth
2353	63E2.00	Normal birth
974	Q4z15	Stillbirth NEC
110211	633C.00	Intrapartum stillbirth
70813	ZV27500	[V]Other multiple birth, all live born
37878	Z254E11	Multiple birth delivery
42324	L34z.00	Vulval/perineal trauma during delivery NOS
55124	L39yz00	Other complications of labour and delivery NOS

27254	0000.00	F
27351	Q036.00	Fetus or neonate affected by precipitate delivery
43918	L340400	Fourchette tear during delivery
33915	L213.00	Multiple delivery
5213	7F16400	Low forceps cephalic delivery
25223	L396.00	Vacuum extractor delivery
57957	7F1Ay00	Other specified other method of delivery
7670	L398z00	Caesarean delivery NOS
24243	L263400	Labour and delivery complic by meconium in amniotic fluid
15828	14Y4.00	Born by breech delivery
69780	Lyu5100	[X]Other and unspecified forceps delivery
62862	L342200	Third degree perineal tear during delivery with p/n problem
68752	Z253300	Normal rate of delivery
33773	7F19y00	Other specified normal delivery
30775	62B8.00	Midwife unit delivery booking
6452	L395.00	Forceps delivery
239	L2011	Spontaneous vaginal delivery
95858	L34y100	Other vulval/perineal trauma during delivery- delivered
29070	7F15000	Spontaneous breech delivery
19605	L341z00	Second degree perineal tear during delivery NOS
57945	7F17200	Vacuum delivery before full dilation of cervix
72022	L343000	Fourth degree perineal tear during delivery, unspecified
19607	L344000	Unspecified perineal laceration during delivery, unspecified
3365	L142.11	Premature delivery
27914	62V00	Delivery place planned
90885	Lyu4900	[X]Labour+delivery complicated by other cord entanglement
56310	Z2500	Delivery observations
12052	Z257.00	Delivery normal
11532	7F14.00	Breech extraction delivery
13164	62BZ.00	Delivery booking - place NOS
61212	L34y.00	Other vulval and perineal trauma during delivery
61077	7F16200	Mid forceps cephalic delivery with rotation
5866	7F100	Induction and delivery operations
65940	7F16500	Trial of forceps delivery
19608	L340z00	First degree perineal tear during delivery NOS
52875	L398000	Caesarean delivery unspecified
83535	Lyu5000	[X]Other single spontaneous delivery
47625	Z22C200	Estimated date of delivery from last normal period
17744	7F13100	Lower uterine segment caesarean delivery NEC
15073	7F13y00	Other specified other caesarean delivery
9800	L398300	Delivery by elective caesarean section
37699	L396z00	Vacuum extractor delivery NOS
72021	L343100	Fourth degree perineal tear during delivery - delivered
107136	Q031.11	Fetus affected by malpresentation during delivery
17684	L395.11	Keilland's forceps delivery
20425	L395.12	Neville - Barnes forceps delivery

4780	L2000	Normal delivery in a completely normal case
5868	Ly000	Spontaneous vertex delivery
106113	Lyu5800	[X]Multiple delivery, unspecified
62406	L323000	Delayed delivery second twin unspecified
61540	Z212100	Delivery place planned
47157	L34zz00	Vulval/perineal trauma during delivery NOS
58176	62C2.00	Full stay delivery booking
32283	Z212200	Home delivery planned
106808	L34z200	Vulval/perineal trauma during delivery NOS with p/n problem
740	7F12.00	Elective caesarean delivery
111579	Z263300	Condition of membranes at delivery
34102	Z262700	Incomplete placenta at delivery
21554	7F16900	Kielland forceps cephalic delivery with rotation
31254	L340100	First degree perineal tear during delivery - delivered
23394	7F16300	Mid forceps cephalic delivery NEC
54591	7F14z00	Breech extraction delivery NOS
3085	7F12z00	Elective caesarean delivery NOS
22491	Ly100	Spontaneous breech delivery
19609	L340600	Vaginal tear during delivery
39168	L342100	Third degree perineal tear during delivery - delivered
44235	L296.00	Vaginal delivery following previous caesarean section
40706	L344z00	Unspecified perineal laceration during delivery NOS
27993	62V0.00	Home delivery planned
58721	L20z.00	Normal delivery in completely normal case NOS
33477	L398100	Caesarean delivery - delivered
27963	L323.00	Delayed delivery of second twin, triplet etc
37509	7F1A300	Drainage of hydrocephalus of fetus to facilitate delivery
30806	L34yz00	Other vulval/perineal trauma during delivery NOS
30373	Z22C100	Estimated date of delivery from last period
42572	L323100	Delayed delivery second twin - delivered
15514	7F13000	Upper uterine segment caesarean delivery NEC
47546	7F12y00	Other specified elective caesarean delivery
86399	7F17y00	Other specified vacuum delivery
13352	L3400	Trauma to perineum and vulva during delivery
49446	L396100	Vacuum extractor delivery - delivered
15256	L344.00	Unspecified perineal laceration during delivery
37054	L341100	Second degree perineal tear during delivery - delivered
3108	7F1B000	Episiotomy to facilitate delivery
47863	Lyu5200	[X]Other single delivery by caesarean section
9160	Z257100	Spontaneous vertex delivery
58844	L396000	Vacuum extractor delivery unspecified
57488	L34z100	Vulval/perineal trauma during delivery NOS - delivered
27731	L345.12	Vulval and perineal haematoma during delivery
104872	L143100	Premature labour with premature delivery
42275	L395300	Mid-cavity forceps delivery

40876	L342z00	Third degree perineal tear during delivery NOS
93273	L342200 L39z100	Complications of labour and delivery NOS - delivered
42755	L387.00	Spinal/epidural anesth-induced headache dur labour/delivery
57789	L395400	Delivery by combination of forceps and vacuum extractor
19603	L340000	First degree perineal tear during delivery, unspecified
4786	L213200	
		Multiple delivery, all by caesarean section
20002	7F16000	High forceps cephalic delivery with rotation
66501	L39zz00	Complications of labour and delivery NOS
34333	Z262711	Incomplete delivery of placenta
19602	L341000	Second degree perineal tear during delivery, unspecified
39866	7F1A200	Cleidotomy of fetus to facilitate delivery
30805	L34y000	Other vulval/perineal trauma during delivery, unspecified
11530	Z254900	Vaginal delivery
67489	L34z000	Vulval/perineal trauma during delivery NOS unspec
4638	7F13.00	Other caesarean delivery
40744	Z254A00	Abnormal delivery
25157	L142100	Early onset of delivery - delivered
17704	L395.13	Simpson's forceps delivery
39573	Z265900	Umbilical cord not around baby's neck at delivery
5033	7F16100	High forceps cephalic delivery NEC
26549	62B1.00	Delivery: no place booked
50293	7F1z.00	Induction and delivery operations NOS
67862	L3900	Other complications of labour and delivery NEC
63277	L393.00	Acute renal failure following labour and delivery
32380	L3412	Vulval delivery trauma
23866	7F1B100	Symphysiotomy to facilitate delivery
618	L398400	Delivery by emergency caesarean section
66315	Lyu5500	[X]Other specified assisted single delivery
23791	L38A.00	Failed or difficult intubation during labour and delivery
99608	7F1Bz00	Other operation to facilitate delivery NOS
98749	7F1B400	Incision of cervix to facilitate delivery
30274	L395200	Low forceps delivery
35190	7F13z00	Other caesarean delivery NOS
40710	L395z00	Forceps delivery NOS
26712	L340300	Labial tear during delivery
62789	Q031.00	Fetus/neonate affected by malposition/disproportion-delivery
2624	Q033.00	Fetus or neonate affected by vacuum extraction delivery
19599	L340.00	First degree perineal tear during delivery
11650	L342.00	Third degree perineal tear during delivery
51736	7F17100	Low vacuum delivery
36703	L345.00	Vulval and perineal haematoma during delivery
2458	7F17.00	Vacuum delivery
22975	62B3.00	G.P. unit delivery booking
32988	62B5.00	Private home delivery booking
49485	L263600	Labour+delivery complicatd by biochem evidence/fetal stress

5522	L3z00	Complications of labour and delivery NOS
103319	Lyu4.00	[X]Complications of labour and delivery
14789	Q030.11	Fetus affected by breech delivery
34411	Z254300	Delivered by mid-cavity forceps delivery
48230	Z254800	Deliveries by spontaneous breech delivery
36137	L142z00	Early onset of delivery NOS
59941	L142000	Early onset of delivery unspecified
20738	7F19000	Manually assisted vaginal delivery
34628	7F16600	Failed forceps delivery
33480	7F16y00	Other specified forceps cephalic delivery
37245	L345000	Vulval and perineal haematoma during delivery, unspecified
43959	633Z.00	Outcome of delivery NOS
70615	L345z00	Vulval and perineal haematoma during delivery NOS
60953	Z253211	Precipitate delivery
53572	L3y00	Other specified complications of labour or delivery
9668	7F12100	Elective lower uterine segment caesarean delivery
9791	Z257.15	ND - Normal delivery
9625	L263300	Labour and delivery complicated by fetal heart rate anomaly
28861	L398500	Delivery by caesarean hysterectomy
49733	L388.00	Cardiac comps of anaesthesia during labour and delivery
15480	14Y3.00	Born by normal vaginal delivery
98059	Lyu5400	[X]Other manipulation-assisted delivery
69971	Z253100	Slow rate of delivery
61226	ZV27y00	[V]Other specified outcome of delivery
105276	7F14000	Breech extraction delivery with version
103890	1514000	Estimated date of delivery from last period
101229	Z255A00	Observation of delivery push in labour
50675	L395100	Forceps delivery - delivered
44472	L39y.00	Other complications of labour and delivery
48742	Z254C00	Face delivery
33884	L213000	Multiple delivery, all spontaneous
14892	7F17z00	Vacuum delivery NOS
64464	7F15z00	Other breech delivery NOS
13163	62B00	Delivery booking place
105419	7F17000	High vacuum delivery
8879	1514.12	Estimated date of delivery
720	L398.00	Caesarean delivery
29885	L300	Complications occurring during labour and delivery
14727	14Y1.00	Born by forceps delivery
15675	14Y5.00	Born by ventouse delivery
167	7F19.00	Normal delivery
32991	62C1.00	Short stay delivery booking
688	7F17.11	Ventouse delivery
463	L222.12	Breech delivery
6141	L396.11	Ventouse delivery

28903	Z254200	Delivered by low forceps delivery
100597	L39y100	Other complications of labour and delivery - delivered
12014	ZV27.00	[V]Outcome of delivery
61259	7F12000	Elective upper uterine segment caesarean delivery
105032	L143000	Premature labour without delivery
42885	Z254.00	Observation of pattern of delivery
107557	63D7.00	Complete placenta at delivery
37254	Q030.00	Fetus or neonate affected by breech delivery and extraction
3078	Q030.00 Q032.00	Fetus or neonate affected by forceps delivery
19600	L341.00	Second degree perineal tear during delivery
39576	L341.00	
31280	L340500	Fourth degree perineal tear during delivery
25545		Vulval tear during delivery  Delivery place booked
	Z212300	, ;
70242	7F16700	Barton forceps cephalic delivery with rotation
71057	L345100	Vulval and perineal haematoma during delivery - delivered
1279	7F16.00	Forceps cephalic delivery
22976	62B2.00	Home delivery booked
41414	62B6.00	Delivery booking place changed
104873	L143.00	Premature labour and delivery
50847	L398600	Caesarean delivery following previous Caesarean delivery
18287	7F22500	Normal delivery of placenta
19604	L342000	Third degree perineal tear during delivery, unspecified
2943	L222.11	Assisted breech delivery
96089	Z253200	Rapid rate of delivery
8967	7F19z00	Normal delivery NOS
51065	62CZ.00	Delivery booking - stay NOS
33378	7F15.00	Other breech delivery
53937	L395000	Forceps delivery unspecified
90497		Complications of labour and delivery NOS with p/n problem
23994	7F15100	Assisted breech delivery
60256	Z254B00	Brow delivery
60538	L213100	Multiple delivery, all by forceps and vacuum extractor
15926	7F15y00	Other specified other breech delivery
95780	Z262600	Complete placenta at delivery
65702	L3800	Complications of anaesthesia during labour and delivery
14686	7F16z00	Forceps cephalic delivery NOS
67052	L344100	Unspecified perineal laceration during delivery - delivered
15167	L142.00	Early onset of delivery
11194	Z257.12	Spontaneous vaginal delivery
25681	Z257.13	SVD - Spontaneous vaginal delivery
9383	Z257.11	Normal delivery
17492	Z257.14	FTND - Full term normal delivery
31780	L222.13	Spontaneous breech delivery
22498	Z253.12	Rate of delivery
52151	Lyu4800	[X]Labour+delivery complicat/oth evidence of fetal distress

39319 8HE7.00 Discharged from hospital within 6 hours of delivery 73048 7F14y00 Other specified breech extraction delivery 109452 7F1By00 Other specified other operation to facilitate delivery 69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
109452 7F1By00 Other specified other operation to facilitate delivery 69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
3364 L126300 Eclampsia - not delivered
CE7E0 1244200 OIL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
65759   L244300   Other uterine/pelvic floor abnormal - baby not yet delivered
62880 L110200 Placenta praevia without haemorrhage - not delivered
69002 L11y200 Other antepartum haemorrhage - not delivered
67447 L125300 Severe pre-eclampsia - not delivered
64752 L111200 Placenta praevia with haemorrhage - not delivered
53160 L127300 Pre-eclampsia or eclampsia with hypertension - not delivered
31617 L130200 Mild hyperemesis-not delivered
57852 L100200 Threatened abortion - not delivered
64298 L141100 Other threatened labour - not delivered
54082 L169300 Herpes gestationis - not delivered
48830 L140100 Threatened premature labour - not delivered
54576 Z252.00 Mother not delivered
2549 L222.00 Breech presentation
13288 2722 O/E - breech presentation
46298 L222z00 Breech presentation NOS
55359 Q017100 Fetus/neonate affected by breech presentation before labour
56867 L300300 Obstructed labour due to breech presentation
66786 L397z00 Breech extraction NOS
48516 Z254400 Deliveries by breech extraction
4955 L397.00 Breech extraction
66106 L397000 Breech extraction unspecified
15610 7F06300 External version of breech
1534 7F14100 Forceps to aftercoming head (breech)
66307 L222000 Breech presentation unspecified
16097 Q214z00 Liveborn with unspecified fetal distress NOS
33258 L512.00 Maternal care for diminished fetal movements
67883 L514.00 Maternal care for poor fetal growth
50733 L263.12 Fetal bradycardia
23009 Q213.11 Fetal distress in labour - liveborn
48463 Q410.00 Fetal blood loss
23565 L2500 Known or suspected fetal abnormality
43428 ZV28400 [V]Screening for fetal growth retardation using ultrasonics
5479 Q212.00 Liveborn with prelabour fetal distress
106201 Qyu5400 [X]Other specified fetal and neonatal haemorrhages
31481 7F04300 Electrode applied to fetal scalp

407740	040044	
107512	Q102.11	Fetal malnutrition without mention of 'light for dates'
96711	Q408200	Eschericha coli intra-amniotic fetal infection
98261	7F27y00	OS non routine obstetric scan for fetal observations
43893	Q470.00	Idiopathic hydrops fetalis
19590	6201.00	Fetal movements felt
48576	L22y.00	Other fetal malposition and malpresentation
64959	7F01100	Fetoscopic examination of fetus and sampling of fetal blood
36640	L265300	Maternal care for poor fetal growth
59566	Q41yz00	Fetal or newborn haemorrhage NOS
72837	2763	O/E - fetal heart 40-80
62654	4H72.00	Amniotic fetal cell abnormal
28977	L237.00	Other fetal abnormality causing disproportion
46514	L263700	Maternal care for fetal hypoxia
60301	7P0H500	Fetal echocardiography
27801	2755	O/E - fetal movemnt.diminished
67438	Q40y000	Intrauterine fetal sepsis, unspecified
63905	Lyu3A00	[X]Maternal care/known or suspected fetal problem,unspecifd
46784	Q023200	Fetus/neonate affected by materno-fetal transplacental trans
50281	Q213z00	Liveborn with labour fetal distress NOS
25153	2753	O/E - fetal movements felt
103893	7F27400	Fetal ascites scan
66619	Q023011	Fetus/neonate affected by feto-fetal transplacental transfus
101225	BBK3400	[M]Fetal rhabdomyoma
104765	Q102.00	Fetal malnutrition, no mention light or small for gest age
96669	L22z.00	Fetal malposition and malpresentation NOS
55071	Z271C00	Fetal heart baseline pattern
22815	27500	O/E - fetal movements
69819	274Z.00	O/E - fetal station NOS
56744	Q1011	Fetal malnutrition
9164	58411	Fetal U-S scan
66175	Q45z.00	Fetal or newborn blood disorder NOS
102019	Q410600	Fetal haemorrhage into mother's circulation
104829	L260000	Fetal-maternal haemorrhage unspecified
97471	Q212z00	Liveborn with prelabour fetal distress NOS
100323	4H700	Amniotic fetal cell study
73393	4H71.00	Amniotic fetal cell study: NAD
53296	42YG.00	Fetal cell test
48798	Q4500	Fetal and newborn blood disorders
21893	L510.00	Maternal care for hydrops fetalis
60774	Z271100	Fetal heart acceleration
62898	2768	O/E - fetal heart 180-200
95881	2762	O/E - fetal heart < 40
70856	2764	O/E - fetal heart 80-100
67186	272Z.00	O/E - fetal presentation NOS
38608	L250.11	Suspect fetal anencephaly

8846	L250.13	Suspect fetal spina bifida
55152	Q408.00	Intra-amniotic fetal infection
104218	L300000	Obstructed labour due to fetal malposition unspecified
99494	Q455000	Congenital anaemia from fetal blood loss
91908	7F27200	Fetal biometry
95754	Q408z00	Intra-amniotic fetal infection NOS
62629	Q41yy00	Other specified fetal or newborn haemorrhage
95064	Q41y.00	Other fetal and newborn haemorrhage
19575	Q10z.00	Fetal growth retardation NOS
31033	7F03100	Percutaneous insertion of fetal pleuroamniotic shunt
53241	Q214100	Liveborn with fetal hypoxia, unspecified
26707	2766	O/E - fetal heart 120-160
38846	Z271D00	Normal fetal heart baseline pattern
44071	Q479.00	Non-immune hydrops fetalis
64335	L263000	Fetal distress unspecified
23590	L300.00	Obstructed labour due to fetal malposition
102073	Q410z00	Fetal blood loss NOS
53687	2752	O/E - fetal movements seen
42093	5846	U-S scan - fetal maturity
3620	Q214.00	Liveborn with fetal distress, unspecified
63024	2726	O/E -fetal presentation unsure
104845	Q410700	Fetal exsanguination
59679	276Z.00	O/E - fetal heart NOS
100297	L22zz00	Fetal malposition and malpresentation NOS
34777	Q1000	Slow fetal growth and fetal malnutrition
98499	L25z300	Maternal care for suspect fetal abnormal and damage, unspec
96222	L25z400	Maternal care for fetal abnormality and damage, unspecified
41908	Q3z00	Fetal or newborn respiratory problems NOS
28184	Q436z00	Unspecified fetal or neonatal jaundice NOS
11589	7F25100	Fetal heart monitoring in labour
35680	Q423.00	Hydrops fetalis due to isoimmunisation
45439	Lyu3900	[X]Maternal care/oth spcf known or suspected fetal problems
12013	L268000	Reduced fetal movements
19581	Q436.00	Fetal and neonatal jaundice, unspecified
32184	L267500	Other fetal problems
68996	2765	O/E - fetal heart 100-120
62903	2767	O/E - fetal heart 160-180
70845	Z271E00	Sinusoidal pattern of fetal heart
52308	Q211.00	Fetal death due to labour anoxia
101119	2769	O/E - fetal heart > 200
27868	2761	O/E - fetal heart not heard
39218	5858200	Ultrasonic doppler for fetal heart sounds
2437	2751	O/E - no fetal movements
13276	L263.00	Fetal distress - affecting management
49294	L2600	Other fetal and placental problems

41919	5849	U-S scan - fetal presentation
72159	5845	U-S scan - fetal cephalometry
91933	Q410000	Fetal blood loss, unspecified
85992	7F27.00	Non routine obstetric scan for fetal observations
95538	Z271B00	Poor baseline variability in fetal heart rate
36195	L268.00	Other fetal problems
8147	L264.11	Fetal death in utero
94785	9Nk3.00	Seen in fetal medicine clinic
91477	7F03300	Percutaneous insertion of fetal pleural drain
19720	7F25.11	Fetal monitoring
983	Q11	Fetal and neonatal conditions
26710	27200	
45963		O/E - fetal presentation
	5847	U-S scan - fetal abnormality
46413 48801	L250.12	Suspect fetal hydrocephaly
	Q4100	Fetal and neonatal haemorrhage
95875	7F27z00	Non routine obstetric scan for fetal observations NOS
39868	Q420.11	Erythroblastosis fetalis
50201	Q3100	Other fetal and newborn respiratory conditions
55607	Z271900	Fetal heart rate variability
47149	Z271F00	Fetal heart deceleration
102894	L260z00	Fetal-maternal haemorrhage NOS
91773	Z271A00	Good baseline variability in fetal heart rate
46502	Q2112	Labour fetal anoxia
46431	7F04100	Percutaneous sampling of fetal blood
9501	7F25000	Fetal heart monitoring NEC
19582	Q493.00	Persistent fetal circulation
7681	27600	O/E - fetal heart heard
62316	L5100	Maternal care for other known or suspected fetal problems
	L263.13	Fetal tachycardia
54004	7F03000	Percutaneous insertion of fetal vesicoamniotic shunt
34132	Q212.11	Fetal distress before labour - liveborn
42322	Q213.00	Liveborn with labour fetal distress
20320	Q210.00	Fetal death due to prelabour anoxia
107794	4H7Z.00	Amniotic fetal cell study NOS
106136	Q410200	Fetal placental blood loss
66335	L260.00	Fetal-maternal haemorrhage
53863	L263z00	Fetal distress NOS
41102	L263500	Lab+del comp fetal ht rate anom wth meconium in amnio fluid
35214	Z271912	FHRV - Fetal heart rate variability
26401	Q214.11	Fetal distress, unspecified when, liveborn
54687	L51X.00	Maternal care/known or suspected fetal problem,unspecifd
37752	6203.00	Fetal maturity: dates = size
55493	6202.00	Fetal movements seen
52857	275Z.00	O/E - fetal movements NOS
110134	Z271G00	Early fetal heart deceleration

13299	Q42X.00	Hydrops fetalis due to other+unspcfd haemolytic disease
100342	PK81.00	Fetal hydantoin syndrome
50913	P7z11	Fetal circulation
51372	Q311z11	Pneumonitis due to fetal aspiration
97985	Z271H00	Late fetal heart deceleration
95649	L263.11	Fetal acidosis
48784	6204.00	Fetal maturity: dates not=size
66428	Q026.11	Fetus affected by cord problems
1017	Q020.11 Q034.00	Fetus or neonate affected by caesarean section
97885	7F01000	Fetoscopic examination of fetus and biopsy of fetus
47151	L220.00	Fetus - unstable lie
97186	7F03z00	Therapeutic percutaneous operation on fetus NOS
26685	Q035600	Fetus/neonate affected by other maternal opiates in lab/del
62776	Q037.11	Fetus or neonate affected by hypertonic labour
		, ,,
5538 91659	Q024.00 Q022.00	Fetus or neonate affected by prolapsed cord  Fetus/neonate affected by placental abnormality NEC
105625	Q022.00 Q027.00	Fetus or neonate affected by chorioamnionitis
72118	L257.00	·
	L257.00 L255.00	Fetus with damage due to intra-uterine contraceptive device  Fetus with drug damage
52007		
73892	Q00z.00	Fetus or neonate affected by maternal medical problem NOS
67326	Q04X.00	Fetus+newborn affected/other maternal noxious influences
69257	L25y000	Fetus with other damage NEC, unspecified
71987	Q007A00	Fetus/neonate affect-plac./breast transf hypoglycaemic agent
63290 52669	Q101.00 Q031200	Fetus small-for-dates with signs of malnutrition
61063	L25zz00	Fetus/neonate affect persistent occip-posterior - labour/del Fetus with damage NOS
99136	Q021200	Fetus/neonate affected by placental damage-amniocentesis
45440	7F00.00	Therapeutic fetoscopic operations on fetus
	7N61200	
30979		[SO]Fetus Selective destruction of fetus NOS
69435	7F02z00	
61452	7F0z.00	Fetus and gravid uterus operations NOS
46724	Q022200	Fetus or neonate affected by placental insufficiency  Maternal care for suspected CNS malformation in fetus
105097	L250300	Maternal care for suspected CNS malformation in fetus
52633	Q021111	Fetus affected by placental abruption  Fetus small for dates (SED), without montion of malnutrition
36894	Q100.11	Fetus small-for-dates (SFD), without mention of malnutrition
94808	Q017600	Fetus or neonate affected by face presentation before labour
103741	7F2A211	Doppler ultrasound scan of middle cerebral artery of fetus
51177	L500	Maternal care for fetus  Percutaneous laser ablation of lesion of fetus
106508	7F03600	
44173	5391	Obstetric X-ray - fetus
38864	L160.00	Papyraceous fetus  Fotus or populate affected by cord round posk
48156	Q025000	Fetus or neonate affected by cord round neck
59236	L25z.00	Fetus with chromosomal chromolity NOS
53074	L251z00	Fetus with chromosomal abnormality NOS
66699	PK83.00	Fetus and newborn affected by maternal use of alcohol

66571	Qyu5200	[X]Oth intracranial(nontraumatic)haemorrhages/fetus+newborn
31923	Q021300	Fetus/neonate affected by placental damage-caesarean section
72366	7F02y00	Other specified selective destruction of fetus
62819	7F04z00	Diagnostic percutaneous examination of fetus NOS
72973	Qyu5500	[X]Other haemolytic diseases of fetus and newborn
45653	Q025.00	Fetus or neonate affected by other cord compression
23483	Q023.00	Fetus or neonate affected by placental transfusion syndrome
97240	Q027100	Fetus or neonate affected by amnionitis
72834	Q41z.00	Haemorrhage of fetus and newborn NOS
52950	Q013.00	Fetus or neonate affected by maternal polyhydramnios
41937	5848	U-S scan - multiple fetus
63077	Q00y.00	Fetus or neonate affected by other maternal condition
34695	L2211	Malpresentation of fetus
15495	Q42z.00	Haemolytic disease of fetus/newborn due isoimmunisation NOS
22032	Q100.00	Fetus small-for-dates, without mention of malnutrition
43005	Q200012	Intracranial haemorrhage in fetus or newborn
36559	Q200011	Intracerebral haemorrhage in fetus or newborn
71279	L250000	Fetus with central nervous system malformation unspecified
40870	Q020.00	Fetus or neonate affected by placenta previa
85238	Qyu5F00	[X]Intracranial nontraumatic haemorrhage fetus newborn unsp
106959	Qyu0200	[X]Fetus and newborn affected by other maternal conditions
46283	7F000	Fetus and gravid uterus operations
682	Q4200	Haemolytic disease of fetus/newborn due to isoimmunisation
27334	Q026z00	Fetus or neonate affected by cord problems NOS
50530	7F0y.00	Other specified operations on fetus or gravid uterus
28487	Q13	Fetus and neonate conditions
71910	Q037200	Fetus or neonate affected by hypertonic uterine dysfunction
70737	L25z000	Fetus with damage NOS, unspecified
56697	Q041.00	Fetus and newborn afect by mat use of nutritional chem subs
54726	L251400	Maternal care for chromosomal abnormality in fetus
101599	L253300	Maternal care for damage to fetus from maternal rubella
101893	L251300	Maternal care for suspected chromosomal abnormality in fetus
66526	Q035200	Fetus/neonate affected by mat general anaesthesia - lab/del
99890	Q021400	Fetus/neonate affect by placental damage-surgical induction
44479	Q200511	Intracerebral haematoma in fetus or newborn
47219	Q035300	Fetus/neonate affected by mat epidural anaesth - labour/del
52526	Q200600	Extradural haemorrhage in fetus or newborn
105735	Q007B00	Fetus/neonate affected-plac./breast transfer endocrine agent
21382	27B00	O/E - viable fetus
100241	L25y.00	Fetus with other damage NEC
26840	Q017500	Fetus or neonate affected by unstable lie before labour
95128	9d06.00	Fetus
26631	Q000.00	Fetus or neonate affected by maternal hypertensive disease
73317	L252.00	Fetus with hereditary disease
48583	Q031600	Fetus/neonate affected by disproportion during labour/delive

71627	0017.11	Catura affordad by madiguacoutation
71637	Q017.11	Fetus affected by malpresentation
71495	L250z00	Fetus with central nervous system malformation NOS
60841	Q013.11	Fetus affected by hydramnios
55149	Qyu0100	[X]Fetus+newborn affectd/oth medical procedure on mother,NEC
100666	L252z00	Fetus with hereditary disease NOS
66748	Qyu0C00	[X]Fetus+newborn affected/other maternal noxious influences
43958	Q023000	Fetus/neonate affected by twin-to-twin transplacental transf
23617	L2200	Malposition and malpresentation of fetus
68016	L253.11	Fetus with suspected rubella damage via mother
65716	Q011.00	Fetus/neonate affected maternal premature rupture membrane
20721	7F011	Fetus operations
59580	7F012	Fetus & gravid uterus ops
72558	Q016.00	Fetus or neonate affected by maternal death
38043	Q200500	Cerebral haematoma in fetus or newborn
52299	Q007200	Fetus/neonate affected by placental/breast transfer narcotic
68169	Q021.00	Fetus/neonate affect other placental separation/haemorrhage
37055	Q035500	Fetus/neonate affected by maternal pethidine in labour/deliv
16963	7F00000	Fetoscopic blood transfusion of fetus
61596	Q017300	Fetus or neonate affected by oblique lie before labour
55761	Q021500	Fetus or neonate affected by premature placental separation
44644	L250.00	Fetus with central nervous system malformation
58187	Lyu4500	[X]Obstructed labour due to other abnormalities of fetus
108080	Qyu0.00	[X]Fetus/newborn affected by maternal factors+complications
91434	L251.12	Suspect mongol fetus
42661	Q021011	Fetus affected by APH - antepartum haemorrhage
63309	Q037312	Fetus/neonate affected by uterine dysfunction in labour/del
95638	Q101.11	Fetus small-for-dates (SFD) with signs of malnutrition
69015	L251.11	Suspect cystic fibrosis fetus
64430	Q007C00	Fetus/neonate affected-plac./breast transfer addictive drug
59171	Q017400	Fetus or neonate affected by transverse lie before labour
57828	7F03200	Percutaneous blood transfusion of fetus
24701	2754	O/E - fetus very active
72833	Q02z.00	Fetus/neonate affected by abnormalities chorion/amnion NOS
104029	Qyu0B00	[X]Fetus and newborn affected by other maternal medication
70901	Q023100	Fetus/neonate affected by feto-maternal transplacental trans
7103	Q000.11	Fetus affected by maternal toxaemia
109421	Q03y400	Fetus or neonate affected by long labour
20544	Q031611	Fetus/neonate affected-cephalopelvic disproportion lab./del.
99563	27A11	O/E - VE - descent of fetus
50555	Q012.00	Fetus or neonate affected by maternal oligohydramnios
101603	Q010.00	Fetus or neonate affected by maternal incompetent cervix
72348	Q007800	Fetus/neonate affected-plac./breast transfer chemotherapy
30692	L251.00	Fetus with chromosomal abnormality
45856	Q002.00	Fetus or neonate affected by maternal infections
49959	Q005.00	Fetus or neonate affected by maternal injury

93329	Q007400	Fatur / nagnata affacted placental / broast transfer anti-infact
72729	L253.00	Fetus/neonate affected-placental/breast transfer anti-infect  Fetus with viral damage via mother
63648	Q021000	Fetus/neonate affected by antepartum haemorrhage unspecified
96742	Q021000 Q007300	Fetus/neonate affected by affectal breast transfer hallucinogen
68851	Q007300 Q0000	Fetus or neonate affected by maternal medical problems
		Maternal care for CNS malformation in fetus
54690	L250400	
108565	Qyu0700	[X]Fetus+newborn affectd/oth+unspcfd conditns/umbilical cord [X]Digestive system disorders of fetus and newborn
108626	Qyu7.00	
38660	Q300	Fetus and newborn respiratory conditions
42226	Q017200	Fetus or neonate affected by external version before labour
71951	Q037300	Fetus or neonate affected by uterine inertia or dysfunction
71552	L235.00	Large fetus causing disproportion
67572	Q031000	Fetus/neonate affected by mat bony pelvis abn in labour/del
65059	Qyu5.00	[X]Haemorrhagic+haematolog disorders of fetus and newborn
68687	L266300	Suspected macroscopic fetus
52726	Q031500	Fetus/neonate affected by face presentation during labour/de
27447	Q031z00	Fetus/neonate affected by malposition/disproportion NOS
54311	Q0200	Fetus/neonate affected by complic of placenta/cord/membrane
100074	7F01.00	Diagnostic endoscopic examination of fetus using fetoscope
101984	7F03.00	Therapeutic percutaneous operations on fetus
70393	7F04.00	Diagnostic percutaneous examination of fetus
102078	Q027z00	Fetus or neonate affected by chorioamnionitis
58773	Q026.00	Fetus or neonate affected by other specified cord problems
102535	7F00.12	Therapeutic foetoscopic operations on fetus
35777	Q417.00	Intracranial nontraumatic haemorrhage of fetus and newborn
31496	Q007900	Fetus/neonate affected-plac./breast transfer uterine depress
107153	Q007x00	Fetus/neonate affected - placental/breast transfer toxic NEC
40376	PH11.00	Harlequin fetus
56666	L256.00	Fetus with radiation damage
73323	L254.00	Fetus with damage due to other maternal disease
73373	Q001.00	Fetus or neonate affected by maternal renal/urinary disease
96331	L258.00	Fetus with cardiovascular abnormality
105261	Q007500	Fetus/neonate affected-placental/breast transfer immune sera
57651	7F02.00	Selective destruction of fetus
97611	7F03400	Percutaneous insertion of bladder drain to fetus
108731	7F03y00	Other specified therapeutic percutaneous operation on fetus
70074	Q3y00	Other specified respiratory problems in fetus or neonate
69814	Q022000	Fetus or neonate affected by placental dysfunction
69533	L257.12	Fetus with damage due to intra-uterine contraceptive device
95909	Q026400	Fetus or neonate affected by vasa praevia of cord
55410	L251000	Fetus with chromosomal abnormality unspecified
37180	27211	O/E - lie of fetus
69076	Q031300	Fetus/neonate affected by shoulder presentation - labour/del
61640	L252000	Fetus with hereditary disease unspecified
96614	Q035100	Fetus/neonate affected by mat analgesic agent in labour/del

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42213	Q021100	Fetus or neonate affected by abruptio placentae
104989	Q018.00	Fetus or neonate affected by maternal postnatal depression
70739	L25yz00	Fetus with other damage NEC NOS
42384	Q031400	Fetus or neonate affected by transverse lie in labour/deliv
72757	Q007100	Fetus/neonate affected by placental/breast transfer alcohol
51296	Q03y200	Fetus or neonate affected by induction of labour
111265	Qyu6.00	[X]Transitory endocr & metab disord specif to fetus/newborn
59070	Q037.00	Fetus or neonate affected by abnormal uterine contractions
97745	Q007600	Fetus/neonate affected-plac./breast transfer anticonvulsant
27670	L255300	Maternal care for (suspected) damage to fetus from alcohol
92824	Q031z11	Fetus or neonate affected by obstructed labour NEC
99473	Q007.00	Fetus/neonate affected by poison transferred placenta/breast
50940	5391.11	Fetus - abdominal X-ray, obst.
72836	Q007w00	Fetus/neonate affected-placenta/breast transfer medicine NEC
97923	Q025200	Fetus or neonate affected by knot in cord
68577	Q037100	Fetus or neonate affected by hypertonic labour
70165	Q016.11	Fetus affected by maternal death
107075	L043z11	Unspecified inevitable miscarriage without complication
94976	L044x11	Incomplete inevitable miscarriage with unspecified comp
17625	L044.11	Inevitable miscarriage incomp
55404	L045z11	Complete inevitable miscarriage without complication
12241	L0211	Missed miscarriage
107604	L045211	Complete inevitable miscarriage complicated by embolism
53836	L044z11	Incomplete inevitable miscarriage without complication
96949	L0212	Silent miscarriage
11323	L045.11	Inevitable miscarriage complete
108742	L045x11	Complete inevitable miscarriage with unspecified comp
109228	L043y11	Unspecified inevitable miscarriage with OS complication
11234	L043.11	Inevitable miscarriage unspecified
92284	L044y11	Incomplete inevitable miscarriage with other specified comp
48603	L040900	Inevitable miscarriage
99578	L043x11	Unspecified inevitable miscarriage with unspec complication
165	L0411	Miscarriage
57576	L045y11	Complete inevitable miscarriage with OS complication
3082	L0400	Spontaneous abortion
2187	L0500	Legally induced abortion
68740	L041x00	Incomplete spontaneous abortion with complication NOS
63778	L042x00	Complete spontaneous abortion with complication NOS
69183	L052100	Complete legal abortion with delayed/excessive haemorrhage
102820	L050200	Unspecified legal abortion + damage to pelvic organs/tissues
41098	L050x00	Unspecified legal abortion with complication NOS
106524	L071100	Unspecified incomplete abortion + delayed/excess haemorrhage
25883	L071y00	Unspecified incomplete abortion + no mention of complication
99736	L042000	Complete spontaneous abortion + genital tract/pelvic infect
99590	L052w00	Complete legal abortion with other specified complication

69190	L052000	Complete legal abortion + genital tract or pelvic infection
3874	L031200	Tubal abortion
56325	L042y00	Complete spontaneous abortion + no mention of complication
99955	L040400	Unspecified spontaneous abortion with metabolic disorder
60771	L0511	Elective abortion
31431	L0511	Therapeutic abortion
95625	L044200	Incomplete inevitable abortion complicated by embolism
40258	L040011	Spontaneous abortion with sepsis
72593	L044x00	Incomplete inevitable abortion with unspecified complication
49467	L044x00	Self-induced abortion
71289	L0612	Criminal abortion
25605	L100z00	Threatened abortion NOS
58137	L100200	
	L072.00	Unspecified abortion NOS
1886		Unspecified abortion complete
70643	L070.00	Unspecified abortion
56828	L041w00	Incomp spontaneous abortion + other specified complication
28605	L051z00	Incomplete legal abortion NOS
38415	L050z00	Unspecified legal abortion NOS
97991	L062w00	Complete illegal abortion with other specified complication
2034	L10zz11	Inevitable abortion
56224	L070z00	Unspecified abortion NOS
94404	L061z00	Incomplete illegal abortion NOS
104747	L040x00	Unspecified spontaneous abortion with complication NOS
8173	L043.00	Inevitable abortion unspecified
105470	L040500	Unspecified spontaneous abortion with shock
102090	L08y.00	Failed attempted abortion with no mention of complication
68311	L044y00	Incomplete inevitable abortion with OS complication
9407	6776.11	Abortion counselling
	L045.00	Inevitable abortion complete
1737	L0200	Missed abortion
41606	L0600	Illegally induced abortion
39470	L0800	Failed attempted abortion
7413	L041.00	Spontaneous abortion incomplete
1439	L0700	Unspecified abortion
70384	L050y00	Unspecified legal abortion with no mention of complication
1879	L071.00	Unspecified abortion incomplete
68938	L040y00	Unspec spontaneous abortion without mention of complication
49809	L0A00	Failed attempted abortion
41783	L041100	Incomp spontaneous abortion + delayed/excessive haemorrhage
73445	L050000	Unspecified legal abortion + genital tract/pelvic infection
50612	L052y00	Complete legal abortion with no mention of complication
94359	L042w00	Complete spontaneous abortion + other specified complication
68669	L040w00	Unspec spontaneous abortion + other specified complication
58085	L052z00	Complete legal abortion NOS
50903	L0A2.00	Failed medical abortion comp by delayed/excessive haem'ge

33964	L0A4.00	Failed medical abortion, without complication
56822	L050.00	Legal abortion unspecified
51614	L044z00	Incomplete inevitable abortion without complication
41118	L08z.00	Failed attempted abortion NOS
45806	L070x00	Unspecified abortion with complication NOS
39754	L051.11	Medal abortion - incomplete
6730	L051.11	Surgical abortion - incomplete
35184	L051.12 L071z00	
		Unspecified incomplete abortion NOS
105603 107159	L052500 L08x.00	Complete legal abortion with shock
		Failed attempted abortion with complication NOS
7817	L042.00	Spontaneous abortion complete
106491	L050100	Unspecified legal abortion + delayed/excessive haemorrhage
66365	L043y00	Unspecified inevitable abortion with OS complication
47931	L050w00	Unspecified legal abortion with other specified complication
47298	L052.00	Legal abortion complete
71529	L060.00	Illegal abortion unspecified
66561	L062.00	Illegal abortion complete
96418	L06z.00	Illegally induced abortion NOS
56562	L040z00	Unspecified spontaneous abortion NOS
47435	L097200	Readmission for retained produc of concept, illegal abortion
72307	L040000	Unspec spontaneous abortion + genital tract/pelvic infection
73443	L051y00	Incomplete legal abortion with no mention of complication
68936	L051100	Incomplete legal abortion + delayed or excessive haemorrhage
96652	L051w00	Incomplete legal abortion with other specified complication
59084	L071500	Unspecified incomplete abortion with shock
53229	L060z00	Unspecified illegal abortion NOS
110905	L070w00	Unspecified abortion with other specified complication
29439	L041z00	Incomplete spontaneous abortion NOS
21805		Readmission for retained produc of concept, unspec abortion
7114	L044.00	Inevitable abortion incomplete
59572	L0A3.00	Failed medical abortion, complicated by embolism
22379	L04z.00	Spontaneous abortion NOS
59116	L045x00	Complete inevitable abortion with unspecified complication
12337	L051.00	Legal abortion incomplete
41379	L052.11	Medical abortion - complete
49849	L052.12	Surgical abortion - complete
906	L100.00	Threatened abortion
96598	Z22CE00	Number of induced abortions
29940	L042z00	Complete spontaneous abortion NOS
94270	L043x00	Unspecified inevitable abortion with unspec complication
68511	L040100	Unspec spontaneous abortion + delayed/excessive haemorrhage
68110	L043z00	Unspecified inevitable abortion without complication
101218	L051700	Incomplete medical abortion
63777	L045y00	Complete inevitable abortion with OS complication
62659	Lyu0200	[X]Other abortion

101050	L062000	Complete illegal abortion + genital tract/pelvic infection
33770	L05z.00	Legally induced abortion NOS
101666	L070300	Unspecified abortion with renal failure
105921	L072y00	Unspecified complete abortion + no mention of complication
107171	L042100	Complete spontaneous abortion +delayed/excessive haemorrhage
42458	L040.00	Spontaneous abortion unspecified
50653	L040.00	Incomp spontaneous abortion with no mention of complication
67076	L052x00	Complete legal abortion with complication NOS
4708	7E08800	
30276	L041z11	Dilation and curettage removal of missed abortion  Retained products after spontaneous abortion
29594	L072z00	Unspecified complete abortion NOS
23693	L072200 L097100	Readmission for retained produc of concept, legal abortion
35701	L100000	Threatened abortion unspecified
		·
33989 45340	L045z00	Complete inevitable abortion without complication
	L040111	Spontaneous abortion with heavy bleeding
102648	6776100	Pre-termination counselling
17294	6776.13	Termination counselling
100568	7F10y00	Other specified surgical induction of labour
96821	Q212000	Liveborn with prelabour abnormal heart beat
23664	63E00	Labour details
97459	L300700	Obstructed labour due to compound presentation
64976	Z243200	First stage of labour not established
73308	L29z.00	Problems affecting labour NOS
66578	L3100	Abnormal forces of labour
54127	Z255.00	Observation of second stage of labour
109523	L307000	Other failed trial of labour unspecified
102969	Q213200	Liveborn with labour meconium in liquor
29434	63E3.00	Normal labour
23316		False labour
72779	L30z.00	Obstructed labour NOS
67423	Z23AG00	Hypertonic lower uterine segment during labour
72736	Z246200	Onset of labour first stage
20809	L1400	Early or threatened labour
3088	7F11.00	Other induction of labour
108764	L29y.00	Other problems affecting labour
23525	L141.00	Other threatened labour
34981	7F10z00	Surgical induction of labour NOS
64395	Z255D00	Ability to push in labour
70850	Q212100	Liveborn with prelabour hypoxia
103105	L293.00	Septicaemia during labour
63287	Z2400	Labour observations
83541	Z243500	Normal length of first stage of labour
49302	Z243100	First stage of labour established
33632	7F11200	Syntocinon induction of labour
93041	Z246700	Onset of second stage of labour

64692	L141z00	Other threatened labour NOS
92738	ZNA2300	Does perform labouring activities
36756	L386.00	Toxic reaction to local anaesthesia during labour and deliv
49858	Z23G.00	Uterine observation in labour
64206	L313z00	Precipitate labour NOS
109569	L313000	Precipitate labour unspecified
25428	Z246211	Start of labour
23674	L291.11	Failed medical induction of labour
87342	Z244100	Observation of duration of labour
50876	H472.00	Asp pneumonitis due to anaesthesia during labour and deliv
93735	Z246A00	Total duration of labour
71189	Z244400	Late onset of labour
22115	7F10.00	Surgical induction of labour
59789	L14z.00	Early or threatened labour NOS
54167	6322	2nd stage of labour length
44337	L307.00	Failed trial of labour unspecified
32555	L351000	Rupture of uterus during and after labour unspecified
3004	L1411	Premature labour
30782	632Z.00	
		Length of labour NOS
65867	7M35011	Entonox analgesia in labour
23549 66242	L31z.00 Z243400	Abnormality of forces of labour NOS
		Rapid first stage of labour
59445 94809	Z243800 Z256200	First stage of labour problem
99290	Z255800	Prolonged third stage of labour
40448	7F11100	Second stage of labour problem
56873	ZNA2200	Induction of labour using prostaglandins Unable to perform labouring activities
88775	7F11300	Medical induction of labour
	Z255700	
40724		Failure to progress in second stage of labour Other labourer NOS
45057	0Z3Z.00	
95570	L307z00	Failed trial of labour NOS
64732	Q213000	Liveborn with labour abnormal heart beat  Failed mechanical induction of labour
57002 13215	L290.11 63200	
		Length of labour  Relation of onset of labour to due date
48484	Z244500 6323	
49953		3rd stage of labour length
33421	7F11000	Oxytocic induction of labour
35628	L321.00	Prolonged labour unspecified
100252	Z255J00	Pushing involuntarily in labour
98422	Q213100	Liveborn with labour hypoxia
63022	L281500	Prem rupture of membranes onset of labour after 24 hours  Other problems affecting labour NOS
103000	L29yz00	Other problems affecting labour NOS
98003	Z23B400	Contraction of uterus during labour
73319	L302.00	Obstructed labour caused by pelvic soft tissues
55225	L32z.00	Prolonged labour NOS

44006	71.405000	
41036	7M35000	Gas and air analgesia in labour
104405	Z256100	Normal length of third stage of labour
71720	L350z00	Rupture of uterus before labour NOS
60124	Z243411	Rapid progress in first stage of labour
71171	L350000	Rupture of uterus before labour unspecified
106135	Z244200	Long duration of labour
94874	Z244300	Short duration of labour
103154	L321z00	Prolonged labour NOS
65243	L141000	Other threatened labour unspecified
60255	L351z00	Rupture of uterus during and after labour NOS
99968	L321000	Unspecified prolonged labour, unspecified
3272	7F11z00	Other induction of labour NOS
44306	L126600	Eclampsia in labour
48708	Z244411	Postmature labour
95354	Z255300	Progess of second stage of labour
62622	L30z000	Obstructed labour NOS, unspecified
108419	L38X.00	Complication of anaesthesia during labour and deliv unsp
40702	Z243600	Slow progress in first stage of labour
37267	L301400	Obstructed labour due to generally contracted pelvis
61611	7F1A400	Trial of labour NEC
22261	Z241100	Onset of labour induced
65900	Z243300	Progress of labour - first stage
32997	6321	1st stage of labour length
29071	7L16000	Intravenous induction of labour
54596	L140200	False labour at or after 37 completed weeks of gestation
42101	L140z00	Threatened premature labour NOS
32877	L350.00	Ruptured uterus before labour
107198	L292000	Unspecified maternal pyrexia during labour, unspecified
97907	L2900	Other problems affecting labour
819	L3000	Obstructed labour
24447	7F25.13	Monitoring during labour
73331	Z246900	Duration of second stage of labour
21626	63E1.00	Spontaneous onset of labour
100563	L302000	Obstructed labour caused by pelvic soft tissues unspecified
23548	L301.00	Obstructed labour caused by bony pelvis
104746	L302z00	Obstructed labour caused by pelvic soft tissues NOS
48602	L3200	Long labour
36655	Z245.00	Observation of blood loss in labour
99170	Z243.00	Observation of first stage of labour
25112	Z241.00	Labour established
56915	Z249.00	Labour problem
62656	Z255400	Rapid second stage of labour
94396	L30zz00	Obstructed labour NOS
29529	L351.00	Rupture of uterus during and after labour
102136	L292z00	Unspecified maternal pyrexia during labour NOS

40080	7F11y00	Other specified other induction of labour
46297	Z246311	Onset of labour pains
60333	L301500	Obstructed labour due to pelvic inlet contraction
85226	Lyu4000	[X]Other failed induction of labour
103056	Z244.00	Observation of pattern of labour
64548	L281300	Prem rupture of membranes onset of labour within 24 hours
68319	L351300	Rupture of uterus during/after labour with postnatal problem
62278	L281400	Premature rupture of membranes, labour delayed by therapy
22613	Z248.00	Normal labour
90775	Z246.00	Observation of measures of labour
70150	Z246100	Duration of labour
28928	L140.00	Threatened premature labour
93205	Z255F00	Not pushing well in labour
99660	L300400	Obstructed labour due to face presentation
48274	Q212200	Liveborn with prelabour meconium in liquor
59296	L140000	Threatened premature labour unspecified
9294	L292.00	Maternal pyrexia during labour, unspecified
28830	Z242.00	Labour not established
104206	L29z000	Problems affecting labour NOS unspecified
28700	7F111	Labour operations
30001	L313.00	Precipitate labour
104716	Z255E11	Pushing well in labour
98918	Z247100	Expulsion of IUCD during third stage of labour
62600	L29zz00	Problems affecting labour NOS
364	7F13111	Lower uterine segment caesarean section (LSCS) NEC
13315	14Y0.00	Born by caesarean section
13316	14Y6.00	Born by emergency caesarean section
29155	7F1A000	Caesarean hysterectomy
10049	7F12111	Elective lower uterine segment caesarean section (LSCS)
12118	7F13300	Emergency caesarean section
72513	7F13200	Extraperitoneal caesarean section
15361	14Y2.00	Born by elective caesarean section
8192	Q473.00	Other hypothermia of newborn
3007	Q316.00	Newborn transitory tachypnoea
100616	ZV30100	[V]Singleton, born before admission to hospital
93976	Qyu4200	[X]Other bacterial sepsis of newborn
56336	Q40A100	Sepsis of newborn due to Escherichia coli
66999	Q474111	Newborn environmental hyperthermia
15985	ZV32.00	[V]Twin, mate stillborn
59878	Q463.00	Transitory ileus of newborn
10452	6333	Twins - both live born
93999	6339	Triplets - 3 still born
99418	Q482.00	Central nervous system dysfunction in newborn NOS
41064	Q484.00	Newborn drug reaction and intoxication
56888	Q483000	Newborn feeding problem, unspecified

13304	Q480.12	Seizures in newborn
53052	Q425.00	Late anaemia of newborn due to isoimmunisation
98857	ZV31200	[V]Twin, not hospitalised, mate live born
38852	Q311300	Aspiration of vomit in newborn
104697	G520000	Acute aseptic myocarditis of the newborn
55878	Q494.00	Transient myocardial ischaemia of newborn
108976	6318	Born in hospital
19577	Q417100	Cerebellar (nontraum) and post fossa haemorhage fet newborn
108501	Q484z00	Newborn drug reaction or intoxication NOS
88204	ZV30000	[V]Singleton, born in hospital
98669	Qyu4100	[X]Sepsis/newborn due to other+unspecified staphylococcus
15457	Q482y00	Other newborn abnormal cerebral signs
21839	Q480.11	Fits in newborn
12085	Q404.11	Umbilical stump infection of the newborn
72669	Q452.00	Newborn disseminated intravascular coagulation
20083	Q450.00	Haemorrhagic disease of the newborn
38877	R024z00	[D]Jaundice (not of newborn) NOS
8515	Q31y111	Cyanotic attacks of the newborn
110616	6338	Triplets-1 live+ 2 still born
57128	6336	Triplets - all live born
21468	ZV29100	[V]Newborn receiving special care
14813	Q481.00	Newborn cerebral irritability, unspecified
17482	Q474211	Thermal injury in newborn NEC
47693	Q40W.00	Sepsis of newborn due to other+unspecified streptococci
98366	Qyu4800	[X]Sepsis of newborn due to other+unspecified streptococci
23015	6334	Twins - 1 still + 1 live born
106918	Q44X.00	Trans disorder carbohydrate metab of fet and newborn unsp
57783	Q417000	Intracerebral (nontraumatic) haemorrhage of fet and newborn
9477	Q483.00	Feeding problems in newborn
32703	Q21z.12	Hypoxia in newborn NOS
36071	Q21z.11	Anoxia in newborn NOS
70538	Q475.00	Oedema of newborn unspecified
13300	Q477.00	Newborn breast engorgement
56476	Q482z00	Central nervous system dysfunction in newborn NOS
34502	6335	Twins - both still born
63044	ZV31z00	[V]Twin, mate liveborn, NOS
19579	Q448.00	Newborn late metabolic acidosis
90510	Q44T.00	Transitory metabolic disturbance of newborn, unspecified
64600	Q042.00	Fet newborn affect mat exposure to environml chem subs
89262	Q474z00	Newborn temperature regulation disorder NOS
73978	Qyu3800	[X]Other apnoea of newborn
22031	Q40y200	Septicaemia of newborn
45750	Q4z13	Newborn death
105039	44qW000	Newborn blood spot screening
98938	Qyu6C00	[X]Transitory metabolic disturbance of newborn, unspecified

19585	Q483200	Slow fooding in nowborn
55895	Q483200 Q474200	Slow feeding in newborn  Hyperthermia in newborn, unspecified
31476	9114.11	FP58 - newborn registration
68065	9114.11	GP58 - newborn registration
104239	Q48F.00	Hypoxic ischaemic encephalopathy of newborn
69413	ZV33000	[V]Twin, unspecified, born in hospital
54589		Acquired neutropenia in newborn
26871	D400700	
	Q318.00	Primary sleep apnoea of newborn
105139	Qyu3700	[X]Other and unspecified atelectasis of newborn
93859	Qyu8400	[X]Hypothermia of newborn, unspecified
20478	ZV27200	[V]Twins, both live born
42527	Q4211	Isoimmunisation of newborn
98721	P320011	Newborn glaucoma
19947	ZV31.00	[V]Twin, mate live born
97799	Qyu3900	[X]Other specified respiratory conditions of newborn
3613	Q40A.00	Sepsis of the newborn
109480	44qW100	Completion of newborn blood spot screening card
40296	Q46X.00	Intestinal obstruction of newborn, unspecified
39165	Q483100	Newborn regurgitation of food
3615	Q436200	Newborn physiological jaundice NOS
72352	Q474300	Transitory fever of newborn
40867	Q485100	Withdrawal symptoms from therapeutic use of drugs in newborn
61943	Q483400	Rumination in newborn
5173	Q421.11	ABO isoimmunisation of the newborn
5218	6316	Born before arrival
56210	Q311100	Aspiration of liquor or mucus in newborn
109128	Qyu5100	[X]Other umbilical haemorrhages of newborn
108994	13If000	Unborn child is cause for safeguarding concern
43366	Q207011	Phrenic nerve palsy in newborn
52525	Q462.00	Newborn swallowing maternal blood - haematemesis/melaena
61729	Q482100	Coma in newborn
99425	QyuA400	[X]Disorder of muscle tone of newborn, unspecified
47446	Q474000	Newborn dehydration fever
44256	9Ea4.00	Unborn child at risk physi/ment abnormal serious handicap
61800	Q437z00	Kernicterus of newborn NOS
104301	13lv000	Unborn child subject to child protection plan
34504	Q485.00	Newborn drug withdrawal syndrome
23876	Q487.00	Umbilical polyp of newborn
56909	Q411200	Intraventric (nontraumatic) haemorhage grade 3 fet newborn
41053	Q483z11	Bottle feeding problem in the newborn
95873	Q446600	Disturbances of potassium balance of newborn
52577	Q483500	Underfeeding in newborn
28758	ZV29200	[V]Newborn receiving intensive care
47227	ZV27300	[V]Twins, one live born and one stillborn
38890	ZV27400	[V]Twins, both stillborn

4 4 6 6 6	71/24/22	Date the state of
44238	ZV31000	[V]Twin, born in hospital, mate live born
50017	Q472.00	Newborn cold injury syndrome
101103	Q214200	Liveborn with meconium liquor, unspecified
109703	41G4.00	Newborn blood spot specimen received
98336	Q311113	Aspiration of amniotic fluid in newborn
64262	Q311112	Aspiration of liquor in newborn
36845	Q311111	Aspiration of mucus in newborn
73521	QyuA200	[X]Other disorders of muscle tone of newborn
72705	QyuA000	[X]Oth specified disturbances of cerebral status of newborn
57674	Q411100	Intraventric (nontraumatic) haemorhage grade 2 fet newborn
65792	Q484000	Grey syndrome of newborn
68254	Q474100	Newborn environmental pyrexia
19576	Q31y600	Apnoea of newborn
97418	Q3012	Pulmonary hypoperfusion syndrome of newborn
108359	ZV30200	[V]Singleton, born outside hospital and not hospitalised
101529	ZV32z00	[V]Twin, mate stillborn, NOS
86001	ZV32000	[V]Twin, born in hospital, mate stillborn
95736	Qyu8000	[X]Other hypothermia of newborn
48664	Q444111	Hypocalcaemic tetany in newborn
11509	Q483300	Vomiting in newborn
99244	Q446500	Disturbances of sodium balance of newborn
19578	Q483600	Overfeeding in newborn
39691	Q40A000	Sepsis of newborn due to Staphylococcus aureus
93597	Q311200	Aspiration of blood in newborn
72704	Qyu3000	[X]Other respiratory distress of newborn
94759	Q214000	Liveborn with abnormal heart beat, unspecified
103401	Q466111	Intestinal obstruction in newborn due to faecoliths
104825	Q453.00	Other newborn transient coagulation defect
47317	Q483z00	Newborn feeding problem NOS
53402	Q483z12	Breast feeding problem in the newborn
110294	QyuA100	[X]Other feeding problems of newborn
73036	6337	Triplets -2 live+ 1 still born
59694	Q411000	Intraventric (nontraumatic) haemorhage grade 1 fet newborn
20005	Q480.00	Convulsions in newborn
26682	Q404.00	Omphalitis of the newborn
37044	Q450.11	Vitamin K deficiency of the newborn
25091	Z23AP00	Premature uterine contraction
102737	L112300	Premature separation of placenta with coagulation defect
53829	L281z00	Premature rupture of membranes NOS
424	L281.00	Premature rupture of membranes
108033	Lyu3D00	[X]Other premature separation of placenta
69713	L281000	Premature rupture of membranes unspecified
59452	L264000	Intrauterine death unspecified
4697	Q10z.11	Intrauterine growth retardation
1413	L264.00	Intrauterine death

00500	7504600	Induction to a particular control of the control of
89588	7E0A600	Intrauterine insemination without superovulation donor sperm Intrauterine death NOS
37831	L264z00	
111544	7E0A500	Intrauterine insemination without superovulat partner sperm
48471	PF6D200	Intrauterine amputation of lower limb
91652	7E0A300	Intrauterine insemination superovulation partner sperm
88271	7E0A400	Intrauterine insemination superovulation using donor sperm
36694	Q2111	Intrauterine hypoxia
9542	L265311	Maternal care for intrauterine growth retardation
57522	Q451y11	Neonatal thrombocytopenia due to platelet alloimmunisation
44062	A984000	Neonatal gonococcal conjunctivits
41151	Q406611	Neonatal viral dacryocystitis or conjunctivitis
45852	Q406613	Neonatal conjunctivitis due to virus
18439	44qW.00	Neonatal screening test
63783	Q407y00	Other specified neonatal candida infection
71752	Q457000	Neonatal isoimmune neutropenia
30795	Q492.00	Neonatal hypertension
109861	Q444100	Other neonatal hypocalcaemia
53387	1416.00	H/O: neonatal abstinence syndrome
13297	Q447.00	Neonatal hypoglycaemia
110197	Q44y.00	Other transitory neonatal endocrine and metabolic problem
95112	Q407511	Neonatal monilial septicaemia
31315	Q4111	Neonatal haemorrhage
11629	2FX00	O/E - Umbilical stump - neonatal
99830	Q446y00	Other specified transitory neonatal electrolyte disturbance
52572	Q406300	Neonatal dacryocystitis or conjunctivitis due to E.Coli
67105	Q446300	Transitory neonatal hyperkalaemia
73994	Q406400	Neonatal dacryocystitis/conjunctivitis due to staphylococcus
32722	9kJ00	Neonatal check - enhanced services administration
18991	313K.00	Neonatal hearing test
100646	67AD.00	Neonatal feeding education
37782	F251100	Neonatal myoclonic epilepsy
70045	Q45y.00	Other specified transient neonatal blood disorder
13302	Q407.12	Neonatal thrush
40123	Q407.11	Neonatal monilia
72350	Q451y00	Other specified transient neonatal thrombocytopenia
97518	Q451z00	Transient neonatal thrombocytopenia NOS
48202	Q48A.00	Neonatal cerebral leukomalacia
29743	Q407000	Neonatal candidiasis of mouth
29715	Q406.00	Neonatal dacryocystitis and conjunctivitis
55492	Q447000	latrogenic neonatal hypoglycaemia
69813	Q407z00	Neonatal candida infection NOS
8069	Q433A00	Neonatal jaundice from breast milk inhibitor
3211	Q433200	Breast feeding inhibitors causing neonatal jaundice
7818	Q31y500	Neonatal snuffles
26686	Q485200	Neonatal Abstinence Syndrome

17940	F4F5400	Neonatal nasolacrimal duct obstruction
64472	Q44V.00	Neonatal goitre, not elsewhere classified
32327	Q406712	Neonatal conjunctivitis due to chlamydiae
94578	Q457z00	Transient neonatal neutropenia NOS
46817	Q446200	Transitory neonatal hyponatraemia
93307	Q41y400	Neonatal rectal haemorrhage
72370	J004400	Neonatal enamel hypoplasia
93210	Q446z00	Transitory neonatal electrolyte disturbance NOS
36127	Q406412	Neonatal conjunctivitis due to staphylococcus
26678	Q406411	Neonatal dacryocystitis due to staphylococcus
21472	Q441.00	Neonatal diabetes mellitus
48010	Q443.00	Neonatal thyrotoxicosis
39055	9kJ0.00	Neonatal check - enhanced service completed
15487	Q407100	Neonatal candidiasis of perineum
28292	Q405.00	Neonatal infective mastitis
16482	Q407.00	Neonatal candida infection
2240	Q4z12	Neonatal death
109658	Qyu5300	[X]Other neonatal gastrointestinal haemorrhage
53603	Q48C.00	Neonatal hypotension
17496	Q31y511	Neonatal sniffles
48638	Q433800	Neonatal jaundice with porphyria
28341	Q48y600	Early neonatal death
44358	Q44y000	Transitory neonatal tyrosinaemia
63759	Q406y00	Other specified neonatal dacryocystitis or conjunctivitis
23422	Q406100	Neonatal conjunctivitis
51913	Q41y300	Neonatal melaena
38485	7L13000	Neonatal exchange blood transfusion
35727	Q407200	Neonatal candidiasis of other skin
49769	ZV29000	[V]Normal level of neonatal care
45303	Q433000	Delayed conjugation causing neonatal jaundice, unspecified
55360	Q433z00	Delayed conjugation causing neonatal jaundice NOS
30742	F13z500	Benign neonatal sleep myoclonus
21164	Q48y411	Neonatal 'craniotabes'
56614	Q488.00	Neonatal cerebral ischaemia
104194	2L00	Neonatal examination
38163	Q46y100	Neonatal diarrhoea
45444	Q457.00	Transient neonatal neutropenia
36564	Q48y700	Late neonatal death
45012	Q44U.00	Transitory neonatal endocrine disorder, unspecified
49516	Q414300	Neonatal vaginal haemorrhage
27845	Q446000	Neonatal dehydration
93156	Q433y11	Neonatal jaundice - deficiency enzyme for bilirubin conjug.
65686	Q444.12	Neonatal hypoparathroidism
72347	Q406800	Neonatal dacryocystitis/conjunctivitis-other inclusion body
72494	Q406812	Neonatal conjunctivitis due to other inclusion body

43576	Q406811	Neonatal dacryocystitis due to other inclusion body
27962	Q311400	Neonatal aspiration of milk and regurgitated food
24792	Q31y611	Neonatal apnoeic attack
106500	Q44A.00	Neonatal hypoparathyroidism
27793	Q406700	Neonatal dacryocystitis or conjunctivitis due to chlamydiae
35507	Q433.00	Other neonatal jaundice - delayed conjugation other cause
58833	Q433700	Neonatal jaundice with congenital hypothyroidism
47909	Q449.00	Neonatal tetany without calcium or magnesium deficiency
71056	Q433y00	Delayed conjugation causing neonatal jaundice OS
37776	Q446100	Transitory neonatal hypernatraemia
91557	Q406z00	Neonatal dacryocystitis or conjunctivitis NOS
23566	Q490.00	Neonatal cardiac failure
35477	Qyu5A00	[X]Neonatal jaundice from other+unspcf hepatocellular damage
28361	Q436100	Transient neonatal hyperbilirubinaemia
48869	Qyu5900	[X]Neonatal jaundice due/other specifd excessive haemolysis
64999	Q406200	Neonatal dacryocystitis
55634	Q442.00	Neonatal myasthenia gravis
18578	Q47y200	Neonatal skin infection
20894	Q444.00	Neonatal hypocalcaemia
37953	Q444z00	Neonatal hypocalcaemia NOS
55689	Q407500	Neonatal candida septicaemia
104225	Q434100	Giant cell hepatitis causing neonatal jaundice
39574	Q406512	Neonatal conjunctivitis due to other bacteria
37045	Q406511	Neonatal dacryocystitis due to other bacteria
68264	Q406600	Neonatal dacryocystitis or conjunctivitis due to virus
54971	Q446.00	Other transitory neonatal electrolyte disturbance
66985	Q433600	Neonatal jaundice with Gilbert's syndrome
39164	Q430000	Neonatal jaundice + glucose-6-phosphate dehydrogenase defic.
99435	N000500	Neonatal lupus erythematosus
6097	Q40y100	Neonatal urinary tract infection
40869	Qyu5B00	[X]Neonatal jaundice from other specified causes
57203	Q445.00	Neonatal hypomagnesaemia
106854	Q451100	Trans neonatal thrombocyto due to idopath matern thrombocyto
54169	Q491.00	Neonatal cardiac dysrhythmia
105058	Qyu3300	[X]Other neonatal aspiration syndromes
109912	Qyu6200	[X]Other neonatal hypocalcaemia
49462	Q41y200	Neonatal haematemesis
110458	Q3200	Neonatal respiratory distress syndrome
13301	Q478.00	Neonatal erythema toxicum
94612	Q433500	Neonatal jaundice with Dubin-Johnson syndrome
7475	ZV29212	[V]Neonatal care on NNU
47540	ZV29211	[V]Neonatal care on ITU
68708	Q406311	Neonatal dacryocystitis due to E.Coli
89700	Q406312	Neonatal conjunctivitis due to E.coli
71441	Q451.00	Transient neonatal thrombocytopenia

54473	L244000	Other uterine/pelvic floor abnormal affecting obstetric care
85245	7F26z00	Routine obstetric scan NOS
55573	8HJ7.00	Obstetric self-referral
88229	7F2A.00	Obstetric Doppler studies
78449	7F28.00	Other non routine obstetric scan
68966	Lyu7.00	[X]Other obstetric conditions, not elsewhere classified
105817	9381	Obstetric coop card issued
93136	L241000	Tumour of uterine body affecting obstetric care
86011	7F26.00	Routine obstetric scan
35558	58412	U-S scan - obstetric, diagn.
55750	L353.00	Obstetric laceration of cervix
65231	9384	Obstetric laceration of cervix  Obstetric coop card updated
106154	7F2Ay00	Other specified obstetric Doppler studies
109880	7F2Ay00 7F2Az11	Obstetric doppler ultrasound NOS
	8HMN.00	Listed for Obstetric admission
48200 51929	L354.11	High vaginal laceration - obstetric
34843	L352.11	Inversion of uterus - obstetric
		Under care of obstetrician
44286	ZL1C200	
4797	5842	U-S obstetric scan normal
49661	7Fy00	Other specified obstetric operations
47156	L357.00	Obstetric trauma causing pelvic haematoma Obstetric examination NOS
26698	27Z00	
104979	L354z00	Obstetric high vaginal laceration NOS Obstetric inversion of uterus NOS
94444	L352z00	
2382	584Z.00	U-S obstetric diagn. scan NOS
71742	L354000	Obstetric high vaginal laceration unspecified
20826	L241011 27111	Uterine fibroid affecting obstetric care
13318		O/E - fundus size - obstetric
94059		Obstetric Doppler studies NOS
28730	L355.11	Bladder injury - obstetric
27916	L353.12	Tear of cervix - obstetric
86021	7F24.00	Other obstetric operations
22929	8H3C.00	Non-urgent obstetric admission
105146	7F2Ay11	Other specified obstetric doppler ultrasound
69458	L354.00	Obstetric high vaginal laceration
33352	L352.00	Obstetric inversion of uterus
23800	7F23.11	Immediate repair of obstetric tear
29685	5843	U-S obstetric scan abnormal
70607	7F23300	Immediate repair of minor obstetric laceration
24655	8H27.00	Admit obstetric emergency
106067	L246000	Other cervical abnormality affecting obstetric care
53094	7F25y00	Other specified obstetric monitoring
98057	L248000	Vulval abnormality affecting obstetric care
36959	L391.00	Obstetric shock
17911	L416.11	Piles - obstetric

10000	EQ4 00	Illtwoonund in abstatuia diagn
19800	58400	Ultrasound in obstetric diagn.
62012	7F2z.00	Other obstetric operations NOS
60870	938Z.00	Obstetric coop card NOS
20591	53900	Abdominal obstetric X-ray
23169	539Z.00	Abdominal obstetric X-ray NOS
98639	L43zz00	Obstetric pulmonary embolism NOS
101944	L43z000	Obstetric pulmonary embolism NOS, unspecified
34533	8HV6.00	Private referral to obstetrician
35197	8HLN.00	Obstetric D.V. done
104205	7F2A100	Obstetric uterine artery Doppler
102802	7F2By00	Other specified obstetric ultrasound monitoring
12625	7F25.00	Obstetric monitoring
57891	7F23.00	Immediate repair of obstetric laceration
54582	L35zz00	Obstetric trauma NOS
13965	58413	Ultra-sound scan - obstetric
96343	7F26y00	Other specified routine obstetric scan
100451	7F24100	Obstetric uterine tamponade
27019	5841	U-S obstetric scan requested
87848	7F2Bz00	Obstetric ultrasound monitoring NOS
91278	L357000	Obstetric pelvic haematoma unspecified
36340	93800	Obstetric coop card
19327	L411.11	Perineal obstetric varicose veins
20496	L411.12	Vulval obstetric varicose veins
27650	L384.00	Obstetric spinal and epidural anaesthesia-induced headache
107037	Lyu4C00	[X]Other specified obstetric trauma
43628	L247011	Septate vagina affecting obstetric care
11988	8H57.00	Obstetric referral
11204	27112	O/E - uterus size - obstetric
48311	Z261.00	Observation of gestational sac
43004	Q1300	Light for gestational age
22385	Z22C300	Length of gestation
91915	7M0f400	From 9 weeks to <14 weeks gestational age
50704	Q113.00	Light for gestational age
69250	L169000	Herpes gestationis unspecified
59681	L41z511	Gestational phlebitis NOS
34265	L16C000	Gestational proteinuria
60330	L1900	Complications specific to multiple gestation
34505	62X3.00	Full term gestation - 40 weeks
90884	7M0f200	9 - 13 weeks gestational age
29565	L161.13	Gestational oedema
102435	8CE0000	Gestational diabetes information leaflet given
34484	62X1.00	Gestation = 24 weeks
49663	Z261100	Gestational sac present
7515	L169.00	Herpes gestationis
37201	L16C100	Gestational oedema with proteinuria

50081	L41z512	Gestational phlebopathy NOS
58971	L41z513	Gestational thrombosis NOS
16975	L2111	Gestation - multiple
97682	7M0fy00	Other specified gestational age
95702	7M0f300	Under 9 weeks gestational age
108013	ZC2CB00	Dietary advice for gestational diabetes
26556	62X2.00	Gestation >24 weeks
26555	62X0.00	Gestation <24 weeks
111075	Qyu1200	[X]Other 'heavy for gestational age' infants
86327	7M0f000	Over 20 weeks gestational age
91101	7M0fz00	Gestational age NOS
103954	62X5.00	Length of gestation at time of test
2664	L180900	Gestational diabetes mellitus
95703	7M0f100	14 - 20 weeks gestational age
8446	L180811	Gestational diabetes mellitus
40703	L169z00	Herpes gestationis NOS
43805	Z22C312	Duration of gestation
18810	62X00	Length of gestation
103090	Lyu3000	[X]Other multiple gestation
55352	7M0f.00	Gestational age
21526	L123500	Gestational hypertension

colour	condition	time frame
green	pregnancy	7/12 mths
blue	birth	<21 days postpartum
yellow	abortion/ miscarrage	<5 days

## Appendix 4: Additional CPRD browser pregnancy medcodes

Medcode	Readcode	Readterm
6298	ZV28.00	[V]Antenatal screening
94405	L413100	Antenatal deep vein thrombosis - delivered
99188	L173.00	Maternal tuberculosis in pregnancy/childbirth/puerperium
63781	L410z00	Varicose veins of legs in pregnancy and puerperium NOS
45870	Ly00	Complications of pregnancy, childbirth or the puerperium OS
52106	L412z00	Superficial thrombophlebitis in pregnancy and puerperium NOS
86991	L172000	Other maternal venereal disease, unspec pregnancy/puerperium
4243	L466.00	Galactorrhoea in pregnancy and the puerperium
70092	L460.00	Retracted nipple in pregnancy, the puerperium or lactation

16995	L462.00	Breast engorgement in pregnancy, the puerperium or lactation
59573	L176500	Viral hepatitis comp pregnancy, childbirth & the puerperium
88361	L248.11	Persistent hymen in pregnancy, childbirth and the puerperium
31610	L248.13	Vulval abnormality in pregnancy/childbirth/puerperium
92998	Lyu1.00	[X]Oedema, proteinuria + hypertens in pregnancy, childbrth, puerp
20597	12G4.00	FH: Multiple pregnancy
28446	Lz00	Complications of pregnancy, childbirth and the puerperium NOS
63835	L247z11	Septate vagina in pregnancy/childbirth/puerperium NOS
109550	L416400	Haemorrhoids in pregnancy and puerperium with p/n comp
59276	L032.00	Ovarian pregnancy
65579	L415.00	Other phlebitis and thrombosis in pregnancy and puerperium
93143	L121.00	Renal hypertension in pregnancy/childbirth/puerperium
60154	L2400	Pelvic soft tissue abnormality in pregnancy/childbirth/puerp
71717	L121100	Renal hypertension in pregnancy/childbirth/puerp - delivered
24006	L466100	Galactorrhoea in pregnancy and the puerperium - delivered
44069	L1800	Other medical condition in pregnancy/childbirth/puerperium
47918	L090300	Salpingitis following abortive pregnancy
11152	L00	Complications of pregnancy, childbirth and the puerperium
63644	L181z00	Thyroid dysfunction in pregnancy/childbirth/puerperium NOS
96004	L183z00	Drug dependence during pregnancy/childbirth/puerperium NOS
1771	L182.00	Anaemia during pregnancy, childbirth and the puerperium
46744	L4100	Venous complications of pregnancy and the puerperium
90329	L416z00	Haemorrhoids in pregnancy and the puerperium NOS
41050	Z200	Pregnancy, childbirth and puerperium observations
39550	L244z11	Cystocele in pregnancy, childbirth or the puerperium NOS
64147	L244z12	Rectocele in pregnancy, childbirth or the puerperium NOS
15297	L461400	Cracked nipple in pregnancy/puerperium/lactation + p/n comp
73717	L463300	Other breast disorder in pregnancy/puerperium/lact +a/n comp
98264	L165200	Asymptomatic bacteriuria in pregnancy - del with p/n comp
53310	L1z00	Complications of pregnancy/childbirth/puerperium NOS
103144	L416300	Haemorrhoids in pregnancy and puerperium with a/n comp
46756	L184.00	Mental disorders in pregnancy, childbirth and the puerperium
26023	L411300	VV's of perineum/vulva in pregnancy/puerperium + a/n comp
58140	L173000	Maternal tuberculosis, unspec whether in pregnancy/puerperium
73089	L460000	Retracted nipple in pregnancy/puerperium/lactation unspec
67006	L096400	Pulmonary embolism following abortive pregnancy
65085	L092000	Bladder damage following abortive pregnancy
23840	L090z00	Septicaemia NOS following abortive pregnancy
51359	L090200	Pelvic peritonitis following abortive pregnancy
106097	L09y.00	Other specified complication following abortive pregnancy
12604	L120.00	Benign essential hypertension in pregnancy/childbirth/puerp

103683	8Hki.00	Referral to teenage pregnancy and parenting support service
42091	L411z00	Varicose veins of perineum/vulva in pregnancy/puerperium NOS
96437	L170000	Maternal syphilis, unspec whether in pregnancy or puerperium
20850	L244.11	Cystocele in pregnancy, childbirth and the puerperium
35903	L244.12	Pendulous abdomen in pregnancy, childbirth and the puerperium
39492	L244.13	Rectocele in pregnancy, childbirth and the puerperium
71943	L411000	VV's of perineum/vulva in pregnancy/puerperium unspecified
93583	L096.00	Embolism following abortive pregnancy
34182	1547	H/O: medical termination of pregnancy
70422	L093400	Uraemia following abortive pregnancy
103222	L248z11	Persistent hymen in pregnancy/childbirth/puerperium NOS
97296	L461200	Cracked nipple in pregnancy/puerp/lact - deliv + p/n comp
5541	1544	H/O: ectopic pregnancy
58982	L186.00	Other cardiovascular diseases in pregnancy/childbirth/puerp
62886	L461z00	Cracked nipple in pregnancy, the puerperium or lactation NOS
41473	L183.00	Drug dependence in pregnancy, childbirth and the puerperium
48552	L010.11	Anembryonic pregnancy
33634	L182z00	Anaemia during pregnancy/childbirth/puerperium NOS
64384	L180z00	Diabetes mellitus in pregnancy/childbirth/puerperium NOS
25759	L411.00	VV's of perineum/vulva in pregnancy/puerperium
38556	67A7.00	Pregnancy dental advice
41718	L1y00	Complications of pregnancy/childbirth/puerperium OS
53056	L246.11	Polyp of cervix in pregnancy, childbirth and the puerperium
73557	L188z00	Abnormal GTT in pregnancy/childbirth/puerperium NOS
69012	L466300	Galactorrhoea in pregnancy/puerperium with a/n complication
57131	L462100	Breast engorgement in pregnancy/puerperium/lactation - deliv
64260	L18D.00	Dis nervous syst complic pregnancy, childbirth and puerperium
59493	L090400	Salpingo-oophoritis following abortive pregnancy
104656	Ly200	Sequelae of complication pregnancy childbirth and puerperium
16046	L410.00	Varicose veins of legs in pregnancy and the puerperium
72215	L241z00	Uterine body tumour in pregnancy/childbirth/puerperium NOS
13245	12G2.00	FH: Diabetes in pregnancy
106736	9mK1.00	Pertussis vaccination in pregnancy invitation second letter
66537	L170100	Maternal syphilis during pregnancy - baby delivered
92415	L095.00	Shock following abortive pregnancy
35273	L097.00	Readmission for abortive pregnancy (NHS codes)
20152	L090y00	Sepsis NOS following abortion/ectopic/molar pregnancy
50009	L461100	Cracked nipple in pregnancy/puerperium/lactation - delivered
71162	L16y100	Other pregnancy complication - delivered
102635	8Cg00	Pregnancy termination care
104806	L463100	Other breast disorder in pregnancy/puerperium/lact - deliv

63319	L096.11	Embolus following abortive pregnancy
94527	L16y400	Other pregnancy complication with postnatal complication
9170	L1200	Hypertension complicating pregnancy/childbirth/puerperium
73432	L18z100	Medical condition NOS during pregnancy - baby delivered
104466	L179.00	HIV disease complicating pregnancy childbirth puerperium
47197	L410400	Varicose veins of legs in pregnancy/puerperium + p/n comp
54761	L170.00	Maternal syphilis in pregnancy/childbirth/puerperium
63773	L416100	Haemorrhoids in pregnancy and the puerperium - delivered
101499	L246z12	Stenosis of cervix in pregnancy/childbirth/puerperium NOS
33255	L246z11	Polyp of cervix in pregnancy/childbirth/puerperium NOS
56542	L240z11	Bicornuate uterus in pregnancy, childbirth or puerperium NOS
41016	L247.11	Septate vagina in pregnancy, childbirth and the puerperium
40262	L247.13	Vaginal abnormality in pregnancy/childbirth/puerperium
6478	L188.00	Abnormal glucose tolerance test in pregnancy/childb/puerp
59910	L17z.00	Maternal infect/parasitic dis NOS in pregnancy/childb/puerp
62052	L092500	Uterus damage following abortive pregnancy
97836	L242100	Uterine operation scar in pregnancy/childbirth/puerp - deliv
99889	L16A200	Glycosuria during pregnancy - delivered with p/n comp
98981	L166400	Genitourinary tract infection in pregnancy with p/n comp
59601	L462200	Breast engorgement in pregnancy/puerp/lact - del + p/n comp
16017	L166100	Genitourinary tract infection in pregnancy - delivered
10205	ZG900	Advice relating to pregnancy and fertility
105500	L41yz00	Other venous complication of pregnancy and puerperium NOS
41283	L187.00	Orthopaedic disorders in pregnancy/childbirth/puerperium
63379	L183100	Drug dependence during pregnancy - baby delivered
38871	L246.00	Other cervical abnormality in pregnancy/childbirth/puerp
47686	L181.00	Thyroid dysfunction in pregnancy/childbirth/puerperium
23691	L172.00	Other venereal diseases in pregnancy/childbirth/puerperium
107197	L170z00	Maternal syphilis in pregnancy/childbirth/puerperium NOS
68215	L188100	Abnormal GTT during pregnancy - baby delivered
40723	L12z.00	Unspecified hypertension in pregnancy/childbirth/puerperium
104542	67AH.00	Education about toxoplasmosis precautions during pregnancy
97741	L461000	Cracked nipple in pregnancy/puerperium/lactation unspecified
67035	L123200	Transient hypertension of pregnancy - deliv with p/n comp
64125	L09yz00	Other specified complication NOS follow abortive pregnancy
57640	L242z00	Uterine operation scar in pregnancy/childbirth/puerp NOS
2924	7E06600	Hysterotomy and termination of pregnancy
27952	ZV13900	[V]PH comp of pregnancy, childbirth and the puerperium
53141	L241.00	Tumour of uterine body in pregnancy/childbirth/puerperium
35928	L463000	Other breast disorder in pregnancy/puerperium/lact unspec
40121	12G1.00	FH: Raised B.P. in pregnancy

11359	L180.00	Diabetes mellitus during pregnancy/childbirth/puerperium
33708	L182100	Anaemia during pregnancy - baby delivered
58686	L462000	Breast engorgement in pregnancy/puerperium/lactation unspec
6560	L416.00	Haemorrhoids in pregnancy and the puerperium
98133	9Ea0.00	Risk life pregnant woman greater than if pregnancy terminatd
32950	L03y100	Cornual pregnancy
105006	Q48G.00	Complication termination pregnancy affecting fetus newborn
107708	L415100	Other phlebitis/thrombosis in pregnancy/puerperium - deliv
28225	L240.11	Bicornuate uterus in pregnancy, childbirth and puerperium
49789	L240.12	Double uterus in pregnancy, childbirth and the puerperium
56217	L416000	Haemorrhoids in pregnancy and the puerperium unspecified
99154	L410000	Varicose veins of legs in pregnancy/puerperium unspecified
96724	L162100	Unspecified renal disease in pregnancy - delivered
101260	L10z100	Early pregnancy haemorrhage NOS - delivered
35859	67A5.00	Pregnancy alcohol advice
42598	L175.00	Maternal rubella in pregnancy, childbirth and the puerperium
72437	L248z00	Vulval abnormality in pregnancy/childbirth/puerperium NOS
101272	L462300	Breast engorgement in pregnancy/puerperium/lact + a/n comp
92362	L240z00	Congenital abnormality uterus in pregnancy/childb/puerp NOS
63362	L091100	Defibrination syndrome following abortive pregnancy
73311	L41z.00	Venous complications of pregnancy and puerperium NOS
34639	L180100	Diabetes mellitus during pregnancy - baby delivered
43754	L18z.00	Medical condition NOS in pregnancy/childbirth/puerperium
30948	L150100	Post-term pregnancy - delivered
73647	L188000	Abnormal GTT - unspec whether during pregnancy/puerperium
54681	L189.00	Dis resp syst comp pregnancy, childbirth & puerperium
99365	L460z00	Retracted nipple in pregnancy/puerperium/lactation NOS
64649	L175100	Maternal rubella during pregnancy - baby delivered
28611	L461.00	Cracked nipple in pregnancy, the puerperium or lactation
61144	L463.00	Other breast disorder in pregnancy/puerperium/lactation
50571	L090100	Parametritis following abortive pregnancy
70342	L123400	Transient hypertension of pregnancy + postnatal complication
99422	L187000	Orthopaedic disorder - unsp whether in pregnancy/puerperium
32007	L090.00	Genital or pelvic infection following abortive pregnancy
45242	L241.11	Uterine fibroids in pregnancy, childbirth and the puerperium
7270	12G4.11	FH: Twin pregnancy
38440	L462z00	Breast engorgement in pregnancy/puerperium/lactation NOS
89557	L092300	Cervix damage following abortive pregnancy
41961	L171.00	Maternal gonorrhoea during pregnancy/childbirth/puerperium
50908	L242.00	Uterine scar from previous surgery in pregnancy/childb/puerp
16752	ZV72900	[V]Pregnancy examination and test

14765	L462400	Breast engorgement in pregnancy/puerperium/lact + p/n comp
15633	L182000	Anaemia - unspecified whether in pregnancy or the puerperium
73757	L247z00	Vaginal abnormality in pregnancy/childbirth/puerperium NOS
99389	L460300	Retracted nipple in pregnancy/puerperium/lact with a/n comp
24303	9Ea00	Reason for termination of pregnancy
55757	L16y200	Other pregnancy complication - delivered with postnatal comp
67635	L180000	Diabetes mellitus - unspec whether in pregnancy/puerperium
51639	L241z11	Uterine fibroid in pregnancy/childbirth/puerperium NOS
40978	Z22A700	Surrogate pregnancy
18944	7E07011	Dilation cervix uteri & curettage for termination pregnancy
54107	L10z000	Early pregnancy haemorrhage NOS unspecified
103610	9NkN.00	Seen in early pregnancy unit
70476	L132100	Late pregnancy vomiting - delivered
23456	L412.00	Superficial thrombophlebitis in pregnancy and the puerperium
67377	L463z00	Other breast disorder in pregnancy/puerperium/lactation NOS
94736	L096600	Septic embolism following abortive pregnancy
94353	L175000	Maternal rubella, unspecified whether pregnancy/puerperium
64127	L121000	Renal hypertension in pregnancy/childbirth/puerp unspecified
99594	L415000	Other phlebitis/thrombosis in pregnancy/puerperium unsp
50093	L093000	Oliguria following abortive pregnancy
28312	L466z00	Galactorrhoea in pregnancy and the puerperium NOS
72944	L176.00	Other maternal viral dis. in pregnancy/childbirth/puerperium
49390	L174.00	Maternal malaria in pregnancy, childbirth and the puerperium
97629	L246z00	Other cervical abnormality in pregnancy/childbirth/puerp NOS
57419	L167100	Liver disorder in pregnancy - delivered
73927	L175z00	Maternal rubella in pregnancy/childbirth/puerperium NOS
54089	L466000	Galactorrhoea in pregnancy and the puerperium unspecified
94718	L121z00	Renal hypertension in pregnancy/childbirth/puerperium NOS
105918	L09y400	Urinary tract infection following abortive pregnancy
30326	L090000	Endometritis following abortive pregnancy
38022	Z22CF00	Date symptom of pregnancy first noted
69703	L185100	Congenital cardiovasc dis in pregnancy - baby delivered
69911	L18zz00	Medical condition NOS in pregnancy/childb/puerp NOS
35680	Q423.00	Hydrops fetalis due to isoimmunisation
59296	L140000	Threatened premature labour unspecified

# STROBE Statement—Checklist of items that should be included in reports of *cohort studies*

	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract
		Retrospective cohort study
		(b) Provide in the abstract an informative and balanced summary of what was done
		and what was found
		done
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported
		P4
Objectives	3	State specific objectives, including any prespecified hypotheses P5
Methods		
Study design	4	Present key elements of study design early in the paper Methods P5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment,
$\mathcal{E}$		exposure, follow-up, and data collection Population and data from CPRD P5
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of
1		participants. Describe methods of follow-up Inclusion criteria P6
		(b) For matched studies, give matching criteria and number of exposed and
		unexposed NA
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect
		modifiers. Give diagnostic criteria, if applicable Outcomes defined P6 and 7 Read
		codes in supplementary file
Data sources/	8*	For each variable of interest, give sources of data and details of methods of
measurement		assessment (measurement). Describe comparability of assessment methods if there i
		more than one group P5
Bias	9	Describe any efforts to address potential sources of bias NA
Study size	10	Explain how the study size was arrived at Used all available data in CPRD
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable,
		describe which groupings were chosen and why In methods
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding
		P6 and 7
		(b) Describe any methods used to examine subgroups and interactions NA
		(c) Explain how missing data were addressed NA
		(d) If applicable, explain how loss to follow-up was addressed NA
		(e) Describe any sensitivity analyses NA
Results		
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially
1	-	eligible, examined for eligibility, confirmed eligible, included in the study,
		completing follow-up, and analysed P7
		(b) Give reasons for non-participation at each stage
		(c) Consider use of a flow diagram
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and
r	-	information on exposures and potential confounders Table 1
		(b) Indicate number of participants with missing data for each variable of interest

		T 11 4
		Table 1
		(c) Summarise follow-up time (eg, average and total amount) P7
Outcome data	15*	Report numbers of outcome events or summary measures over time Tables
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and
		their precision (eg, 95% confidence interval). Make clear which confounders were
		adjusted for and why they were included NA
		(b) Report category boundaries when continuous variables were categorized Done
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a
		meaningful time period Absolute rates given
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and
		sensitivity analyses All analyses reported
Discussion		
Key results	18	Summarise key results with reference to study objectives P9 and 10
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	imprecision. Discuss both direction and magnitude of any potential bias P10 and 11
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations,
		multiplicity of analyses, results from similar studies, and other relevant evidence
		P11-13
Generalisability	21	Discuss the generalisability (external validity) of the study results P10 and 12
Other information		
Funding	22	Give the source of funding and the role of the funders for the present study and, if
		applicable, for the original study on which the present article is based P14

<sup>\*</sup>Give information separately for exposed and unexposed groups.

**Note:** An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at http://www.strobe-statement.org.

# **BMJ Open**

# Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

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Complete List of Authors:	Gompels, Mark; North Bristol NHS Trust, Department of Immunology, Southmead Hospital Michael, Skevi; University of Bristol, School of Mathematics Davies, Charlotte; University of Bristol, Department of Population Health Sciences, Bristol Medical School Jones, Tim; University of Bristol; University Hospitals Bristol NHS Foundation Trust, The National Institute for Health Research Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) Macleod, John; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions May, Margaret; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions					
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SCHOLARONE™ Manuscripts Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

M Gompels<sup>1</sup>, S Michael<sup>2</sup>, C F Davies<sup>3</sup>, T Jones<sup>3,4</sup>, John MacLeod<sup>3,5</sup>, M T May<sup>3,5</sup>

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<sup>1</sup> Dr Mark Gompels: Consultant HIV, Department of Immunology, Southmead Hospital, North Bristol NHS Trust, UK. Email: Mark.Gompels@nbt.nhs.uk

<sup>2</sup> Dr Skevi Michael: Senior Teaching Associate, School of Mathematics, University of Bristol, UK. Email: Skevi.Michael@bristol.ac.uk

<sup>3</sup> Dr Charlotte F Davies: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK. Email: <a href="mailto:Charlotte.Davies@bristol.ac.uk">Charlotte.Davies@bristol.ac.uk</a>
<sup>3,4</sup> Dr Timothy Jones: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute for Health Research

Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) at University Hospitals Bristol NHS Foundation Trust, Bristol, UK. Email: Timothy.Jones@bristol.ac.uk

<sup>3,5</sup> Professor John Macleod, Professor of Clinical Epidemiology and Primary Care, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions at University of Bristol, Bristol, UK. Email: John.Macleod@bristol.ac.uk

<sup>3,5</sup> Professor Margaret T May, Professor of Medical Statistics, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions at University of Bristol, Bristol, UK. Email: Margaret.may@bristol.ac.uk

## **Corresponding author:**

Dr. Charlotte F. Davies
Department of Population Health Sciences
Bristol Medical School
University of Bristol
Bristol
BS8 2PS
UK Telephone: +44 117 9287209

Fax: +44 117 928 7325

charlotte.davies@bristol.ac.uk

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#### Abstract 300

**Objectives:** To estimate trends in HIV testing, positivity and prevalence in UK Primary Care for 2000-2015 as part of a wider investigation into reasons for late diagnosis of HIV.

**Design:** Retrospective cohort study using the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care.

**Setting:** 404 General Practices in England.

**Participants:** 5,979,598 adults aged  $\geq$  16 years registered between 2000-2015 with 45,093,761 person years of observation.

**Outcomes:** Annual HIV testing rates, proportion of positive tests, and prevalence of HIV-infected people recorded in Primary Care 2000-2015.

Results: HIV testing in Primary Care increased from 2000 to 2010, but then declined. Testing was higher in females than males and in those aged 16-44 years compared with older adults. Rates per 100,000 in women aged 16-44 years were 177 (95% CI 167-188); 1309 (1282-1336); 1789 (1757-1821) and 839 (817-862) in 2000, 2005, 2010 and 2015, respectively, and for non-pregnant women: 22.5 (19-26); 134 (125-143); 262 (250-275); 190 (179, 201). For men aged 16-44 years rates were: 26 (22-29); 107 (100-115); 196 (185-206); 137 (127-146). Over the study period, there were approximately 2 positive results per 1000 HIV tests. Men were eight-fold more likely to test positive than women. The percentage of HIV diagnoses among adults recorded in CPRD may be as low as 55% in London and 67% in the rest of the UK.

**Conclusions**: HIV testing rates in Primary Care peaked in 2010 and subsequently declined. Access to testing was higher for women despite the prevalence of HIV being higher in men.

## Implications and further research needed:

Opportunities remain in Primary Care for increasing HIV testing to prevent costly late diagnoses and decrease HIV transmission. Interventions to improve targeting of tests and increase adherence to HIV testing guidelines are needed in Primary Care.

## **Article summary**

# Strengths and limitations of this study

- We investigated trends in HIV testing in Primary Care using high quality data from the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care in England.
- CPRD provided anonymised Primary Care records on patients registered between 2000 and 2015 in 404 primary care practices in England which is likely to be representative of the general patient population.
- A limitation of the study is that not all General Practices contribute data to CPRD and therefore we cannot know whether the sample was representative.
- A major strength of the study was the large number of patients, nearly 6 million, which allowed us to contrast trends in HIV testing rates in Primary Care by sex, age, deprivation, rural/urban location and whether in London or not.
- Data were available for 15 years of follow up allowing us to show that HIV testing in Primary Care in England increased between 2000 and 2010, but then declined up to 2015 despite several NICE recommendations aimed at promoting testing in this setting.

## Introduction

HIV testing in Primary Care is an important component of the strategy to diagnose HIV earlier and reduce transmission of HIV. In 2015 there were an estimated 89,800 (95% credible interval (CrI) 87,100-94,800) people living with HIV (PLWHIV) in England of whom approximately 15% (CrI 12-19%) were unaware of their infection¹. Of those individuals newly diagnosed with HIV in 2015, 39% were diagnosed late, defined as having a CD4 count below 350 cells/mL within three months of diagnosis.² An estimated 1 in 4 of newly diagnosed individuals experienced a missed opportunity for an earlier diagnosis within the healthcare system in the preceding year.³ Late diagnosis of HIV is associated with increased hospitalisations, decreased life expectancy,⁴-7 and higher treatment and care costs to the NHS.8 Importantly, individuals with undiagnosed HIV are likely to be responsible for the majority of transmissions because successfully treated individuals are unlikely to infect others.9

Universal HIV testing is considered to be cost-effective in areas with a local diagnosed HIV prevalence that exceeds 2 per 1000 in adults aged 15-59 years.<sup>2,10</sup> In these high HIV prevalence areas recommendations are an HIV test should be routinely offered to all new GP registrations, those undergoing tests for other sexually transmitted infections or having blood tests for any reason, and all new hospital medical admissions.<sup>2,11</sup> However, the majority of people with HIV seek medical care for a related condition several times prior to their HIV diagnosis.<sup>12,13</sup> This may be presenting to general practice or hospital care, but without a high degree of clinical suspicion, the diagnosis is often missed.<sup>14</sup> BHIVA has published a list of indicator diseases which are more commonly found in those who are HIV positive than negative.<sup>15</sup> HIV testing is recommended in these cases, but recent surveys suggest poor adherence to guidelines.<sup>16,17</sup>

Expanding HIV testing is a national health priority<sup>18</sup> with 2016 NICE guidelines offering evidence based advice on the practicalities of how to do this in the UK and how to integrate HIV testing into usual clinical care. <sup>11</sup>Regardless of local HIV prevalence, a test should be routinely offered to patients in Primary Care when presenting with any HIV indicator condition and/or if patients are from a high risk group, for example, someone reporting an HIV positive partner or a history of injecting drug use or chemsex. <sup>11</sup> Despite this, evidence from systematic reviews shows that there are often many barriers to testing experienced by patients and equally by the healthcare providers (HCP). <sup>19-21</sup> Patients presenting with clinical indicator conditions to their General Practitioner (GP) provide a valuable opportunity to diagnose HIV and avoid hospitalisations due to late diagnosis. <sup>22</sup> Research has shown that the majority of patients (up to 75%) newly diagnosed with HIV had been seen in the healthcare system within the 12 months prior to their diagnosis resulting in a missed opportunity to

test.<sup>12,14,23</sup> <sup>24</sup>Opt out HIV testing has been shown to be feasible, acceptable and cost effective in eight pilot studies conducted in community, primary and secondary care settings in high prevalence areas across England.<sup>18</sup> However, no recent evidence is available to know if HIV testing in Primary Care has been increasing and guidelines have been implemented over the country and not just in high risk areas.<sup>16,17</sup>

HIV testing in Primary Care has been reported only for the years 1995 to 2005 using data from the UK General Practice Research Database (GPRD).<sup>25</sup> This study showed that testing in Primary Care remained low, but increased steadily. We analysed data from the same source collected between 2000 to 2015 to establish whether HIV testing had increased in Primary Care. We investigated differences in HIV testing rates and HIV diagnosis by demographic characteristics and estimated the prevalence of HIV recorded in Primary Care and compared it with estimates from national surveillance.

#### Methods

## Population and data

We used data from the Clinical Practice Research Datalink (CPRD), previously known as the General Practice Research Database (GPRD), which is derived from computerised clinical records produced during consultations in Primary Care. CPRD provided anonymised Primary Care records on patients registered between 2000 and 2015 in 404 primary care practices in England. Data were available on nearly 6 million people aged over 16 years old who are broadly representative of the adult UK population<sup>26</sup>. General Practitioners (GP) enter data on tests, diagnoses and symptoms using Read codes which are a hierarchical alphanumeric system similar to, but more extensive than International Classification of Disease (ICD) codes. The list of Read codes used to identify (1) HIV tests<sup>25</sup> (2) HIV diagnoses<sup>25</sup> (3) pregnancy/delivery/abortion<sup>27</sup> and (4) additional CPRD browser pregnancy medcodes are listed as appendices 1 to 4, respectively, in the supplementary file. We used individual level quintiles of the Index of Multiple Deprivation, 2015<sup>28</sup>. Practices were classified as rural, urban conurbation, or city/town at lower super output level (a small area geographic boundary of around 1,500 people) in England based on Office for National Statistics classifications, 2011<sup>29</sup>, and as within or outside London. Ethnicity was grouped as Asian, Black African, Black Caribbean, Other, White, and unknown based on linked Hospital Episode Statistics data. We used national surveillance data from Public Health England (PHE) on testing in Primary Care derived from general practices that submit HIV tests to laboratories participating in the Sentinel Surveillance of Blood Borne Virus Testing (SSBBV). These practices cover 35% of England's Primary

Care population. HIV testing data is captured from 66% of the Primary Care population in extremely high prevalence areas (>5 /1000), 37% within high prevalence areas (>2/1000) and 29% within low prevalence areas. These data exclude any point of care tests (POCTs) carried out by GPs, and tests carried out as part of antenatal screening. The latest data available on testing rates and positivity were for 2015<sup>30</sup>. Data on HIV prevalence were derived from the HIV and AIDS Reporting System (HARS) and for earlier years the Survey of Prevalent HIV Infections Diagnosed (SOPHID) available from PHE.<sup>2</sup> These data were available up to 2015.

## **Patient and Public Involvement**

Public and Patients were not involved in the design of this study. Patient data from General Practices were contributed via CPRD and PHE surveillance as stated above.

## Statistical methods

HIV testing rate, positivity and prevalence of HIV recorded in primary care

Using data from CPRD we estimated the HIV testing rates for each year between 2000-2015, overall and by patient demographics. Testing rates were estimated for males and females, for all ages and grouped by age (16-44,  $\geq$  45 years - chosen to match the study by Evans et al<sup>25</sup>). We also estimated rates separately according to whether the practice was in London or not, and by type of location. For each calendar year, the denominator used to calculate the HIV testing rate was the number of patients who were in the CPRD cohort in that year satisfying the following inclusion criteria:

- (i) they were registered before the 30<sup>th</sup> June of that year
- (ii) they did not transfer to another practice or die before the 30<sup>th</sup> June of that year
- (iii) they were in the same practice for at least six months
- (iv) they had not previously tested positive for HIV.

The numerator was the number of HIV tests carried out within the relevant year. For each patient in the denominator, the number of tests was calculated, disregarding repeat tests that were within a 3 month period. Any test done or registered more than 90 days after the first recorded positive test was ignored.

As the majority of HIV tests in women are carried out as part of antenatal screening, analyses for females were repeated excluding these tests. We identified women who were pregnant using either delivery dates or Read codes as follows:

(i) Delivery (birth) dates associated with the females in our data: An HIV test was considered antenatal if it occurred between 3-9 months before the recorded delivery date.

- (ii) Read codes indicating any sign of pregnancy (antenatal): In this case an HIV test was considered antenatal if it occurred within 6 months from the day the Read code was recorded.
- (iii) Read codes associated with the postpartum period: In this case the HIV test was considered antenatal if it occurred within 3-10 months before the corresponding record.
- (iv) Read codes indicating any sign of miscarriage or abortion: An HIV test was recorded as ante-natal if it occurred between 3 months prior to 3 months after the corresponding record.

The Read codes associated with pregnancy are listed in the supplementary material. The antenatal HIV tests were excluded from the numerator and the corresponding patients were removed from the denominator for the relateded period as well.

We plotted the trends in HIV testing rates per 100,000 person years for 2000-2015 separately for men and women (including and excluding ante-natal HIV tests) for all adults and restricted to those aged 16-44 years old. In addition, we calculated the annual proportion of HIV tests that were positive for each year to investigate whether testing improved in terms of targeting higher risk individuals during the later years.

For the years 2005, 2010 and 2015, we estimated and tabulated HIV testing rates and incidence rate ratios (IRR) with 95% confidence intervals from Poisson models for males and females separately according to whether practice was in London or not, by age, ethnicity, IMD, and by type of location. To validate our estimates of HIV testing rates recorded in CPRD, we compared them with those from national surveillance data collected by PHE for 2015<sup>30</sup>. Finally, we estimated the prevalence of diagnosed HIV recorded in CPRD and compared this with estimated prevalence from national surveillance data collected by PHE using SOPHID and HARS to determine the proportion of all HIV diagnoses that were recorded in CPRD. Data analysis was performed using STATA version 14.

## **RESULTS**

Data were available on 5,979,598 distinct patients with 45,093,761 (males 22,155,768; females 22,937,630) person years of observation. The demographic characteristics of included individuals are shown in Table 1. There were less males (48%) than females (52%). Practices (15%) and individuals (16%) in the most deprived quintile of IMD were under-represented in CPRD. The total number of HIV tests recorded in CPRD between 2000 and 2015 was 159,115 of which 357 (0.2%) were positive.

Trends in HIV testing rates 2000-2015 in Primary Care

Figure 1 shows the trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing. The main reason for HIV testing among women of child-bearing age was antenatal screening: the testing rates (per 100,000 person-

years) in all women aged 16-44 increased from 177 (95% CI 167-188) in 2000 to 1789 (1757-1821) in 2010 and then decreased to 839 (817, 862) in 2015, with the corresponding figures being 23 (19-26), 262 (250-275) and 190 (179-201) when antenatal testing was excluded. For males the corresponding rates were 26 (22-29), 196 (185-206) and 137 (127-146) in 2000, 2010 and 2015, respectively. For the whole period, HIV testing rates were higher in females than males (figure 1). This was true even when HIV tests carried out as part of antenatal screening were excluded. HIV testing rates in Primary Care peaked in females in 2010 (figure 1) and have declined markedly since then. In men and women not tested ante-natally, HIV testing rates increased until 2012-2013, but have declined since. Similar patterns were seen when data were restricted to those aged 16-44 years only, except that rates were much higher in younger adults compared with those aged 45 years and over. HIV testing rates with 95% confidence intervals (CI) are listed for all years from 2000-2015 for males, females and females excluding antenatal tests (supplementary table 1 all adults, supplementary table 2 for those aged 16-44 years).

## Trends in positive HIV diagnosis in Primary Care

Although the number of HIV tests was much higher in women, more men tested positive: 196/20,328 (0.96%) men compared with 161/138,787 (0.12%) women. This was skewed by a very low rate of positive diagnoses in younger females who were screened ante-natally. The smoothed trend in the percentage of tests that were positive for men and women of different ages is shown in figure 2 (plot of raw data is shown in supplementary\_figure). Percentage positive (excluding antenatal tests), was similar in men and women before 2005, but declined more sharply in women thereafter. The percentage of tests that were positive peaked around 2003 and have fallen sharply since 2010, indicating that there is no evidence of better targeting of testing to individuals in later years.

## HIV testing rates in practices within and outside London, by age and deprivation index

HIV testing rates were two-fold higher in London compared with outside London for both men and women in 2005 and this differential increased in 2010 and 2015. Table 2 and table 3 give the testing rates for years 2005, 2010 and 2015 for males and females (excluding antenatal tests), respectively, stratified by whether the practices were in London or outside London. Data for all years between 2000 and 2015 are given for all adults (supplementary table 1) and for adults aged 16-44 years (supplementary table 2). In more recent years practices outside London but in conurbations had higher rates than those in cities or towns, which in turn had higher rates than rural practices. Although testing rates in men in London practices decreased between 2010 and 2015 overall from 273 (251-

295) to 246 (225-266) per 100,000 person-years, there was evidence of a shift in targeting of testing since rates increased in older men from 151 (127-176) to 180 (154-206) per 100,000 person-years and in the most deprived quintile from 415 (351-480) to 565 (487-643) per 100,000 person-years. This targeting effect was also seen among women in London practices, but not in practices outside London. However, in 2015 in London it remained the case that older people were less likely to be tested: incidence rate ratio (IRR) for age  $\geq$  45 compared with 16-44 years was 0.59 (0.50-0.71) for men and 0.46 (0.38-0.55) in women. The corresponding IRR for outside London were much lower: IRR for age  $\geq$  45 compared with 16-44 years was 0.37 (0.32-0.43) in men and 0.18 (0.16-0.21) in women. In contrast, by 2015 the most deprived group were 2- or 3-fold more likely to be tested than the least deprived, depending on gender and locality, with IRR for IMD quintile 5 versus 1 increasing markedly from 2005 through to 2015 (table 2 (males) and table 3 (females)).

HIV testing rates and positivity according to national surveillance data

For comparison, national surveillance data for 2015 estimated that General Practices in extremely high prevalence areas defined as greater than 5/1000 population (comparable with "London" in our CPRD study) carried out the highest number of tests per practice population, 860 per 100 000 person years. This was nearly double the coverage rate of General Practices in high diagnosed prevalence areas defined as greater than 2/1000 population (440/100 000), and ten times the coverage rate among General Practices in low diagnosed prevalence areas (90/100 000). The estimates from surveillance were higher than our estimates from CPRD (table 2 and table 3). The proportion of positive tests among those tested in Primary Care estimated from SSBBV surveillance data was 0.4% in 2015<sup>30</sup>. This varied from 0.5% in very high prevalence areas to 0.2% in low prevalence areas and was consistent with our estimated positivity (figure 2).

Prevalence of recorded HIV in CPRD and comparison with national surveillance estimates

In 2015 the prevalence of diagnosed HIV recorded in CPRD was 2.8 per 1000 adult patients in

London practices and 0.8 per 1000 in the rest of the UK (table 4). According to PHE surveillance, in

2015 HIV prevalence in UK was estimated to be 1.6 per 1000, and excluding undiagnosed HIV was

1.3 per 1000 population.<sup>2</sup> The HIV prevalence in London was estimated to be 4.7 per 1000,

substantially higher than the rest of the UK at 1.1 per 1000. The corresponding observed prevalence,
that is, excluding undiagnosed cases of HIV, was 4.2 and 0.9 per 1000 population in London and the
rest of the UK, respectively.<sup>2</sup> Therefore, only two-thirds of PLWHIV in London were likely known to
General Practice whereas in the rest of the UK this increased to nearly 90%. However, these
percentages are likely to be over-estimated as children aged <16 years were not included in the

CPRD calculations of prevalence but were included in PHE data. If we assume that 20% of the UK population are aged <16 years old and that only 1000 children are living with HIV, then the prevalence of diagnosed HIV among adults could be as high as 5.1 and 1.2 per 1000 in London and outside London, respectively. The estimated percentage of HIV diagnoses among adults recorded in CPRD may be as low as 55% and 67% in London and the rest of the UK, respectively. In General Practices in London, prevalence of HIV recorded in CPRD was higher for males, older individuals, Black African ethnicity and most deprived quintile (table 4) with a similar pattern in practices outside London except that prevalence did not vary by age.

#### Discussion

Statement of principal findings

Our analysis of CPRD data on GP consultations recorded on approximately 6 million people living in the UK over a 15-year period, shows that the initial rise in HIV testing seen in Primary Care between 2000 and 2010 reversed with a significant drop in the testing rates for HIV in primary care from 2010. This is an unexpected finding as throughout this period prevalence of HIV has been increasing which should have engendered higher rates of testing in Primary Care, given the NICE recommendation to test all new registrants and those with HIV indicator conditions<sup>31,32</sup>. HIV testing rates in Primary Care were higher in women than men throughout the study period, even when tests for antenatal screening were excluded, despite HIV prevalence being higher in men. This resulted in men being eight-fold more likely to test positive than women in this setting. Over the 15-year period of the study, there were approximately 2 positive results per 1000 HIV tests. We did not find evidence of better targeting of HIV testing to individuals in more recent years as the percentage of tests that were positive peaked around 2003. Many individuals at high risk of HIV infection may choose to test in settings other than General Practice, such as sexual health clinics, which might make it harder to target HIV testing among the population attending Primary Care.

The pattern of HIV testing has also changed over time. Testing was two-fold higher in London then elsewhere and has increased in the groups and areas of high deprivation within London. This is reassuring as it also reflects the higher prevalence of HIV in these areas and indicates that HIV testing has become more geographically targeted. Overall, testing rates were higher in urban conurbations and cities than in rural areas reflecting the national prevalence figures<sup>2</sup>. Younger people were more likely to be tested than those aged 45 years and over, which reflects the incidence pattern for HIV. However, our data shows an increasing trend in the rate of testing among the older

age group in London, but not elsewhere, which may have been driven by the recognition that among those with HIV infection the proportion diagnosed late is higher in older age groups<sup>33</sup>.

In 2015, the prevalence of HIV recorded in CPRD was over three-fold higher in London than elsewhere, but overall was substantially lower than the prevalence of diagnosed HIV estimated from PHE surveillance<sup>2</sup>. This may be due to HIV-positive individuals not using primary care or to non-disclosure of their HIV status to their GP, not recording of the diagnosis on GP systems, or to CPRD not including sufficient practices with high HIV prevalence. CPRD is broadly representative of Primary Care in the UK, but the UK HIV epidemic is concentrated in cities with approximately half of HIV-positive individuals living in London<sup>2</sup>. The estimated percentage of HIV diagnoses among adults that were recorded in CPRD increased between 2005 and 2015 but was still substantially lower in London than elsewhere. This trend may reflect the ageing HIV population's greater requirement of primary care services, decrease in stigma of disclosure, or better transfer and recording in Primary Care of positive results of HIV tests carried out in other settings in later years.

## Strengths and weaknesses of the study

This study is very large with data from nearly six million patients followed over fifteen years with detailed primary care records. This detailed coverage enabled us to accurately measure HIV testing rates according to the important factors of deprivation, urbanisation, gender, ethnicity and age. Records were collected prospectively and electronically over a significant time period; therefore, we were able to show clearly the trends that have occurred. Our analysis and the data collection may be biased by several factors. The CPRD only includes a sample of general practices, but this is broadly representative of Primary Care in the UK, and, given the large numbers, this is a sufficient sample size for estimates of testing rates to be accurate. We have shown the CPRD slightly under represents deprivation, in both individuals and GP practices. Whilst this may be the case, given the very large sample size, we think that we can still draw valuable conclusions from this data. This study can only show the rates of testing in Primary Care. What is clear, given the number of HIV positive patients, is that many patients will have been diagnosed in other healthcare settings, for example, PHE estimated that in England during 2016 5.9% and 7.3% of new diagnoses in men and women, respectively, were made in Primary Care<sup>34</sup>. This implies that estimates of the prevalence of diagnosed HIV based on diagnoses recorded in CPRD will be under-estimates for the UK which we have shown by comparing with surveillance data from PHE.

Strengths and weaknesses in relation to other studies, discussing important differences in results

HIV testing in Primary Care in the Netherlands also decreased between 2010-2015 despite similar guidelines encouraging more pro-active screening for HIV<sup>35</sup>. Although HIV testing in Primary Care has declined, the rates of late diagnosis (CD4 count less than 350 cells/mL) have also declined from 50% in 2010 to 39% in 2015<sup>36</sup>, indicating a discordancy between the testing in Primary Care and diagnosis. This indicates that increased testing has likely occurred in other settings. Earlier diagnosis may be due to better detection in secondary care, either from screening or testing those with indicator conditions, or through other routes such as sexual health clinics, insurance requests or specialist testing services. Moreover, if testing has become better targeted in Primary Care and incidence in the consulting population is decreasing then even without an increase in testing, those who get tested may be tested earlier in the course of HIV infection leading to reduced rates of late diagnoses. However, we have shown a significant decline in HIV testing in Primary Care since the previous analysis by Evans *et al* <sup>25</sup> on testing up to 2005, and therefore we can look at increased testing in primary care as an option to improve early HIV detection rates.

Meaning of the study: possible explanations and implications for clinicians and policymakers

Since 2015, UK and international treatment guidelines<sup>37</sup> for those diagnosed with HIV recommend immediate treatment with antiretroviral therapy (ART) because of both the START trial 38 showing that delaying therapy was detrimental to individual health and the beneficial effects of treament as prevention (TasP). Therefore, in recent years the majority of new infections will have been transmitted by those who were undiagnosed<sup>39</sup> because most patients who are diagnosed are treated with effective ART and unlikely to transmit HIV. 9,40,41 This change, together with pre-exposure prophylaxis (PrEP), has resulted in a decline in HIV infection rates for the last 2 years<sup>34</sup>. Nevertheless, there are still opportunities for diagnosing HIV earlier in Primary Care whilst testing rates remain very low. Current UK testing guidelines<sup>34</sup> recommend people attending General Practices in areas of high HIV prevalence should be offered an HIV test at registration or when having a blood test if they have not had an HIV test in the past 12 months. People newly diagnosed with an HIV indicator condition should also be offered an HIV test. The aim is to diagnose HIV earlier as late diagnosis of HIV is associated with increased morbidity and mortality. 7,42,43 There are benefits for diagnosing HIV earlier both for the individual in terms of quality of life and life expectancy<sup>6</sup> and a wider societal benefit of reduced transmission and lower NHS treatment costs. Each prevented infection saves an estimated £300,000 in lifetime treatment costs. 43,44 According to PHE surveillance, in 2016, HIV test positivity rates in Primary Care in high (0.5%) and extremely high (0.4%) diagnosed HIV prevalence areas exceeded those seen in sexual health services, indicating that more testing should be carried out in primary care<sup>34</sup>.

# Unanswered questions and future research

Although it is a public health imperative, and target, to increase HIV testing and diagnosis, it is unclear how this could be implemented in Primary Care. A literature review undertaken of public and Health Care Professional (HCP) attitudes towards HIV testing in the UK showed that a proactive offer of an HIV test by the HCP was an important factor which could help increase testing rates.<sup>21</sup> Reasons for low levels of HIV testing by the HCP include fear/concern of offending patients, inadequate knowledge/training on HIV, low awareness of current testing guidelines, underestimation of patient risk, insufficient time, competing priorities, perceived burdensome consent process and pre-test discussion. 19-21,45 Studies indicate a need for education and training on HIV testing for HCP in Primary Care to overcome these barriers to testing. 16,46 Adequate interventions are needed to address these barriers so individuals can receive a timely HIV test and with it the important treatment benefits and care if found to be HIV positive. HCPs in the UK have opportunities to initiate HIV testing in at-risk individuals and reduce the proportion of undiagnosed infection. 12,14 Another literature review has provided evidence that HIV indicator conditions have the potential to be used more effectively as triggers for earlier HIV testing<sup>47</sup>. Opt-out testing can facilitate increased HIV testing as has been evident from a trial in emergency care setting<sup>48</sup>. When blood tests are carried out for any reason in primary care, there could also be an opt-out HIV test. Computer prompts based on risk algorithms are another strategy to support HIV testing<sup>49-53</sup> which could be based on electronic health records such as those in CPRD.

Although the results shown here are for a UK based population the methodology may be applicable to other healthcare systems. They provide accurate testing rates and detection rates in Primary Care which are measures of HIV testing that can be used for international comparisons. A key element for preventing transmission and late diagnosis of HIV is testing in Primary Care, based on a screening strategy or indicator conditions<sup>54</sup>. These data inform us of the current situation on testing and will be useful in planning and evaluating interventions to improve this.

The data on the discrepancy between PHE and CPRD prevalence of HIV positive status being recorded is another finding of importance for planning. New testing strategies such as home test and rapid testing outside of standard health care settings may contribute to the decrease in testing in Primary Care. These need to have a strategy in their delivery to feed back to Primary Care to maximise the benefits to patients and their health networks.

#### **Conclusions**

HIV testing rates have declined in Primary Care in all age groups, although there has been a fall in late presentation. HIV testing rates are highest in London, and higher in urban areas than rural areas. Adherence to HIV testing guidelines<sup>15,31,32</sup> would likely increase the number of positive tests and help prevent late diagnosis. Further interventions to increase selectivity of testing (positive cases per test) may be required, either at the individual level using risk factors and HIV indicator conditions or at the practice level using knowledge of local HIV prevalence.

## **Contributor and guarantor information**

MG and MM planned the research study and were responsible for study design. JM and TJ advised on study design. CD applied for ethics approval and did the literature search. TJ and CD obtained data from CPRD and helped with coding and extracting data. SM was responsible for statistical analyses, tables and graphs. MM, SM and MG wrote the first draft of the paper. All authors contributed to writing and revising the paper and agreed to submission. MM acts as guarantor for the conduct of the study, had full access to the data and made decision to publish.

## **Ethics approval**

The protocol was submitted to and approved by the independent scientific advisory committee for the CPRD (protocol ISAC number 16\_172A). The study was approved by the South West, Frenchay, Research Ethics Committee on the 19/09/2016 (REC reference 16/SW/0286).

## **Transparency statement**

Margaret May affirms that the manuscript is an honest, accurate and transparent account of the study, and that no important aspects of the study have been omitted. The sponsor had no role in research or decision to publish.

## **Competing Interests statement**

No authors have any competing interests.

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## **Data sharing**

No additional data is available as use of the data was licensed by CPRD and therefore cannot be shared further.

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Table 1: Patient and practice demographics

Demographic Variable	Group	Frequency	Percentage (%)
Gender	Males	2,871,884	48.03
	Females	3,107,562	51.97
	Other/Unknown	152	0.00
Age (in 2015)	16-44	2,684,443	44.89
	>44	3,295,155	55.11
Ethnicity	Asian	147,295	2.46
	Black African	45,632	0.76
	Black Caribbean	28,558	0.48
	Other	118,934	1.99
	White	3,328,189	55.66
	Unknown	2,310,990	38.65
Region	Outside London	4,693,116	78.49
	London	1,129,924	18.90
	Unknown	156,558	2.62
Urban/Rural	Urban(Conurbation)	2,134,497	35.70
	Urban(City/Town)	2,991,079	50.02
	Rural	697,452	11.66
	Unknown	156,558	2.62
Patient IMD (2015) 1=least deprived,,	Quintile 1	1,285,213	21.49
5=most deprived,,	Quintiles 2,3,4	3,564,936	59.62
	Quintile 5	964,853	16.14
	Unknown	164,596	2.75
Practice IMD (2015)	Quintile 1	1,249,293	20.89
1=least deprived,, 5=most deprived	Quintiles 2,3,4	3,702,313	61.92
'	Quintile 5	871,434	14.57
	Unknown	156,558	2.62

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Table 2: Testing rates (per 100,000 person years) for **males** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015.

				London			<u> </u>		
<u> </u>		2005			2010		24	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Raŧe (95% CI)	IRR (95% CI)	p-valu
Overall	133 (117, 148)	-	-	273 (251, 295)	-	-	24&(225, 266)	-	-
Age							em		
16-44	175 (151, 198)	1	-0.0004	366 (333, 400)	1	-0.0004	30 <b>8</b> (272, 336)	1	-0.000
>=45	75 (56, 93)	0.43 (0.33, 0.56)	<0.0001	151 (127, 176)	0.41 (0.34, 0.50)	<0.0001	180 (154, 206)	0.59 (0.50, 0.71)	<0.000
Ethnicity							019		
White	102 (80, 125)	1		240 (206, 275)	1		222 (187, 256)	1	
Asian	152 (73, 232)	1.49 (0.85, 2.62)	.0.0004	329 (220, 438)	1.37 (0.95, 1.96)	0.0004	16 (88, 247)	0.76 (0.47, 1.22)	
Black African	669 (361, 977)	6.53 (3.93, 10.85)	<0.0001	1227 (849, 1605)	5.10 (3.63, 7.18)	<0.0001	919 602, 1236)	4.15 (2.84, 6.06)	<0.000
Black Caribbean	216 (432, 389)	2.11 (0.92, 4.82)		361 (148, 574)	1.50 (0.82, 2.76)		528(267, 779)	2.36 (1.42, 3.95)	
Patient IMD (2015)*							ed		
Quintile 1	160 (119, 202)	1		207 (159, 254)	1			1	
Quintiles 2,3,4	120 (102, 139)	0.75 (0.56, 1.01)	0.0912	252 (226, 279)	1.22 (0.95, 1.57)	< 0.0001	17∄(155, 198)	0.88 (0.68, 1.14)	<0.000
Quintile 5	155 (114, 195)	0.96 (0.67, 1.40)		415 (351, 480)	2.01 (1.53, 2.65)		565 (487, 643)	2.82 (2.16, 3.68)	
		, ,		Outside Lond			<del>                                     </del>	, , ,	
		2005			2010		Dn On	2015	
	Rate (95% CI)	IRR (95% C.I.)	p-value	Rate (95% CI)	IRR (95% C.I.)	p-value	Race (95% CI)	IRR (95% C.I.)	p-valu
Overall	65 (60, 70)	-	-	106 (100, 112)		-	64 (60, 69)	-	-
Age							n.br		
16-44	95 (87, 103)	1	-0.0004	161 (150, 172)	1	-0.0004	100 (91, 109)	1	-0.000
>=45	34 (29, 39)	0.36 (0.30, 0.42)	<0.0001	54 (48, 60)	0.34 (0.30, 0.38)	<0.0001	3 (32, 42)	0.37 (0.32, 0.43)	<0.000
Ethnicity							0		
White	63 (57, 69)	1		100 (92, 108)	1		63 (57, 70)	1	
Asian	159 (89, 229)	2.52 (1.61, 3.94)	.0.0004	336 (245, 427)	3.36 (2.55, 4.44)		200 (135, 266)	3.16 (2.25, 4.45)	
Black African	579 (221, 937)	9.17 (4.90, 17.16)	<0.0001	1321 (859, 1783)	13.24 (9.23, 18.97)		584 (289, 878)	9.22 (5.51, 15.44)	
Black Caribbean	185 (37, 366)	2.93 (1.09, 7.83)		506 (156, 856)	5.06 (2.86, 8.96)		202 (25, 379)	3.19 (1.32, 7.70)	
Patient IMD (2015)*	, , ,	, , ,		, , ,	. , ,		20.	, , ,	
Quintile 1	60 (51, 69)	1		98 (87, 110)	1		6 <del>1</del> (52, 70)	1	
Quintiles 2,3,4	60 (54, 66)	1.0 (0.84, 1.20)	0.0002	94 (87, 101)	0.96 (0.83, 1.10)	< 0.0001	5 <del>§</del> (48, 59)	0.87 (0.73, 1.04)	<0.000
Quintile 5	89 (75, 104)	1.49 (1.20, 1.86)		163 (145, 182)	1.66 (1.41, 1.96)		16 (99, 131)	1.89 (1.55, 2.31)	
Urban/Rural class		- ( -,,		( -,)	, , , ,		<u>8</u>	(,,	
Conurbation	65 (55, 76)	1		144 (129, 159)	1		9 <del>1d</del> (79, 102)	1	
		1.05 (0.88, 1.26)	0.0045	100 (93, 107)	0.70 (0.61, 0.79)	< 0.0001	69 (54, 65)	0.66 (0.56, 0.77)	<0.000
City/Town	69 (63, 75)	T'02 (0'00' T'50)	0.0045	100 (33, 107)					

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Table 3: Testing rates (per 100000 person years) for **females** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015 (antenatal testing oxelydad) excluded)

				Lond	on		on 2.		
		2005			2010		Z	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Rate ₹95% CI)	IRR (95% CI)	p-value
Overall	139 (123, 155)	-	-	309 (285, 332)	-	-	243 (223, 264)	-	-
Age							ber		
16-44	216 (189, 242)	1	.0.0004	479 (440, 517)	1	0.0004	327 ( <b>29</b> 5, 360)	1	0.0004
>=45	39 (26, 52)	0.18 (0.13, 0.26)	<0.0001	93 (74, 112)	0.19 (0.16, 0.24)	<0.0001	150 ( <b>12</b> 7, 173)	0.46 (0.38, 0.55)	<0.0001
Ethnicity							D		
White	120 (100, 140)	1		270 (239, 301)	1		170 ( <b>ફ</b> 44, 195)	1	
Asian	199 (117, 280)	1.65 (1.09,2.51)	-0.0004	261 (183, 339)	0.97 (0.70, 1.33)	-0.0004	190 (\$\frac{1}{2}6, 254)	1.12 (0.78, 1.62)	-0.0004
Black African	415 (234, 596)	3.46 (2.21 5.43)	<0.0001	825 (602, 1048)	3.06 (2.29, 4.08)	<0.0001	728 (\$\frac{\oldsymbol{\infty}}{22}7, 929)	4.30 (3.13, 5.87)	<0.0001
Black Caribbean	248 (96, 400)	2.06 (1.15, 3.72)		438 (260, 617)	1.63 (1.06, 2.48)		399 (221, 578)	2.35 (1.50, 3.70)	
Patient IMD (2015)*							fro		
Quintile 1	153 (112, 194)	1		172 (130, 215)	1		156 (₹15, 197)	1	
Quintiles 2,3,4	125 (106, 143)	0.82 (0.60, 1.10)	0.0278	284 (258, 311)	1.65 (1.27, 2.14)	< 0.0001	195 (‡73, 218)	1.25 (0.95, 1.66)	< 0.0001
Quintile 5	183 (138, 227)	1.19 (0.84, 1.71)		539 (463, 615)	3.13 (2.37, 4.14)		520 (448, 592)	3.33 (2.50, 4.46)	
				Outside I	ondon		n N		
		2005			2010		9	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Rate 👭 5% CI)	IRR (95% CI)	p-value
Overall	67 (62, 71)	-	-	117 (111, 123)	1/0.	-	83 (38, 89)	-	-
\ge							ıj.c		
L6-44	118 (108, 127)	1	<0.0001	216 (204, 229)	1	<0.0001	160 ( <mark>全</mark> 48, 171)	1	<0.0001
=45	21 (17,24)	0.18 (0.15, 0.21)	<0.0001	34 (29, 38)	0.16 (0.14, 0.18)	<0.0001	29 (25, 33)	0.18 (0.16, 0.21)	<0.0001
thnicity							n A		
White	67 (61, 72)	1		117 (110, 125)	1		77 🔄 1, 83)	1	
sian	188 (123, 252)	2.82 (2.01, 3.95)	<0.0001	357 (284 <i>,</i> 430)	3.04 (2.46, 3.77)	<0.0001	207 (155, 259)	2.69 (2.07, 3.50)	<0.0001
Black African	515 (270, )	7.33 (4.77, 12.53)	<0.0001	829 (563, 1094)	7.07 (5.13,9.73)	<0.0001	432 (249, 616)	5.63 (3.71, 8.53)	<0.0001
Black Caribbean	235 (61, 409)	3.53 (1.68, 7.44)		778 (468, 1087)	6.63 (4.49, 9.79)	4	489 (🏞 7, 721)	6.36 (3.93, 10.30)	
atient IMD (2015)*							4		
Quintile 1	64 (54, 73)	1		95 (84 <i>,</i> 106)	1		71 (§1, 81)	1	
Quintiles 2,3,4	61 (55, 67)	0.97 (0.81, 1.15)	0.0001	95 (88, 102)	1.00 (0.87, 1.15)	< 0.0001	72 <b>(5</b> 5, 78)	1.01 (0.86, 1.19)	< 0.0001
Quintile 5	92 (77, 107)	1.45 (1.17, 1.79)		241 (218, 265)	2.54 (2.19, 2.95)		152 ( <b>‡</b> 34, 170)	2.15 (1.80, 2.57)	
Jrban/Rural class							P		
Conurbation	54 (45 <i>,</i> 64)	1		165 (148, 181)	1		120 ( <del>\$</del> 6, 133)	1	
City/Town	72 (66, 78)	1.33 (1.10, 1.60)	0.0078	108 (101, 116)	0.66 (0.59, 0.74)	< 0.0001	77 ( <del>Å</del> 0, 83)	0.64 (0.56, 0.74)	< 0.0001

<sup>\*1=</sup>least deprived - 5=most deprived

Table 4: Prevalence (with 95% CI) of diagnosed HIV recorded in CPRD (per 100,000 persons) by gender, age, ethnicity and patient IMD, for London and outside London.

	Lor	ndon				
	Prevalence (95% CI)					
	2005	2010	2015			
All	140 (129, 151)	230 (216, 244)	282 (267, 297)			
Gender						
Males	191 (172, 209)	294 (271, 317)	369 (344, 395)			
Females	91 (78, 103)	170 (153, 187)	199 (181, 217			
Age						
16-44	168 (152, 184)	234 (215, 253)	229 (210, 249)			
>44	103 (88, 117)	226 (205, 247)	341 (316, 365)			
Ethnicity						
White	127 (112, 143)	183 (164, 202)	224 (202, 246)			
Asian	45 (17, 72)	84 (50, 119)	96 (60, 131)			
Black African	1465 (1205, 1726)	2350 (2055, 2646)	2597 (2294, 2899)			
Black Caribbean	195 (97, 294)	431 (291, 572)	538 (381, 695)			
Patient IMD (2015)						
Quantile 1	32 (19, 45)	86 (65, 107)	121 (96, 146)			
Quantiles 2,3,4	136 (122, 149)	212 (195, 228)	256 (238, 274)			
Quantile 5	268 (230, 306)	444 (397, 491)	544 (492, 596)			
	Outside	London				
		Prevalence (95% CI)				
	2005	2010	2015			
All	38 (36, 41)	64 (61, 67)	81 (77, 85)			
Gender						
Males	50 (46, 54)	81 (76, 86)	105 (99, 110)			
Females	26 (23, 29)	48 (44, 52)	58 (54, 62)			
Age						
16-44	55 (51, 59)	78 (72, 83)	82 (76, 87)			
>44	22 (19, 25)	52 (48, 56)	80 (76, 85)			
Ethnicity						
White	29 (26, 32)	46 (43, 50)	60 (56, 64)			
Asian	37 (16, 59)	40 (21, 59)	55 (34, 76)			
Black African	2537 (2110, 2964)	3663 (3236, 4091)	3933 (3514, 4353)			
Black Caribbean	135 (35, 236)	347 (195, 499)	484 (308, 660)			
Patient IMD (2015)						
Quantile 1	19 (16, 23)	31 (26, 35)	42.58 (37, 48)			
Quantiles 2,3,4	35 (32, 38)	60 (56, 65)	77 (72, 81)			
Quantile 5	82 (72, 91)	132 (121, 144)	159 (146, 172)			

Figure legends:

Figure 1: Trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

Figure 2: Trend in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.



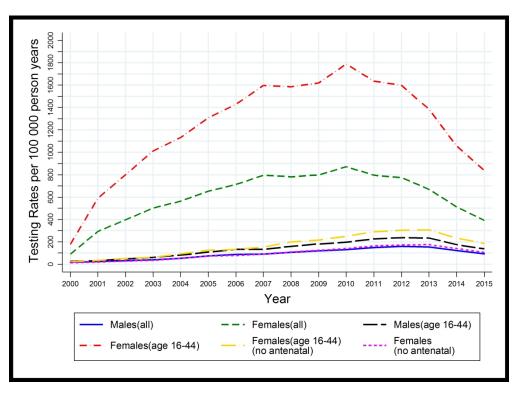


Figure 1 : Trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing

887x649mm (96 x 96 DPI)

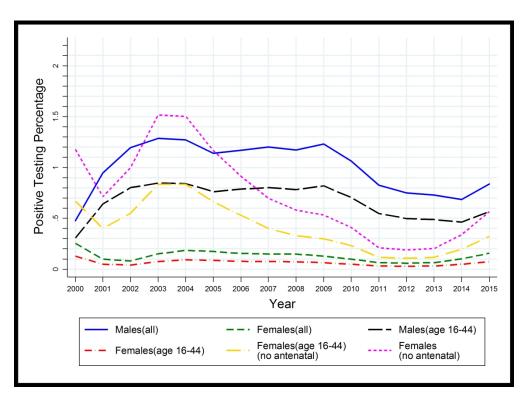
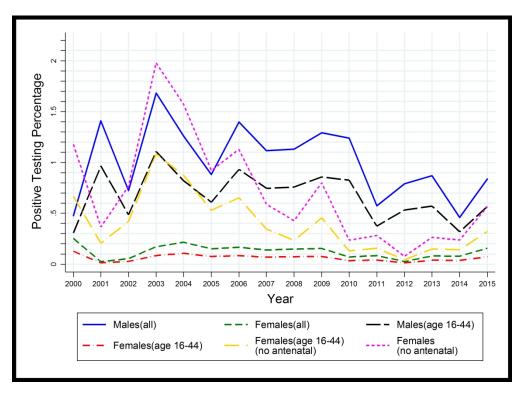


Figure 2: Trend in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)



Supplementary figure: Trend (unsmoothed graph) in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)

## Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

## **Supplementary tables**

Supplementary table 1: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults >16 years).

Males, all			_		Female	s, all	Females, excluding antenatal			
Year	N	Rate	95% C.I.		N	Rate	95% C.I.	N	Rate	95% C.I.
2000	1277056	16.4	(14.2 , 18.7)		1332528	89.0	(83.9 , 94.1)	1331517	12.8	(10.8 , 14.7)
2001	1299140	21.9	(19.3 , 24.4)		1352604	293.1	(283.9 , 302.3)	1348950	20.2	(17.8 , 22.7)
2002	1317701	31.4	(28.3 , 34.5)		1367949	396.3	(385.7 , 406.9)	1363158	28.7	(25.8 , 31.6)
2003	1341378	39.9	(36.5 , 43.3)		1388107	501.9	(490.0, 513.7)	1382140	36.5	(33.3 , 39.8)
2004	1359662	52.5	(48.6 , 56.4)		1403681	563.0	(550.5 , 575.5)	1397351	54.7	(50.7 , 58.7)
2005	1374451	74.2	(69.6 <i>,</i> 78.8)		1418325	653.1	(639.7 , 666.6)	1411272	77.0	(72.3 , 81.6)
2006	1390451	87.5	(82.5 , 92.4)		1433622	711.6	(697.7 , 725.6)	1426111	80.9	(76.0 , 85.7)
2007	1405428	89.4	(84.3 , 94.4)		1447828	795.2	(780.5 , 809.9)	1439651	94.3	(89.1 , 99.4)
2008	1409645	106.6	(101.1 , 112.1)		1455081	781.9	(767.4 , 796.5)	1447676	113.1	(107.4 , 118.7)
2009	1418613	120.0	(114.3 , 125.8)		1463654	797.9	(783.2 , 812.6)	1456530	128.6	(122.6 , 134.6)
2010	1424751	130.2	(124.2 , 136.2)		1470650	870.7	(855.4, 886.0)	1463009	145.3	(139.0 , 151.6)
2011	1421140	147.2	(140.8 , 153.6)		1474837	795.9	(781.2 , 810.5)	1468256	169.0	(162.1 , 175.8)
2012	1427981	159.5	(152.9 , 166.2)		1482930	772.8	(758.4 , 787.1)	1476875	176.7	(169.7 , 183.6)
2013	1430211	152.9	(146.4 , 159.4)		1486620	669.5	(656.2 , 682.9)	1481702	178.9	(171.9 , 185.9)
2014	1436279	121.6	(115.8 , 127.4)		1487194	511.7	(500.1,523.4)	1483581	141.8	(135.6 , 148.1)
2015	1421880	92.5	(87.4 , 97.6)		1472023	391.5	(381.2 , 401.7)	1469400	108.4	(103.0 , 113.9)

Supplementary table 2: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults aged 16-44 years).

	Males, all				Fema	les, all	Female	s, exclu	ding antenatal
Year	N	Rate	95% C.I.	N	Rate	95% C.I.	N	Rate	95% C.I.
2000	671088	25.5	(21.6 , 29.4)	655488	177.4	(167.2 , 187.7)	654477	22.5	(18.8 , 26.1)
2001	681216	31.9	(27.6, 36.2)	665358	589.8	(571.2 , 608.3)	661708	35.8	(31.2 , 40.4)
2002	688746	46.8	(41.5,52.0)	672213	799.5	(778.0,821.0)	667427	52.3	(46.7 , 57.8)
2003	698982	60.5	(54.7,66.4)	681748	1012.9	(989.0 , 1036.9)	675788	66.7	(60.5 , 73.0)
2004	706120	80.9	(74.1 , 87.6)	688504	1132.5	(1107.2 , 1157.8)	682186	98.4	(90.7 , 106.1)
2005	710489	107.4	(99.7 , 115.1)	694232	1308.9	(1281.8 , 1335.9)	687190	134.0	(125.2 , 142.8)
2006	714842	131.1	(122.6 , 139.6)	700086	1428.5	(1400.4 , 1456.7)	692589	139.8	(130.7 , 148.8)
2007	717434	133.5	(124.9 , 142.2)	704167	1598.2	(1568.4 , 1627.9)	696009	160.6	(151.0 , 170.3)
2008	711542	159.1	(149.7 , 168.5)	702985	1586.6	(1556.9 , 1616.3)	695600	206.5	(195.4 , 217.5)
2009	708782	181.0	(170.9 , 191.1)	700970	1618.4	(1588.3 , 1648.5)	693867	225.9	(214.3 , 237.4)
2010	702732	195.7	(185.2 , 206.2)	696368	1789.0	(1757.3 , 1820.6)	688743	262.4	(250.0 , 274.7)
2011	690732	225.9	(214.5 , 237.2)	689820	1636.2	(1605.6 , 1666.7)	683258	301.1	(287.7 , 314.5)
2012	685037	236.9	(225.3 , 248.6)	685234	1598.0	(1567.8 , 1628.2)	679201	313.2	(299.6 , 326.8)
2013	675812	232.6	(221.0 , 244.2)	677984	1385.4	(1357.0 , 1413.7)	673088	315.1	(301.4 , 328.9)
2014	668263	174.8	(164.6 , 185.0)	667048	1056.2	(1031.2 , 1081.2)	663464	238.6	(226.5 , 250.8)
2015	639033	136.6	(127.4 , 145.9)	638248	839.3	(816.5 , 862.1)	635636	190.1	(179.0 , 201.1)

Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 

**Supplementary Material** 

Page 2 Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans et al 2009<sup>26</sup>)

es denotives recording de la companya de la company Page 3 Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans et al 2009<sup>26</sup>).

Page 4 Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson et al 50)

Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans *et al* 2009<sup>26</sup>)

	READ/		Certainty of
Code	OXMIS	Code description	HIV+ test
6827.11	READ	HIV screening	Definite
43C00	READ	HTLV-3 antibody test	Definite
43C11	READ	Aids antibody test	Definite
43C12	READ	Human immunodefic.viral test	Definite
43C1.00	READ	Blood sent for HTLV-3 serology	Definite
43C2.00	READ	HTLV-3 antibody negative	Definite
43C2.11	READ	HIV negative	Definite
43CZ.00	READ	HTLV-3 antibody NOS	Definite
43d5.00	READ	HIV antibody/antigen (Duo)	Definite
43d6.00	READ	HTLV 1 antibody level	Ambiguous
43dc.00	READ	HTLV 2 antibody level	Ambiguous
43h2.00	READ	HIV 1 PCR	Definite
43j7.00	READ	HIV 1 nucleic acid detection	Definite
43V1.00	READ	Absolute CD4 count	Definite
43VE.00	READ	CD4/CD8 ratio	Definite
43VH.00	READ	Percentage CD4 count	Definite
43Vo.00	READ	Absolute CD4 (T4 cells) count	Definite
43Vp.00	READ	Percentage CD4 (T4 cells) count	Definite
43W7.00	READ	HIV1 antibody level	Definite
43W8.00	READ	HIV2 antibody level	Definite
43WK.00	READ	Human immunodeficiency virus antibody level	Definite
4J34.00	READ	HIV viral load	Definite
4J35.00	READ	HIV p24 antigen level	Definite
4JDT.00	READ	HIV serology	Definite
4JR7.00	READ	HIV screening test	Definite
62b00	READ	Antenatal HIV screening	Definite
6827.00	READ	AIDS (HTLV-III) screening	Definite
		[D]Laboratory evidence of human immunodefiency virus	
R109.00	READ	[HIV]	Definite
ZV01800	READ	[V]Human immunodeficiency virus - negative	Definite
		[V]Special screening exam for human immunodefiency	
ZV73700	READ	virus	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
L 153	OXMIS	HTVL-AIDS-III ANTIBODY TEST	Definite
L1111NE	OXMIS	HIV ANTIBODY TEST NEGATIVE	Definite
L 153N	OXMIS	HTVL-AIDS-III ANTIBODY TEST NEGATIVE	Definite
65VE.00	READ	Notification of AIDS	Ambiguous
43j8.00	READ	HTLV 1 nucleic acid detection	Ambiguous

Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans *et al* 2009<sup>26</sup>).

Code	Read/ OXMIS	Code description	Certainty of HIV+ status
65QA.00	READ	AIDS carrier	Definite
A789700	READ	HIV disease resulting other ypes of non-Hodgkin's lymphoma	Definite
A789800	READ	HIV disease resulting in multiple malignant neoplasms	Definite
A788.00	READ	Acquired immune deficiency syndrome	Definite
A788500	READ	Human immunodeficiency virus with secondary infection	Definite
A788X00	READ	HIV disease resulting/unspcf infectious+parasitic disease	Definite
A789200	READ	HIV disease resulting in candidiasis	Definite
A789500	READ	HIV disease resulting in Kaposi's sarcoma	Definite
AyuC100	READ	[X]HIV disease resulting in other viral infections	Definite
AyuC700	READ	[X]HIV dis reslt/oth mal neopl/lymph,h'matopoetc+reltd tissu	Definite
A788000	READ	Acute human immunodeficiency virus infection	Definite
A788100	READ	Asymptomatic human immunodeficiency virus infection	Definite
A789300	READ	HIV disease resulting in Pneumocystis carinii pneumonia	Definite
A789600	READ	HIV disease resulting in Burkitt's lymphoma	Definite
A798.00	READ	Retrovirus infection	Definite
AyuC200	READ	[X]HIV disease resulting in other mycoses	Definite
AyuCA00	READ	[X]HIV disease resulting in multiple diseases CE	Definite
		HIV disease result/haematological+immunologic	
A788U00	READ	abnorms,NEC	Definite
A789.00	READ	Human immunodef virus resulting in other disease	Definite
AyuC000	READ	[X]HIV disease resulting in other bacterial infections	Definite
AyuC800	READ	[X]HIV disease resulting in other malignant neoplasms	Definite
43C3.11	READ	HIV positive	Definite
A788y00	READ	Human immunodeficiency virus with other clinical findings	Definite
Eu02400	READ	[X]Dementia in human immunodef virus [HIV] disease	Definite
		[V]Asymptomatic human immunodeficency virus infection	2 0
ZV01A00	READ	status	Definite
A789400	READ	HIV disease resulting in multiple infections	Definite
AyuC500	READ	[X]HIV disease resulting/unspcf infectious+parasitic disease	Definite
AyuC900	READ	[X]HIV disease resulting in unspecified malignant neoplasm	Definite
AyuCC00	READ	[X]HIV disease resulting in other specified conditions	Definite
43C3.00	READ	HTLV-3 antibody positive	Definite
A788W00	READ	HIV disease resulting in unspecified malignant neoplasm	Definite
A789X00	READ	HIV dis resit/oth mal neopl/lymph,h'matopoetc+	Definite
AyuC300	READ	[X]HIV disease resulting in multiple infections	Definite
AyuC400	READ	[X]HIV disease resulting/other infectious+parasitic diseases	Definite
AyuC600	READ	[X]HIV disease resulting in other non-Hodgkin's lymphoma	Definite
A788600	READ	Human immunodeficiency virus with secondary cancers	Definite
7170000	T(E/T)	Acquired human immunodeficiency virus infection syndrome	Demine
A788z00	READ	NOS	Definite
A788200 A789A00	READ	HIV disease resulting in wasting syndrome	Definite
65VE.00	READ	Notification of AIDS	Definite
A788.11	READ	Human immunodeficiency virus infection	Definite
A788200	READ	HIV infection with persistent generalised lymphadenopathy	Definite
A788300	READ	Human immunodeficiency virus with constitutional disease	Definite
A788400	READ	Human immunodeficiency virus with neurological disease	Definite
~/ 00 <del>4</del> 00	NEAD	maman inimunouenciency virus with heurological disease	שווווונפ

## Appendix 2 (CONT'D): Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care.

	Read/		Certainty of
Code	OXMIS	Code description	HIV+ status
A788V00	READ	HIV disease resulting in multiple diseases CE	Definite
A789100	READ	HIV disease resulting in cytomegaloviral disease	Definite
AyuC.00	READ	[X]Human immunodeficiency virus disease	Definite
AyuCD00	READ	[X]Unspecified human immunodeficiency virus [HIV] disease	Definite
A789000	READ	HIV disease resulting in mycobacterial infection	Definite
A789900	READ	HIV disease resulting in lymphoid interstitial pneumonitis	Definite
AyuCB00	READ	[X]HIV disease result/haematological+immunologic abnorms,NEC	Definite
R109.00	READ	[D]Laboratory evidence of human immunodefiency virus [HIV]	Definite
ZV01A00	READ	[V]Asymptomatic human immunodeficency virus infection status	Definite
799MD	OXMIS	AIDS	Definite
799CA	OXMIS	AIDS CARRIER	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L7990A	OXMIS	ACQUIRED IMMUNE DEFICIENCY SYNDROME	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
43V1.00	READ	Absolute CD4 count	Ambiguous
AyuD800	READ	[X]Retrovirus infections, not elsewhere classified	Ambiguous
AyuKM00	READ	[X]Retrovirus/cause of diseases classified to other chapters	Ambiguous
43VE.00	READ	CD4/CD8 ratio	Ambiguous
A7y0100	READ	Retrovirus as cause of diseases classified to other chapters	Ambiguous
43VH.00	READ	Percentage CD4 count	Ambiguous
4J34.00	READ	HIV viral load	Ambiguous
4J35.00	READ	HIV p24 antigen level	Ambiguous
43h2.00	READ	HIV 1 PCR	Ambiguous
43j7.00	READ	HIV 1 nucleic acid detection	Ambiguous
43Vo.00	READ	Absolute CD4 (T4 cells) count	Ambiguous
43Vp.00	READ	Percentage CD4 (T4 cells) count	Ambiguous

## Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson *et al* <sup>50</sup>)

medcode	readcode	readterm
52685	ZV23000	[V]Pregnancy with history of infertility
3030	4654	Urine pregnancy test positive
73535	L13z100	Unspecified pregnancy vomiting - delivered
53514	Z22D300	Uncertain viability of pregnancy
11422	Z226.00	Pregnancy problem
20623	ZV4J000	[V]Problems related to unwanted pregnancy
99247	L13y200	Other pregnancy vomiting - not delivered
56451	L13zz00	Unspecified pregnancy vomiting NOS
14644	L166z11	UTI - urinary tract infection in pregnancy
32975	6166	Pregnant, diaphragm failure

	1 765 00	Small-tor-dates tetus in pregnancy
23495 3766	L265.00 L1000	Small-for-dates fetus in pregnancy  Haemorrhage in early pregnancy
56953	Z235400	Pendulous pregnant abdomen
40279	7E19012	Fimbrial extraction of tubal pregnancy
29122	7E19012	Removal of ectopic pregnancy from fallopian tube
1748	7E08400	Suction termination of pregnancy
106170	L21zz00	Multiple pregnancy NOS
5357	7E08500	Dilation of cervix and extraction termination of pregnancy
14899	621Z.00	Patient pregnant NOS
61563	L161300	Oedema or excessive weight gain in pregnancy - not delivered
64523	L091z00	Delayed/excess haemorrhage NOS following abortive pregnancy
20621	ZV25313	[V]Admission for termination of pregnancy
20021	ZV25313 ZV25311	[V]Admission for termination of pregnancy (TOP)
		, , ,
	•	·
		, , ,
	•	
54866	L030.00	
38882	L123600	
61995	L03yz00	
5044	13H7.00	Unwanted pregnancy
	Z22AD11	
38882 61995	L263A11 6174 L1500 Q0z00 L13y.00 L123000 L168400 L093.00 9mK0.00 6294 L181100 L030.00 L123600 L03yz00 13H7.00	Glycosuria during pregnancy - delivered Liver disorder in pregnancy - not delivered Incomplete termination of pregnancy Pregnancy advice NOS Fetal death due to termination of pregnancy Pertussis vaccination in pregnancy Serum pregnancy associated plasma protein-A MoM measurement Delayed/excessive haemorrhage following abortive pregnancy Post-term pregnancy NOS Triplet pregnancy NOS Undiagnosed pregnancy Iron deficiency anaemia of pregnancy Triplet pregnancy unspecified Low risk pregnancy Pregnancy associated plasma protein A level Maternal care for reduced fetal heart rate during pregnancy Pregnant, sheath failure Prolonged or post-term pregnancy Maternal problem unrelated preg affecting fetus/neonate NOS Other pregnancy vomiting Transient hypertension of pregnancy unspecified Fatigue during pregnancy with postnatal complication Renal failure following abortive pregnancy Pertussis vaccination in pregnancy invitation first letter No A/N care: not known preg. Thyroid dysfunction during pregnancy - baby delivered Abdominal pregnancy Transient hypertension of pregnancy Other ectopic pregnancy NOS Unwanted pregnancy Reported conception - pregnancy

21467	L03y200	Membranous pregnancy
48304	L10z200	Early pregnancy haemorrhage NOS - not delivered
37693	13Hd.00	Teenage pregnancy
27980	L166700	Infections of the genital tract in pregnancy
2638	L100	Pregnancy complications
99933	L092100	Bowel damage following abortive pregnancy
41122	L10zz00	Early pregnancy haemorrhage NOS
37348	Lyu2500	[X]Other specified pregnancy-related conditions
96757	L411513	Vulval varices in pregnancy
59634	L411512	Vaginal varices in pregnancy
99237	L411511	Perineal varices in pregnancy
27451	L166000	Genitourinary tract infection in pregnancy unspecified
110129	6556000	Pertussis vacc in pregnancy given by other healthcre providr
107485	Q014000	Fetus or neonate affected by unspecified ectopic pregnancy
18258	L167.00	Liver disorder in pregnancy
42015	L16y.00	Other pregnancy complications
25028	L09z.00	Complication NOS following abortion/ectopic/molar pregnancy
44734	6208.00	Pregnancy prolonged - 42 weeks
23831	ZV22y00	[V]Other specified pregnant state
41587	L210z00	Twin pregnancy NOS
24063	6207.00	Pregnancy prolonged - 41 weeks
44650	L0y00	Other specified pregnancy with abortive outcome
61284	L210200	Twin pregnancy with antenatal problem
54288	Z22D311	Query viability of pregnancy
34938	L212.00	Quadruplet pregnancy
102494	8Hh3.00	Self referral to termination of pregnancy service
1686	7E08600	Termination of pregnancy NEC
70214	L21z100	Multiple pregnancy NOS - delivered
64247	Z235.00	Observation of shape of pregnant abdomen
23751	L266.00	Large-for-dates fetus in pregnancy
39359	L385.00	Failed or difficult intubation during pregnancy
64500	L183.11	Pregnancy and drug dependence
73917	L10y200	Other haemorrhage in early pregnancy - not delivered
255	L0512	Termination of pregnancy
15433	L2100	Multiple pregnancy
20439	L123.00	Transient hypertension of pregnancy
16775	L16E.00	Pregnancy pruritus
53921	L161000	Oedema or excessive weight gain in pregnancy, unspecified
44770	L191.00	Continuing pregnancy after abortion of one fetus or more
29205	4453	Serum pregnancy test positive
46577	66AX.00	Diabetes: shared care in pregnancy - diabetol and obstet
73455	Q015200	Fetus or neonate affected by triplet pregnancy
41625	L13yz00	Other pregnancy vomiting NOS
60345	M240500	Alopecia of pregnancy
107957	115V.00	No history of ectopic pregnancy

5693	L16A.00	Glycosuria during pregnancy
36394	L16C.00	Pregnancy induced oedema+proteinuria without hypertension
73914	L412511	Thrombophlebitis of legs in pregnancy
53849	L16y000	Other pregnancy complication unspecified
105943	L165300	Asymptomatic bacteriuria in pregnancy - not delivered
36421	L167z00	Liver disorder in pregnancy NOS
25872	L16yz00	Other pregnancy complication NOS
60309	Q0y00	Maternal problems unrelated preg affecting fetus/neonate OS
67728	L150200	Post-term pregnancy - not delivered
28103	Z22A300	Concealed pregnancy
21849	L031.00	Tubal pregnancy
54577	L210000	Twin pregnancy unspecified
105654	L10y100	Other haemorrhage in early pregnancy - delivered
53685	L410500	Varicose veins of legs in pregnancy
68930	L168100	· · · ·
68840	L416200	Fatigue during pregnancy - delivered  Haemorrhoids in pregnancy and puerperium - deliv + p/n comp
53167 45862	L188300 7E07114	Abnormal GTT during pregnancy - baby not yet delivered
		Curettage of uterus for termination of pregnancy NEC
64366	L412500	Superficial thrombophlebitis in pregnancy
13968	584D.00	Antenatal ultrasound confirms intra-uterine pregnancy
14925	L10z.00 L185.11	Early pregnancy haemorrhage NOS
61935		Congenital heart disease in pregnancy
103059	7E07111	Curettage of term pregnancy NEC
16384	7E07113	Curettage of uterus for termination of pregnancy NEC
23421	615C.00	IUD failure - pregnant
3029	L166500	Infections of kidney in pregnancy
106517	L176100	Other maternal viral disease in pregnancy - baby delivered
40964	L192.00	Continuing preg after intrauterine death one fetus or more
	7F06012	Shirodkar suture in pregnancy
30302	7F12	Pregnancy operations
28107	L161.00	Oedema or excessive weight gain in pregnancy no hypertension
85960	44Cz.00	Plasma pregnancy associated plasma protein-A MoM
44057	ZV23111	[V]Pregnancy with history of hydatidiform mole
37573	Z22B900	Continuing pregnancy after abortion of sibling fetus
68694	Z22C.00	Observation of measures of pregnancy
49559	L180300	Diabetes mellitus during pregnancy - baby not yet delivered
29786	L416600	Haemorrhoids in pregnancy
57059	L187300	Orthopaedic disorder in pregnancy - baby not yet delivered
23334	L162.11	Albuminuria in pregnancy without hypertension
92579	L162.13	Uraemia in pregnancy without hypertension
38312	L162.12	Nephropathy NOS in pregnancy without hypertension
22215	Z22A200	High risk pregnancy
38346	ZV22000	[V]First normal pregnancy supervision
15318	6214	Pregnant - on history
41504	L13y000	Other pregnancy vomiting unspecified

72019	L132200	Late pregnancy vomiting - not delivered
37386	8B68.00	Pregnancy prophylactic therapy
60877	L263800	Maternal care for fetal decelerations during pregnancy
107225	L165z00	Asymptomatic bacteriuria in pregnancy NOS
54942	L123100	Transient hypertension of pregnancy - delivered
54701 63825	ZV23y00 Q014.00	[V]Other specified high-risk pregnancy
94804	67AB.00	Fetus or neonate affected by ectopic pregnancy
		Preg. prescription exempt adv.
72835	Q01z.00	Fetus/neonate affected by maternal complic pregnancy NOS
99008	Q014300	Fetus or neonate affected by tubal ectopic pregnancy
110868	L181000	Thyroid dysfunction - unspec whether in pregnancy/puerperium
66649	L41z500	Venous complication of pregnancy, unspecified
26286	L18A000	Cholestasis of pregnancy
17947	62a00	Pregnancy review
103104	L176300	Other maternal viral dis.in pregnancy-baby not yet delivered
109932	Z235211	Globular pregnant abdomen
68004	Q0100	Fetus/neonate affected by maternal complication of pregnancy
20240	6216	Pregnant - planned
65834	ZV23200	[V]Pregnancy with history of abortion
7916	Z254500	Delivered by caesarean section - pregnancy at term
21119	L182300	Anaemia during pregnancy - baby not yet delivered
9408	L10y.11	Bleeding in early pregnancy
64099	L168000	Fatigue during pregnancy unspecified
10278	L180800	Diabetes mellitus arising in pregnancy
2602	L166.11	Cystitis of pregnancy
13165	62100	Patient currently pregnant
9986	Z212.11	Pregnancy care
66594	L186.11	Heart disease during pregnancy
35158	Z225.00	Normal pregnancy
93800	Z235100	Ovoid pregnant abdomen
73727	L168z00	Fatigue during pregnancy NOS
55889	L175300	Maternal rubella during pregnancy - baby not yet delivered
7517	621C.00	Unplanned pregnancy
53908	Lyu0000	[X]Other ectopic pregnancy
34173	L12B.00	Proteinuric hypertension of pregnancy
35514	624Z.00	A/N care: precious preg. NOS
15065	8B711	Pregnancy vitamin/iron prophyl
109465	L184300	Mental disorder during pregnancy - baby not yet delivered
24038	13S00	Pregnancy benefits
16215	6211	Pregnant - urine test confirms
35592	6213	Pregnant - V.E. confirms
25254	Z2100	Care relating to reproduction and pregnancy
46609	Z22C800	Number of lost pregnancies
29692	615C.11	Pregnant, IUD failure
50440	Z22A500	Biochemical pregnancy

FC2F2	7\/22100	N/Out and a second a second and
56252	ZV22100	[V]Other normal pregnancy supervision
21196	ZV23.00	[V]High-risk pregnancy supervision
30618	Z22AB00	Unplanned pregnancy
10775	8B74.00	Iron supplement in pregnancy
48534	ZV23100	[V]Pregnancy with history of trophoblastic disease
73559	L13z000	Unspecified pregnancy vomiting unspecified
13984	584E.00	Antenatal ultrasound confirms ectopic pregnancy
9754	Z22A400	Early stage of pregnancy
67893	L2C00	Malnutrition in pregnancy
70993	L16Az00	Glycosuria during pregnancy NOS
23438	L2z00	Risk factors in pregnancy NOS
105694	ZVu2300	[X]Supervision of other normal pregnancy
53097	Z22C313	Duration of pregnancy
58156	L03y.00	Other ectopic pregnancy
55730	ZV22.11	[V]Supervision of normal pregnancy
5709	6213	Pregnancy care
100104	95B00	Health in Pregnancy grant claim form issued
72883	Lyu2100	[X]Other vomiting complicating pregnancy
59588	L411500	Genital varices in pregnancy
67863	Z22B.00	Observation of quantity of pregnancy
12890	Z227.00	Confirmation of pregnancy
47080	L162.00	Unspecified renal disease in pregnancy
3191	L16y500	Abdominal pain in pregnancy
27740	L1600	Other pregnancy complication NEC
67698	L150000	Post-term pregnancy unspecified
29623	62H4.00	Rh screen - 2nd preg. sample
21438	7E08411	Vacuum termination of pregnancy
51298	6215	Pregnant - on abdom. palpation
35912	ZV22200	[V]Pregnancy confirmed
99980	L168300	Fatigue during pregnancy - not delivered
29593	6223	Antenatal care: 3rd pregnancy
49407	L2B00	Low weight gain in pregnancy
52583	L168.00	Fatigue during pregnancy
69599	L21y.00	Other multiple pregnancy
39117	L126500	Eclampsia in pregnancy
863	L398200	Caesarean section - pregnancy at term
90776	62a11	Review of pregnancy
91254	Z235200	Rounded pregnant abdomen
109416	62H5.00	Rh screen - 3rd preg. sample
69815	62H3.00	Rh screen - 1st preg. sample
11989	8HHV.00	Referral for termination of pregnancy
37701	Z22A.00	Observation of pattern of pregnancy
33441	L511.00	Maternal care for viable fetus in abdominal pregnancy
106957	9Nif.00	Did not attend pertussis vaccination in pregnancy
24603	L10y.00	Other haemorrhage in early pregnancy

47608	L177.00	Infactions of bladder in prognancy
63751	L177.00 L16A300	Infections of bladder in pregnancy Glycosuria during pregnancy - not delivered
15418	L166300	Genitourinary tract infection in pregnancy - not delivered
59313	Z22BA00	Contin pregnancy after intrauterine death of sibling fetus
69722	ZV23z00	[V]Unspecified high-risk pregnancy
14842	6217	
42614	Z2200	Pregnant - unplanned - wanted
53490	L178.00	Pregnancy observations
		Infections of urethra in pregnancy
43344	ZV61800	[V]Illegitimate pregnancy
10173	Z23D200	Pregnant abdomen observation
52685	ZV23000	[V]Pregnancy with history of infertility
50512	L031z00	Tubal pregnancy NOS
49502	L228.00	Multiple pregnancy with malpresentation
50058	13SZ.00	Pregnancy benefit NOS
69011	L132000	Late pregnancy vomiting unspecified
10185	L1300	Excessive pregnancy vomiting
10184	67A3.00	Pregnancy smoking advice
97349	L121300	Renal hypertension in preg/childbirth/puerp - not delivered
101518	L132z00	Late pregnancy vomiting NOS
71730	L123300	Transient hypertension of pregnancy - not delivered
31162	L165.00	Asymptomatic bacteriuria in pregnancy
52048	Z22AB11	Accidental pregnancy
54938	L162000	Unspecified renal disease in pregnancy unspecified
62358	L167000	Liver disorder in pregnancy unspecified
110888	67lt.00	Advice on risk harm to mother from maternl medictn dur preg
38771	Lyu2200	[X]Other venous complications in pregnancy
15634	L166z00	Genitourinary tract infection in pregnancy NOS
43000	L16D.00	Excessive weight gain in pregnancy
14651	13H8.00	Illegitimate pregnancy
108236	621D.00	Concealed pregnancy
15033	ZV61900	[V]Other unwanted pregnancy
67164	L18z300	Medical condition NOS in pregnancy - baby not yet delivered
93303	ZV22400	[V]Supervision of other normal pregnancy
6184	ZV22.00	[V]Normal pregnancy
48281	Z22D200	Non-viable pregnancy
29746	8B75.00	Vitamin supplement - pregnancy
16611	ZV22300	[V]Pregnant state, incidental
1130	L210.00	Twin pregnancy
52221	L03y000	Cervical pregnancy
59650	Z235300	Transversely enlarged pregnant abdomen
69327	L10yz00	Other haemorrhage in early pregnancy NOS
51956	L212200	Quadruplet pregnancy with antenatal problem
10306	Z22C314	Weeks pregnant
45965	Z22C311	Pregnancy duration
26055	L263A00	Maternal care for fetal bradycardia during pregnancy

61301	L10y000	Other haemorrhage in early pregnancy unspecified
10261	L200	Risk factors in pregnancy
106268	8IEc.00	Pertussis vaccination in pregnancy declined
24944	L163300	Pregnancy care of habitual aborter
20118	62012	Static weight gain pregnancy
58142	L16A000	Glycosuria during pregnancy unspecified
61835	L161z00	Oedema or excessive weight gain in pregnancy NOS
23995	L1511	Post-term pregnancy
35646	L123z00	Transient hypertension of pregnancy NOS
93895	Z22B500	Quintuplet pregnancy
65256	L164.00	Peripheral neuritis in pregnancy
67975	L166.00	Genitourinary tract infections in pregnancy
36006	L16z.00	Pregnancy complication NOS
61466	Z22A211	HRP - High risk pregnancy
26866	L2y00	Other specified risk factors in pregnancy
35855	L15z.00	Prolonged pregnancy NOS
2937	L175.11	Rubella contact in pregnancy
50421	Z22A900	Unwanted pregnancy
37048	6282	A/N care:10yrs+since last preg
49193	67A7.11	Care of teeth advice -in preg.
11986	7E13300	Excision of ruptured ectopic tubal pregnancy
97034	67AE.00	Folic acid advice in first trimester of pregnancy
106737	9mK2.00	Pertussis vaccination in pregnancy invitation third letter
102362	389B.00	Assessment for termination of pregnancy
55618	ZV23600	[V]Supervisn/pregnancy wth history insufficnt antenatal care
37038	Z23D100	Girth of pregnant abdomen
29631	6222	Antenatal care: 2nd pregnancy
65555	L132.00	Late vomiting of pregnancy
107698	Z236300	Pregnant uterus displaced laterally
4536	62111	Pregnancy confirmed
111540	L415500	Other phlebitis in pregnancy
32493	Z22AD00	Presentation of pregnancy
44729	L031000	Fallopian tube pregnancy
43140	67A2.00	Diet in pregnancy advice
91888	L181300	Thyroid dysfunction in pregnancy - baby not yet delivered
12837	7F2B100	Ultrasound monitoring of early pregnancy
30351	67A6.00	Drugs in pregnancy advice
15567	6218	Pregnant -unplanned-not wanted
33724	L03z.00	Ectopic pregnancy NOS
100892	Lyu2400	[X]Other+unspcf genitourinary tract infection in pregnancy
127	6200	Patient pregnant
13672	8HHf.00	Refer to early pregnancy unit
32073	L000	Pregnancy with abortive outcome
64292	L16y300	Other pregnancy complication - not delivered
106425	62NL.00	Antenatal 31 week examination

100543	1222200	Coultant de desirb communication with contract and black
109543	L332200	Cord tangled with compression with antenatal problem
102300	Lyu2A00	[X]Abnormal finding on antenatal screening of mother
111263	L230200	Disproportion - major pelvic abnormality with antenatal prob
55111	6B22.00	Sure Start antenatal visit
13418	62W00	Antenatal blood tests
61533	L270200	Polyhydramnios with antenatal problem
14085	62GB.00	Antenatal ultrasounds scan at 4-8 weeks
42326	62KZ.00	Antenatal syphilis screen NOS
18536	62b00	Antenatal HIV screening
99475	68b5.00	Antenatal screening result pending
13168	62NZ.00	Antenatal examination NOS
63448	Z675.00	Antenatal class
100596	68b3.00	Antenatal screening shows significant disorder
67926	ZV28z00	[V]Unspecified antenatal screening
16613	584C.00	Antenatal ultrasound result received
23667	L413.00	Antenatal deep vein thrombosis
53683	L452300	Obstetric nonpurulent mastitis with antenatal complication
104764	L236200	Hydrocephalic disproportion with antenatal problem
56967	9NV1.00	Antenatal clinic
13417	62K00	Antenatal syphilis screen
108099	L39z300	Complications of labour and delivery NOS with antenatal prob
70096	L224200	Transverse lie with antenatal problem
104359	ZVu2600	[X]Other antenatal screening based on amniocentesis
294	6211	Antenatal care
104178	Lyu2600	[X]Other abnormal findings on antenatal screening of mother
27056	62GD.00	Antenatal ultrasound scan at 17-22 weeks
98481	68b4.00	Repeat antenatal screening required
14084	62GC.00	Antenatal ultrasound scan at 9-16 weeks
28732	62c00	Antenatal screening
6095	9N1N.00	Seen in antenatal clinic
99849	68bA.00	Antenatal screening, at risk couple identified
21957	62111	AFP test - antenatal
73765	L311200	Secondary uterine inertia with antenatal problem
102246	L265200	Small-for-dates with antenatal problem
73191	L226200	Brow presentation with antenatal problem
69254	L264200	Intrauterine death with antenatal problem
104766	L30z200	Obstructed labour NOS with antenatal problem
109071	38B6.00	Antenatal risk assessment
7845	Z212.00	Antenatal care
30378	L244312	Rectocele complicating antenatal care - baby not delivered
101938	L390300	Maternal distress with antenatal problem
90277	L350200	Rupture of uterus before labour with antenatal problem
97259	68b6.00	Antenatal screening declined
111183	8IHD.00	Health visitor antenatal visit declined
106588	62NJ.00	Antenatal 22 week examination

30801	62OZ.00	Misc. antenatal data NOS
49665	ZV28600	[V]Antenatal screening for chromosomal anomalies
21543	62200	Antenatal care: gravida No.
109313	9Nil.00	Did not attend antenatal appointment
102755	8CEM.00	Downs syndrome antenatal screening information leaflet given
37985	L2AX.00	Abnormal finding on antenatal screening of mother
91272	L440300	Puerperal cerebrovascular disorder with antenatal comp
99286	L28y200	Other amniotic/membrane problem with antenatal problem
99479	L267200	Other placental conditions with antenatal problem
10056	62N00	Antenatal examinations
44401	L305200	Shoulder dystocia with antenatal problem
35484	679E.00	Antenatal education
103512	L330200	Prolapse of cord with antenatal problem
99939 101354	L33y200 L244311	Other umbilical cord complications with antenatal problem
		Cystocele complicating antenatal care - baby not delivered  Antenatal ultrasound scan at 22-40 weeks
39611	62GE.00	
40597	ZV28y00	[V]Other specified antenatal screening
70046	L2A4.00	Abnormal radiological finding on antenatal screen of mother
105047	L2A2.00	Abnormal cytological finding on antenatal screen of mother
96678	L33z200	Umbilical cord complications NOS with antenatal problem
15685	L2A00	Abnormal findings on antenatal screening of mother
2029	62G00	Antenatal ultrasound scan
103787	1514100	Estimated date of delivery by antenatal ultrasound scan
31570	6224	Antenatal care: multip
97391	L281200	Premature rupture of membranes with antenatal problem
65725	L413000	Antenatal deep vein thrombosis unspecified
13819	62F00	Antenatal amniocentesis
107186	L266200	Large-for-dates with antenatal problem
16750	6221	Antenatal care: primigravida
71851	L229200	Prolapsed arm with antenatal problem
105865	67AJ.00	Provision of information about antenatal screening
109043	9NFV.00	Health visitor antenatal visit
47928	L280200	Oligohydramnios with antenatal problem
6298	ZV28.00	[V]Antenatal screening
45032	62000	Misc. antenatal data
66496	L222200	Breech presentation with antenatal problem
14002	8HT9.00	Referral to antenatal clinic
14083	62GZ.00	Antenatal ultrasound scan NOS
13419	62L00	Antenatal blood group screen
42120	L2A0.00	Abnormal haematologic find on antenatal screening of mother
13416	62M00	Antenatal sickle cell screen
69788	L260200	Fetal-maternal haemorrhage with antenatal problem
73734	ZVu2900	[X]Other antenatal screening
95107	L312200	Other uterine inertia with antenatal problem
103677	Eu32B00	[X]Antenatal depression

100022	CONK OO	Antomatal 25 week avendination
106923	62NK.00	Antenatal 25 week examination
108811	L245300	Cervical incompetence with antenatal problem
73407	L261200	Rhesus isoimmunisation with antenatal problem
101980	65QG.00	Antenatal screening shows non sig haemoglobinopathy carrier
44828	L263200	Fetal distress with antenatal problem
45091	62Y00	Routine antenatal care
71862	L323200	Delayed delivery second twin with antenatal problem
71794	L307200	Other failed trial of labour with antenatal problem
51432	62FZ.00	Antenatal amniocentesis NOS
97523	68b00	Antenatal screening status
28290	L2A3.00	Abnormal ultrasonic finding on antenatal screening of mother
36226	L2A1.00	Abnormal biochemical finding on antenatal screen of mother
100502	L413200	Antenatal deep vein thrombosis with antenatal complication
61203	L413z00	Antenatal deep vein thrombosis NOS
100578	L255200	Fetus with drug damage with antenatal problem
69072	L262200	Other blood-group isoimmunisation with antenatal problem
49617	622Z.00	Antenatal care: gravida NOS
26873	L413.11	DVT - deep venous thrombosis, antenatal
33009	6254	A/N care: H/O child abuse
29610	62NB.00	A/N 36 week examination
61162	L250200	Fetus with central nervous system malformation + a/n problem
52044	6252	A/N care: poor A/N attender
35513	6284	A/N care: primip. > 30 years
26695	625Z.00	A/N care: social risk NOS
55605	62NH.00	A/N 42 week examination
30797	6233	A/N care: grand multip
23013	6231	A/N care: uncertain dates
36516	62F4.00	A/N amniocentesis wanted
37046	628Z.00	A/N risk NOS
107506	62H2.00	A/N Rh screen offered
25331	6206.11	Vaginal 'show' - A/N
64537	62GA.00	A/N U/S scan for slow growth
13821	62F6.00	A/N amniocentesis - normal
19772	62F3.00	A/N amniocentesis - not wanted
70840	L240311	Bicornuate uterus complicating a/n care, baby not delivered
33287	62F1.00	A/N amniocentesis -not offered
13171	62N8.00	A/N 32 week examination
52049	62G3.00	A/N U/S scan not wanted
33008	6285	A/N care: multip. > 35 years
26696	6253	A/N care: late booker
24219	62A00	A/N care provider
13308	62500	A/N care: social risk
26692	6236	A/N care: poor obstetr history
37222	62G1.00	A/N U/S scan not offered
25391	62112	Alpha-feto protein test - A/N

35512	6281	A/N care: under 5ft tall
31251	62700	A/N care: gynae. risk
26551	62NE.00	A/N 39 week examination
68089	62HZ.00	A/N Rh antibody screen NOS
26691	6235	A/N care: H/O perinatal death
35826	62G6.00	A/N U/S scan normal += dates
30885	62G4.00	A/N U/S scan wanted
70289	62F9.00	A/N amnio. for ? neural tube
26693	62600	A/N care: medical risk
73099	L246311	Polyp of cervix complicating a/n care- baby not delivered
20401	L241311	Uterine fibroid complicating a/n care, baby not delivered
65450	62F2.00	A/N amniocentesis - offered
24236	62AZ.00	A/N care provider NOS
26553	62ND.00	A/N 38 week examination
102160	L283200	Prolonged artificial rupture of membranes with a/n problem
64141	62K2.00	A/N syphilis screen-blood sent
26550	62A2.00	A/N care from consultant
89025	L237200	Other fetal abnormality causing disproportion with a/n prob
102099	62MZ.00	A/N sickle cell screen NOS
47415	62G5.00	A/N U/S scan awaited
13415	62A4.00	A/N care midwifery led
54734	L28z200	Amniotic cavity and membrane problem NOS with a/n problem
14086	62G8.00	A/N U/S scan abnormal
37221	62G7.00	A/N U/S scan normal +? dates
66608	L241300	Tumour of uterine body complicating a/n care, baby not deliv
71797	L248300	Vulval abn complicating a/n care - baby not yet delivered
37029	62NG.00	A/N 41 week examination
29727	62NA.00	A/N 35 week examination
108885	62L1.00	A/N blood gp screen not done
39172	62L2.00	A/N blood group screen done
38165	6237	A/N care: H/O trophoblast.dis.
35511	6234	A/N care: H/O stillbirth
26875	6232	A/N care: recurrent aborter
9546	62300	A/N care: obstetric risk
73120	L247300	Vaginal abnormality complicating a/n care-baby not delivered
24214	62A1.00	A/N care from G.P.
13169	62N5.00	A/N 24 week examination
29627	62N7.00	A/N 30 week examination
3517	62N1.00	A/N booking examination
62147	62F8.00	A/N amnio. for ? chrom.abnorm.
37047	6242	A/N care: H/O infertility
27057	62G9.00	A/N U/S scan for ? abnormality
70616	62M2.00	A/N sickle cell screen done
29059	62A3.00	A/N - shared care
108867	62M1.00	A/N sickle screen not done

12260	6211 00	A /AL Discontibulate and a series
12260	62H00	A/N Rh antibody screen
41955	62F5.00	A/N amniocentesis - awaited
13166	62N3.00	A/N 16 week examination
35510	6241	A/N care: elderly primip.
26552	62NC.00	A/N 37 week examination
29280	62NF.00	A/N 40 week examination
3786	62800	A/N care: risk NOS
39728	62011	Fetal maturity - A/N
13822	62F7.00	A/N amniocentesis - abnormal
71912	62H1.00	A/N Rh screen not offered
26694	6251	A/N care: poor home conditions
70186	62LZ.00	A/N blood group screen NOS
26690	623Z.00	A/N care: obstetric risk NOS
98957	L240300	Cong abnorm uterus complicating a/n care, baby not delivered
13170	62N9.00	A/N 34 week examination
109166	62K1.00	A/N syphilis screen not done
13167	62N2.00	A/N 12 weeks examination
37220	62G2.00	A/N U/S scan offered
29364	62N4.00	A/N 20 week examination
26554	62N6.00	A/N 28 week examination
31250	6283	A/N care: primip. < 17 years
30209	ZV27000	[V]Single live birth
20573	Q48D000	[X]Fresh stillbirth
11966	ZV27.11	[V]Live birth
8906	ZV27.12	[V]Stillbirth
41253	7F11	Childbirth operations
10719	6331	Single live birth
28726	7F19100	Water birth delivery
58978	Q20y.00	Other specified birth trauma
37884	Z254D00	Face to pubes birth
72025	ZV3zz00	[V]Unspecified birth, NOS
8776	Q48D.00	[X] Stillbirth
5253	633a.00	Birth of child
31203	6332	Single stillbirth
13287	63311	Livebirth
17354	63313	Triplet birth
1825	63314	Twin birth
1214	6311	Home birth
2353	63E2.00	Normal birth
974	Q4z15	Stillbirth NEC
110211	633C.00	Intrapartum stillbirth
70813	ZV27500	[V]Other multiple birth, all live born
37878	Z254E11	Multiple birth delivery
42324	L34z.00	Vulval/perineal trauma during delivery NOS
55124	L39yz00	Other complications of labour and delivery NOS

27254	000000	
27351	Q036.00	Fetus or neonate affected by precipitate delivery
43918	L340400	Fourchette tear during delivery
33915	L213.00	Multiple delivery
5213	7F16400	Low forceps cephalic delivery
25223	L396.00	Vacuum extractor delivery
57957	7F1Ay00	Other specified other method of delivery
7670	L398z00	Caesarean delivery NOS
24243	L263400	Labour and delivery complic by meconium in amniotic fluid
15828	14Y4.00	Born by breech delivery
69780	Lyu5100	[X]Other and unspecified forceps delivery
62862	L342200	Third degree perineal tear during delivery with p/n problem
68752	Z253300	Normal rate of delivery
33773	7F19y00	Other specified normal delivery
30775	62B8.00	Midwife unit delivery booking
6452	L395.00	Forceps delivery
239	L2011	Spontaneous vaginal delivery
95858	L34y100	Other vulval/perineal trauma during delivery- delivered
29070	7F15000	Spontaneous breech delivery
19605	L341z00	Second degree perineal tear during delivery NOS
57945	7F17200	Vacuum delivery before full dilation of cervix
72022	L343000	Fourth degree perineal tear during delivery, unspecified
19607	L344000	Unspecified perineal laceration during delivery, unspecified
3365	L142.11	Premature delivery
27914	62V00	Delivery place planned
90885	Lyu4900	[X]Labour+delivery complicated by other cord entanglement
56310	Z2500	Delivery observations
12052	Z257.00	Delivery normal
11532	7F14.00	Breech extraction delivery
13164	62BZ.00	Delivery booking - place NOS
61212	L34y.00	Other vulval and perineal trauma during delivery
61077	7F16200	Mid forceps cephalic delivery with rotation
5866	7F100	Induction and delivery operations
65940	7F16500	Trial of forceps delivery
19608	L340z00	First degree perineal tear during delivery NOS
52875	L398000	Caesarean delivery unspecified
83535	Lyu5000	[X]Other single spontaneous delivery
47625	Z22C200	Estimated date of delivery from last normal period
17744	7F13100	Lower uterine segment caesarean delivery NEC
15073	7F13y00	Other specified other caesarean delivery
9800	L398300	Delivery by elective caesarean section
37699	L396z00	Vacuum extractor delivery NOS
72021	L343100	Fourth degree perineal tear during delivery - delivered
107136	Q031.11	Fetus affected by malpresentation during delivery
17684	L395.11	Keilland's forceps delivery
20425	L395.12	Neville - Barnes forceps delivery

4780	L2000	Normal delivery in a completely normal case
5868	Ly000	Spontaneous vertex delivery
106113	Lyu5800	[X]Multiple delivery, unspecified
62406	L323000	Delayed delivery second twin unspecified
61540	Z212100	Delivery place planned
47157	L34zz00	Vulval/perineal trauma during delivery NOS
58176	62C2.00	Full stay delivery booking
32283	Z212200	Home delivery planned
106808	L34z200	Vulval/perineal trauma during delivery NOS with p/n problem
740	7F12.00	Elective caesarean delivery
111579	Z263300	Condition of membranes at delivery
34102	Z262700	Incomplete placenta at delivery
21554	7F16900	Kielland forceps cephalic delivery with rotation
31254	L340100	First degree perineal tear during delivery - delivered
23394	7F16300	Mid forceps cephalic delivery NEC
54591	7F14z00	Breech extraction delivery NOS
3085	7F12z00	Elective caesarean delivery NOS
22491	Ly100	Spontaneous breech delivery
19609	L340600	Vaginal tear during delivery
39168	L342100	Third degree perineal tear during delivery - delivered
44235	L296.00	Vaginal delivery following previous caesarean section
40706	L344z00	Unspecified perineal laceration during delivery NOS
27993	62V0.00	Home delivery planned
58721	L20z.00	Normal delivery in completely normal case NOS
33477	L398100	Caesarean delivery - delivered
27963	L323.00	Delayed delivery of second twin, triplet etc
37509	7F1A300	Drainage of hydrocephalus of fetus to facilitate delivery
30806	L34yz00	Other vulval/perineal trauma during delivery NOS
30373	Z22C100	Estimated date of delivery from last period
42572	L323100	Delayed delivery second twin - delivered
15514	7F13000	Upper uterine segment caesarean delivery NEC
47546	7F12y00	Other specified elective caesarean delivery
86399	7F17y00	Other specified vacuum delivery
13352	L3400	Trauma to perineum and vulva during delivery
49446	L396100	Vacuum extractor delivery - delivered
15256	L344.00	Unspecified perineal laceration during delivery
37054	L341100	Second degree perineal tear during delivery - delivered
3108	7F1B000	Episiotomy to facilitate delivery
47863	Lyu5200	[X]Other single delivery by caesarean section
9160	Z257100	Spontaneous vertex delivery
58844	L396000	Vacuum extractor delivery unspecified
57488	L34z100	Vulval/perineal trauma during delivery NOS - delivered
27731	L345.12	Vulval and perineal haematoma during delivery
104872	L143100	Premature labour with premature delivery
42275	L395300	Mid-cavity forceps delivery

40876	L342z00	Third degree perineal tear during delivery NOS
93273	L39z100	Complications of labour and delivery NOS - delivered
42755	L387.00	Spinal/epidural anesth-induced headache dur labour/delivery
57789	L395400	Delivery by combination of forceps and vacuum extractor
19603	L340000	First degree perineal tear during delivery, unspecified
4786	L213200	Multiple delivery, all by caesarean section
20002	7F16000	High forceps cephalic delivery with rotation
66501	L39zz00	Complications of labour and delivery NOS
34333	Z262711	Incomplete delivery of placenta
19602	L341000	Second degree perineal tear during delivery, unspecified
39866	7F1A200	Cleidotomy of fetus to facilitate delivery
30805	L34y000	Other vulval/perineal trauma during delivery, unspecified
11530	Z254900	Vaginal delivery
67489	L34z000	Vulval/perineal trauma during delivery NOS unspec
4638	7F13.00	Other caesarean delivery
40744	Z254A00	Abnormal delivery
25157	L142100	Early onset of delivery - delivered
17704	L395.13	Simpson's forceps delivery
39573	Z265900	Umbilical cord not around baby's neck at delivery
5033	7F16100	High forceps cephalic delivery NEC
26549	62B1.00	Delivery: no place booked
50293	7F1z.00	Induction and delivery operations NOS
67862	L3900	Other complications of labour and delivery NEC
63277	L393.00	Acute renal failure following labour and delivery
32380	L3412	Vulval delivery trauma
23866	7F1B100	Symphysiotomy to facilitate delivery
618	L398400	Delivery by emergency caesarean section
66315	Lyu5500	[X]Other specified assisted single delivery
23791	L38A.00	Failed or difficult intubation during labour and delivery
99608	7F1Bz00	Other operation to facilitate delivery NOS
98749	7F1B400	Incision of cervix to facilitate delivery
30274	L395200	Low forceps delivery
35190	7F13z00	Other caesarean delivery NOS
40710	L395z00	Forceps delivery NOS
26712	L340300	Labial tear during delivery
62789	Q031.00	Fetus/neonate affected by malposition/disproportion-delivery
2624	Q033.00	Fetus or neonate affected by vacuum extraction delivery
19599	L340.00	First degree perineal tear during delivery
11650	L342.00	Third degree perineal tear during delivery
51736	7F17100	Low vacuum delivery
36703	L345.00	Vulval and perineal haematoma during delivery
2458	7F17.00	Vacuum delivery
22975	62B3.00	G.P. unit delivery booking
32988	62B5.00	Private home delivery booking
49485	L263600	Labour+delivery complicatd by biochem evidence/fetal stress

ı	5522	L3z00	Complications of labour and delivery NOS
	3319	Lyu4.00	[X]Complications of labour and delivery
	4789	Q030.11	Fetus affected by breech delivery
	4411	Z254300	Delivered by mid-cavity forceps delivery
	8230	Z254800	Deliveries by spontaneous breech delivery
	6137	L142z00	Early onset of delivery NOS
	9941	L142200	Early onset of delivery unspecified
	0738	7F19000	Manually assisted vaginal delivery
	4628	7F16600	Failed forceps delivery
			·
	3480	7F16y00	Other specified forceps cephalic delivery
	7245	L345000	Vulval and perineal haematoma during delivery, unspecified
	3959	633Z.00	Outcome of delivery NOS
	0615	L345z00	Vulval and perineal haematoma during delivery NOS
	0953	Z253211	Precipitate delivery
	3572	L3y00	Other specified complications of labour or delivery
	9668	7F12100	Elective lower uterine segment caesarean delivery
	9791	Z257.15	ND - Normal delivery
	9625	L263300	Labour and delivery complicated by fetal heart rate anomaly
	8861	L398500	Delivery by caesarean hysterectomy
	9733	L388.00	Cardiac comps of anaesthesia during labour and delivery
	5480	14Y3.00	Born by normal vaginal delivery
	8059	Lyu5400	[X]Other manipulation-assisted delivery
	9971	Z253100	Slow rate of delivery
	1226	ZV27y00	[V]Other specified outcome of delivery
105	5276	7F14000	Breech extraction delivery with version
103	3890	1514000	Estimated date of delivery from last period
102	1229	Z255A00	Observation of delivery push in labour
50	0675	L395100	Forceps delivery - delivered
44	4472	L39y.00	Other complications of labour and delivery
48	8742	Z254C00	Face delivery
33	3884	L213000	Multiple delivery, all spontaneous
14	4892	7F17z00	Vacuum delivery NOS
64	4464	7F15z00	Other breech delivery NOS
13	3163	62B00	Delivery booking place
105	5419	7F17000	High vacuum delivery
8	8879	1514.12	Estimated date of delivery
	720	L398.00	Caesarean delivery
29	9885	L300	Complications occurring during labour and delivery
14	4727	14Y1.00	Born by forceps delivery
1!	5675	14Y5.00	Born by ventouse delivery
	167	7F19.00	Normal delivery
32	2991	62C1.00	Short stay delivery booking
	688	7F17.11	Ventouse delivery
	463	L222.12	Breech delivery
(	6141	L396.11	Ventouse delivery

28903 Z254200 Delivered by low forceps delivery  100597 L39y100 Other complications of labour and delivery - delivered  12014 ZV27.00 [V]Outcome of delivery  61259 7F12000 Elective upper uterine segment caesarean delivery  105032 L143000 Premature labour without delivery  42885 Z254.00 Observation of pattern of delivery  107557 63D7.00 Complete placenta at delivery  37254 Q030.00 Fetus or neonate affected by breech delivery and extraction  3078 Q032.00 Fetus or neonate affected by forceps delivery  19600 L341.00 Second degree perineal tear during delivery  39576 L343.00 Fourth degree perineal tear during delivery  Vulval tear during delivery	
12014 ZV27.00 [V]Outcome of delivery  61259 7F12000 Elective upper uterine segment caesarean delivery  105032 L143000 Premature labour without delivery  42885 Z254.00 Observation of pattern of delivery  107557 63D7.00 Complete placenta at delivery  37254 Q030.00 Fetus or neonate affected by breech delivery and extraction  3078 Q032.00 Fetus or neonate affected by forceps delivery  19600 L341.00 Second degree perineal tear during delivery  39576 L343.00 Fourth degree perineal tear during delivery	
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39576 L343.00 Fourth degree perineal tear during delivery	
31280 L340500 Vulval tear during delivery	
25545 Z212300 Delivery place booked	
70242 7F16700 Barton forceps cephalic delivery with rotation	
71057 L345100 Vulval and perineal haematoma during delivery - delivered	
1279 7F16.00 Forceps cephalic delivery	
22976 62B2.00 Home delivery booked	
41414 62B6.00 Delivery booking place changed	
104873 L143.00 Premature labour and delivery	
50847 L398600 Caesarean delivery following previous Caesarean delivery	
18287 7F22500 Normal delivery of placenta	
19604 L342000 Third degree perineal tear during delivery, unspecified	
2943 L222.11 Assisted breech delivery	
96089 Z253200 Rapid rate of delivery	
8967 7F19z00 Normal delivery NOS	
51065 62CZ.00 Delivery booking - stay NOS	
33378 7F15.00 Other breech delivery	
53937 L395000 Forceps delivery unspecified	
90497 L39z400 Complications of labour and delivery NOS with p/n problem	
23994 7F15100 Assisted breech delivery	
60256 Z254B00 Brow delivery	
60538 L213100 Multiple delivery, all by forceps and vacuum extractor	
15926 7F15y00 Other specified other breech delivery	
95780 Z262600 Complete placenta at delivery	
65702 L3800 Complications of anaesthesia during labour and delivery	
14686 7F16z00 Forceps cephalic delivery NOS	
67052 L344100 Unspecified perineal laceration during delivery - delivered	
15167 L142.00 Early onset of delivery	
11194 Z257.12 Spontaneous vaginal delivery	
25681 Z257.13 SVD - Spontaneous vaginal delivery	
9383 Z257.11 Normal delivery	
17492 Z257.14 FTND - Full term normal delivery	
31780 L222.13 Spontaneous breech delivery	
22498 Z253.12 Rate of delivery	
52151 Lyu4800 [X]Labour+delivery complicat/oth evidence of fetal distress	

39319	8HE7.00	Discharged from hospital within 6 hours of delivery
73048	7F14y00	Other specified breech extraction delivery
109452	7F1By00	Other specified other operation to facilitate delivery
69920	L39z.00	Complications of labour and delivery NOS
57652	L343z00	Fourth degree perineal tear during delivery NOS
53100	7F20z00	Instrumental removal products of concep delivered uterus NOS
41494	7F21z00	Manual removal products of conception delivered uterus NOS
27800	L124300	Mild or unspecified pre-eclampsia - not delivered
41588	L112200	Placental abruption - not delivered
3364	L126300	Eclampsia - not delivered
65759	L244300	Other uterine/pelvic floor abnormal - baby not yet delivered
62880	L110200	Placenta praevia without haemorrhage - not delivered
69002	L11y200	Other antepartum haemorrhage - not delivered
67447	L125300	Severe pre-eclampsia - not delivered
64752	L111200	Placenta praevia with haemorrhage - not delivered
53160	L127300	Pre-eclampsia or eclampsia with hypertension - not delivered
31617	L130200	Mild hyperemesis-not delivered
57852	L100200	Threatened abortion - not delivered
64298	L141100	Other threatened labour - not delivered
54082	L169300	Herpes gestationis - not delivered
48830	L140100	Threatened premature labour - not delivered
54576	Z252.00	Mother not delivered
2549	L222.00	Breech presentation
13288	2722	O/E - breech presentation
46298	L222z00	Breech presentation NOS
55359	Q017100	Fetus/neonate affected by breech presentation before labour
56867	L300300	Obstructed labour due to breech presentation
66786	L397z00	Breech extraction NOS
48516	Z254400	Deliveries by breech extraction
4955	L397.00	Breech extraction
66106	L397000	Breech extraction unspecified
15610	7F06300	External version of breech
1534	7F14100	Forceps to aftercoming head (breech)
66307	L222000	Breech presentation unspecified
16097	Q214z00	Liveborn with unspecified fetal distress NOS
33258	L512.00	Maternal care for diminished fetal movements
67883	L514.00	Maternal care for poor fetal growth
50733	L263.12	Fetal bradycardia
23009	Q213.11	Fetal distress in labour - liveborn
48463	Q410.00	Fetal blood loss
23565	L2500	Known or suspected fetal abnormality
43428	ZV28400	[V]Screening for fetal growth retardation using ultrasonics
5479	Q212.00	Liveborn with prelabour fetal distress
106201	Qyu5400	[X]Other specified fetal and neonatal haemorrhages
31481	7F04300	Electrode applied to fetal scalp

107512 Q102.11 Fetal malnutrition without mention of 'light for dates' 96711 Q408200 Eschericha coli intra-amniotic fetal infection 98261 7F27y00 OS non routine obstetric scan for fetal observations 43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation 64959 7F01100 Fetoscopic examination of fetus and sampling of fetal bloo	od
98261 7F27y00 OS non routine obstetric scan for fetal observations 43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od .
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19590 62O1.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od
48576 L22y.00 Other fetal malposition and malpresentation	od
	od
64959 7F01100 Fetoscopic examination of fetus and sampling of fetal bloo	od
25540 1255200 144 1 1 5 5 1 1	
36640 L265300 Maternal care for poor fetal growth	
59566 Q41yz00 Fetal or newborn haemorrhage NOS	
72837 2763 O/E - fetal heart 40-80	
62654 4H72.00 Amniotic fetal cell abnormal	
28977 L237.00 Other fetal abnormality causing disproportion	
46514 L263700 Maternal care for fetal hypoxia	
60301 7P0H500 Fetal echocardiography	
27801 2755 O/E - fetal movemnt.diminished	
67438 Q40y000 Intrauterine fetal sepsis, unspecified	
63905 Lyu3A00 [X]Maternal care/known or suspected fetal problem,unspe	
46784 Q023200 Fetus/neonate affected by materno-fetal transplacental tra	ans
50281 Q213z00 Liveborn with labour fetal distress NOS	
25153 2753 O/E - fetal movements felt	
103893 7F27400 Fetal ascites scan	
66619 Q023011 Fetus/neonate affected by feto-fetal transplacental transfu	JS
101225 BBK3400 [M]Fetal rhabdomyoma	
104765 Q102.00 Fetal malnutrition, no mention light or small for gest age	
96669 L22z.00 Fetal malposition and malpresentation NOS	
55071 Z271C00 Fetal heart baseline pattern	
22815   27500   O/E - fetal movements	
69819 274Z.00 O/E - fetal station NOS	
56744 Q1011 Fetal malnutrition	
9164 58411 Fetal U-S scan	
66175 Q45z.00 Fetal or newborn blood disorder NOS	
102019 Q410600 Fetal haemorrhage into mother's circulation	
104829 L260000 Fetal-maternal haemorrhage unspecified	
97471 Q212z00 Liveborn with prelabour fetal distress NOS	
100323 4H700 Amniotic fetal cell study	
73393 4H71.00 Amniotic fetal cell study: NAD	
53296 42YG.00 Fetal cell test	
48798 Q4500 Fetal and newborn blood disorders	
21893 L510.00 Maternal care for hydrops fetalis	
60774 Z271100 Fetal heart acceleration	
62898 2768 O/E - fetal heart 180-200	
95881 2762 O/E - fetal heart < 40	
70856 2764 O/E - fetal heart 80-100	
67186 272Z.00 O/E - fetal presentation NOS	
38608 L250.11 Suspect fetal anencephaly	

8846	L250.13	Suspect fetal spina bifida
55152	Q408.00	Intra-amniotic fetal infection
104218	L300000	Obstructed labour due to fetal malposition unspecified
99494	Q455000	Congenital anaemia from fetal blood loss
91908	7F27200	Fetal biometry
95754	Q408z00	Intra-amniotic fetal infection NOS
62629	Q41yy00	Other specified fetal or newborn haemorrhage
95064	Q41y.00	Other fetal and newborn haemorrhage
19575	Q10z.00	Fetal growth retardation NOS
31033	7F03100	Percutaneous insertion of fetal pleuroamniotic shunt
53241	Q214100	Liveborn with fetal hypoxia, unspecified
26707	2766	O/E - fetal heart 120-160
38846	Z271D00	Normal fetal heart baseline pattern
44071	Q479.00	Non-immune hydrops fetalis
64335	L263000	Fetal distress unspecified
23590	L300.00	Obstructed labour due to fetal malposition
102073	Q410z00	Fetal blood loss NOS
53687	2752	O/E - fetal movements seen
42093	5846	U-S scan - fetal maturity
3620	Q214.00	Liveborn with fetal distress, unspecified
63024	2726	O/E -fetal presentation unsure
104845	Q410700	Fetal exsanguination
59679	276Z.00	O/E - fetal heart NOS
100297	L22zz00	Fetal malposition and malpresentation NOS
34777	Q1000	Slow fetal growth and fetal malnutrition
98499	L25z300	Maternal care for suspect fetal abnormal and damage, unspec
96222	L25z400	Maternal care for fetal abnormality and damage, unspecified
41908	Q3z00	Fetal or newborn respiratory problems NOS
28184	Q436z00	Unspecified fetal or neonatal jaundice NOS
11589	7F25100	Fetal heart monitoring in labour
35680	Q423.00	Hydrops fetalis due to isoimmunisation
45439	Lyu3900	[X]Maternal care/oth spcf known or suspected fetal problems
12013	L268000	Reduced fetal movements
19581	Q436.00	Fetal and neonatal jaundice, unspecified
32184	L267500	Other fetal problems
68996	2765	O/E - fetal heart 100-120
62903	2767	O/E - fetal heart 160-180
70845	Z271E00	Sinusoidal pattern of fetal heart
52308	Q211.00	Fetal death due to labour anoxia
101119	2769	O/E - fetal heart > 200
27868	2761	O/E - fetal heart not heard
39218	5858200	Ultrasonic doppler for fetal heart sounds
2437	2751	O/E - no fetal movements
13276	L263.00	Fetal distress - affecting management
49294	L2600	Other fetal and placental problems

41919	5849	U-S scan - fetal presentation
72159	5845	U-S scan - fetal cephalometry
91933	Q410000	Fetal blood loss, unspecified
85992	7F27.00	Non routine obstetric scan for fetal observations
95538	Z271B00	Poor baseline variability in fetal heart rate
36195	L268.00	Other fetal problems
8147	L264.11	Fetal death in utero
94785	9Nk3.00	Seen in fetal medicine clinic
91477	7F03300	Percutaneous insertion of fetal pleural drain
19720	7F25.11	Fetal monitoring
983	Q11	Fetal and neonatal conditions
26710	27200	O/E - fetal presentation
45963	5847	U-S scan - fetal abnormality
46413	L250.12	Suspect fetal hydrocephaly
48801	Q4100	Fetal and neonatal haemorrhage
95875	7F27z00	Non routine obstetric scan for fetal observations NOS
39868	Q420.11	Erythroblastosis fetalis
50201	Q3100	Other fetal and newborn respiratory conditions
55607	Z271900	Fetal heart rate variability
47149	Z271500 Z271F00	Fetal heart deceleration
102894	L260z00	Fetal-maternal haemorrhage NOS
91773	Z271A00	Good baseline variability in fetal heart rate
46502	Q2112	Labour fetal anoxia
46431	7F04100	Percutaneous sampling of fetal blood
9501	7F25000	Fetal heart monitoring NEC
19582	Q493.00	Persistent fetal circulation
7681	27600	O/E - fetal heart heard
62316	L5100	Maternal care for other known or suspected fetal problems
	L263.13	Fetal tachycardia
54004	7F03000	Percutaneous insertion of fetal vesicoamniotic shunt
34132	Q212.11	Fetal distress before labour - liveborn
42322	Q213.00	Liveborn with labour fetal distress
20320	Q213.00 Q210.00	Fetal death due to prelabour anoxia
107794	4H7Z.00	Amniotic fetal cell study NOS
106136	Q410200	Fetal placental blood loss
66335	L260.00	Fetal-maternal haemorrhage
53863	L263z00	Fetal distress NOS
41102	L263500	Lab+del comp fetal ht rate anom wth meconium in amnio fluid
35214	Z271912	FHRV - Fetal heart rate variability
26401	Q214.11	Fetal distress, unspecified when, liveborn
54687	L51X.00	Maternal care/known or suspected fetal problem, unspecifd
37752	6203.00	Fetal maturity: dates = size
55493	6202.00	Fetal movements seen
52857	275Z.00	O/E - fetal movements NOS
110134	Z271G00	Early fetal heart deceleration
110134	22/1000	Early retained t deceleration

13299	Q42X.00	Hydrops fetalis due to other+unspcfd haemolytic disease
100342	PK81.00	Fetal hydantoin syndrome
50913	P7z11	Fetal circulation
51372	Q311z11	Pneumonitis due to fetal aspiration
97985	Z271H00	Late fetal heart deceleration
95649	L263.11	Fetal acidosis
48784	6204.00	
66428	Q026.11	Fetal maturity: dates not=size
		Fetus affected by cord problems
1017	Q034.00	Fetus or neonate affected by caesarean section
97885	7F01000	Fetoscopic examination of fetus and biopsy of fetus
47151	L220.00	Fetus - unstable lie
97186	7F03z00	Therapeutic percutaneous operation on fetus NOS
26685	Q035600	Fetus/neonate affected by other maternal opiates in lab/del
62776	Q037.11	Fetus or neonate affected by hypertonic labour
5538	Q024.00	Fetus or neonate affected by prolapsed cord
91659	Q022.00	Fetus/neonate affected by placental abnormality NEC
105625	Q027.00	Fetus or neonate affected by chorioamnionitis
72118	L257.00	Fetus with damage due to intra-uterine contraceptive device
52007	L255.00	Fetus with drug damage
73892	Q00z.00	Fetus or neonate affected by maternal medical problem NOS
67326	Q04X.00	Fetus+newborn affected/other maternal noxious influences
69257	L25y000	Fetus with other damage NEC, unspecified
71987	Q007A00	Fetus/neonate affect-plac./breast transf hypoglycaemic agent
63290	Q101.00	Fetus small-for-dates with signs of malnutrition
52669	Q031200	Fetus/neonate affect persistent occip-posterior - labour/del
61063	L25zz00	Fetus with damage NOS
99136	Q021200	Fetus/neonate affected by placental damage-amniocentesis
45440	7F00.00	Therapeutic fetoscopic operations on fetus
30979	7N61200	[SO]Fetus
69435	7F02z00	Selective destruction of fetus NOS
61452	7F0z.00	Fetus and gravid uterus operations NOS
46724	Q022200	Fetus or neonate affected by placental insufficiency
105097	L250300	Maternal care for suspected CNS malformation in fetus
52633	Q021111	Fetus affected by placental abruption
36894	Q100.11	Fetus small-for-dates (SFD), without mention of malnutrition
94808	Q017600	Fetus or neonate affected by face presentation before labour
103741	7F2A211	Doppler ultrasound scan of middle cerebral artery of fetus
51177	L500	Maternal care for fetus
106508	7F03600	Percutaneous laser ablation of lesion of fetus
44173	5391	Obstetric X-ray - fetus
38864	L160.00	Papyraceous fetus
48156	Q025000	Fetus or neonate affected by cord round neck
59236	L25z.00	Fetus with damage NOS
53074	L251z00	Fetus with chromosomal abnormality NOS
66699	PK83.00	Fetus and newborn affected by maternal use of alcohol

66574	0 5000	[Mail:: 1/4
66571	Qyu5200	[X]Oth intracranial(nontraumatic)haemorrhages/fetus+newborn
31923	Q021300	Fetus/neonate affected by placental damage-caesarean section
72366	7F02y00	Other specified selective destruction of fetus
62819	7F04z00	Diagnostic percutaneous examination of fetus NOS
72973	Qyu5500	[X]Other haemolytic diseases of fetus and newborn
45653	Q025.00	Fetus or neonate affected by other cord compression
23483	Q023.00	Fetus or neonate affected by placental transfusion syndrome
97240	Q027100	Fetus or neonate affected by amnionitis
72834	Q41z.00	Haemorrhage of fetus and newborn NOS
52950	Q013.00	Fetus or neonate affected by maternal polyhydramnios
41937	5848	U-S scan - multiple fetus
63077	Q00y.00	Fetus or neonate affected by other maternal condition
34695	L2211	Malpresentation of fetus
15495	Q42z.00	Haemolytic disease of fetus/newborn due isoimmunisation NOS
22032	Q100.00	Fetus small-for-dates, without mention of malnutrition
43005	Q200012	Intracranial haemorrhage in fetus or newborn
36559	Q200011	Intracerebral haemorrhage in fetus or newborn
71279	L250000	Fetus with central nervous system malformation unspecified
40870	Q020.00	Fetus or neonate affected by placenta previa
85238	Qyu5F00	[X]Intracranial nontraumatic haemorrhage fetus newborn unsp
106959	Qyu0200	[X]Fetus and newborn affected by other maternal conditions
46283	7F000	Fetus and gravid uterus operations
682	Q4200	Haemolytic disease of fetus/newborn due to isoimmunisation
27334	Q026z00	Fetus or neonate affected by cord problems NOS
50530	7F0y.00	Other specified operations on fetus or gravid uterus
28487	Q13	Fetus and neonate conditions
71910	Q037200	Fetus or neonate affected by hypertonic uterine dysfunction
70737	L25z000	Fetus with damage NOS, unspecified
56697	Q041.00	Fetus and newborn afect by mat use of nutritional chem subs
54726	L251400	Maternal care for chromosomal abnormality in fetus
101599	L253300	Maternal care for damage to fetus from maternal rubella
101893	L251300	Maternal care for suspected chromosomal abnormality in fetus
66526	Q035200	Fetus/neonate affected by mat general anaesthesia - lab/del
99890	Q021400	Fetus/neonate affect by placental damage-surgical induction
44479	Q200511	Intracerebral haematoma in fetus or newborn
47219	Q035300	Fetus/neonate affected by mat epidural anaesth - labour/del
52526	Q200600	Extradural haemorrhage in fetus or newborn
105735	Q007B00	Fetus/neonate affected-plac./breast transfer endocrine agent
21382	27B00	O/E - viable fetus
100241	L25y.00	Fetus with other damage NEC
26840	Q017500	Fetus or neonate affected by unstable lie before labour
95128	9d06.00	Fetus
26631	Q000.00	Fetus or neonate affected by maternal hypertensive disease
73317	L252.00	Fetus with hereditary disease
48583	Q031600	Fetus/neonate affected by disproportion during labour/delive

71627	0017.11	Catura affects of his made mass of talling
71637	Q017.11	Fetus affected by malpresentation
71495	L250z00	Fetus with central nervous system malformation NOS
60841	Q013.11	Fetus affected by hydramnios
55149	Qyu0100	[X]Fetus+newborn affectd/oth medical procedure on mother,NEC
100666	L252z00	Fetus with hereditary disease NOS
66748	Qyu0C00	[X]Fetus+newborn affected/other maternal noxious influences
43958	Q023000	Fetus/neonate affected by twin-to-twin transplacental transf
23617	L2200	Malposition and malpresentation of fetus
68016	L253.11	Fetus with suspected rubella damage via mother
65716	Q011.00	Fetus/neonate affected maternal premature rupture membrane
20721	7F011	Fetus operations
59580	7F012	Fetus & gravid uterus ops
72558	Q016.00	Fetus or neonate affected by maternal death
38043	Q200500	Cerebral haematoma in fetus or newborn
52299	Q007200	Fetus/neonate affected by placental/breast transfer narcotic
68169	Q021.00	Fetus/neonate affect other placental separation/haemorrhage
37055	Q035500	Fetus/neonate affected by maternal pethidine in labour/deliv
16963	7F00000	Fetoscopic blood transfusion of fetus
61596	Q017300	Fetus or neonate affected by oblique lie before labour
55761	Q021500	Fetus or neonate affected by premature placental separation
44644	L250.00	Fetus with central nervous system malformation
58187	Lyu4500	[X]Obstructed labour due to other abnormalities of fetus
108080	Qyu0.00	[X]Fetus/newborn affected by maternal factors+complications
91434	L251.12	Suspect mongol fetus
42661	Q021011	Fetus affected by APH - antepartum haemorrhage
63309	Q037312	Fetus/neonate affected by uterine dysfunction in labour/del
95638	Q101.11	Fetus small-for-dates (SFD) with signs of malnutrition
69015	L251.11	Suspect cystic fibrosis fetus
64430	Q007C00	Fetus/neonate affected-plac./breast transfer addictive drug
59171	Q017400	Fetus or neonate affected by transverse lie before labour
57828	7F03200	Percutaneous blood transfusion of fetus
24701	2754	O/E - fetus very active
72833	Q02z.00	Fetus/neonate affected by abnormalities chorion/amnion NOS
104029	Qyu0B00	[X]Fetus and newborn affected by other maternal medication
70901	Q023100	Fetus/neonate affected by feto-maternal transplacental trans
7103	Q000.11	Fetus affected by maternal toxaemia
109421	Q03y400	Fetus or neonate affected by long labour
20544	Q031611	Fetus/neonate affected-cephalopelvic disproportion lab./del.
99563	27A11	O/E - VE - descent of fetus
50555	Q012.00	Fetus or neonate affected by maternal oligohydramnios
101603	Q010.00	Fetus or neonate affected by maternal incompetent cervix
72348	Q007800	Fetus/neonate affected-plac./breast transfer chemotherapy
30692	L251.00	Fetus with chromosomal abnormality
45856	Q002.00	Fetus or neonate affected by maternal infections
49959	Q005.00	Fetus or neonate affected by maternal injury

93329	Q007400	Fatur / nagnata affacted placental / broast transfer anti-infact
72729	L253.00	Fetus/neonate affected-placental/breast transfer anti-infect  Fetus with viral damage via mother
63648	Q021000	Fetus/neonate affected by antepartum haemorrhage unspecified
96742	Q021000 Q007300	Fetus/neonate affected by affectal breast transfer hallucinogen
68851	Q007300 Q0000	Fetus or neonate affected by maternal medical problems
		Maternal care for CNS malformation in fetus
54690	L250400	
108565	Qyu0700	[X]Fetus+newborn affectd/oth+unspcfd conditns/umbilical cord [X]Digestive system disorders of fetus and newborn
108626	Qyu7.00	
38660	Q300	Fetus and newborn respiratory conditions
42226	Q017200	Fetus or neonate affected by external version before labour
71951	Q037300	Fetus or neonate affected by uterine inertia or dysfunction
71552	L235.00	Large fetus causing disproportion
67572	Q031000	Fetus/neonate affected by mat bony pelvis abn in labour/del
65059	Qyu5.00	[X]Haemorrhagic+haematolog disorders of fetus and newborn
68687	L266300	Suspected macroscopic fetus
52726	Q031500	Fetus/neonate affected by face presentation during labour/de
27447	Q031z00	Fetus/neonate affected by malposition/disproportion NOS
54311	Q0200	Fetus/neonate affected by complic of placenta/cord/membrane
100074	7F01.00	Diagnostic endoscopic examination of fetus using fetoscope
101984	7F03.00	Therapeutic percutaneous operations on fetus
70393	7F04.00	Diagnostic percutaneous examination of fetus
102078	Q027z00	Fetus or neonate affected by chorioamnionitis
58773	Q026.00	Fetus or neonate affected by other specified cord problems
102535	7F00.12	Therapeutic foetoscopic operations on fetus
35777	Q417.00	Intracranial nontraumatic haemorrhage of fetus and newborn
31496	Q007900	Fetus/neonate affected-plac./breast transfer uterine depress
107153	Q007x00	Fetus/neonate affected - placental/breast transfer toxic NEC
40376	PH11.00	Harlequin fetus
56666	L256.00	Fetus with radiation damage
73323	L254.00	Fetus with damage due to other maternal disease
73373	Q001.00	Fetus or neonate affected by maternal renal/urinary disease
96331	L258.00	Fetus with cardiovascular abnormality
105261	Q007500	Fetus/neonate affected-placental/breast transfer immune sera
57651	7F02.00	Selective destruction of fetus
97611	7F03400	Percutaneous insertion of bladder drain to fetus
108731	7F03y00	Other specified therapeutic percutaneous operation on fetus
70074	Q3y00	Other specified respiratory problems in fetus or neonate
69814	Q022000	Fetus or neonate affected by placental dysfunction
69533	L257.12	Fetus with damage due to intra-uterine contraceptive device
95909	Q026400	Fetus or neonate affected by vasa praevia of cord
55410	L251000	Fetus with chromosomal abnormality unspecified
37180	27211	O/E - lie of fetus
69076	Q031300	Fetus/neonate affected by shoulder presentation - labour/del
61640	L252000	Fetus with hereditary disease unspecified
96614	Q035100	Fetus/neonate affected by mat analgesic agent in labour/del

4213 Q021100 Fetus or neonate affected by abruptio placentae 104989 Q018.00 Fetus or neonate affected by maternal gostnatal depression 107939 L25y200 Fetus with other damage NEC NOS 42384 Q031400 Fetus or neonate affected by transverse lie in labour/deliv 107277 Q007100 Fetus/neonate affected by placental/breast transfer alcohol 107296 Q03y200 Fetus or neonate affected by placental/breast transfer alcohol 111265 Qvu6.00 [X]Transitory endoor & metab disord specif to fetus/newborn 111265 Q007600 Fetus or neonate affected by abnormal uterine contractions 107745 Q007600 Fetus/neonate affected by abnormal uterine contractions 107745 Q007600 Fetus/neonate affected by abnormal uterine contractions 107745 Q007600 Fetus/neonate affected by abnormal uterine contractions 107745 Q00700 Fetus/neonate affected by obstructed labour NEC 107947 Q007.00 Fetus/neonate affected by obstructed labour NEC 107947 Q007.00 Fetus/neonate affected by poison transferred placenta/breast 107940 S391.11 Fetus - abdominal X-ray, obst. 107950 Q00700 Fetus or neonate affected by knot in cord 107951 Q00700 Fetus or neonate affected by knot in cord 107951 Q037100 Fetus or neonate affected by hypertonic labour 107075 Q04101 Fetus affected by maternal death 107075 Q04311 Inspecified inevitable miscarriage without complication 107075 Q04311 Inspecified inevitable miscarriage without complication 107076 Q016.11 Fetus affected by maternal death 107075 Q04411 Incomplete inevitable miscarriage without complication 107071 Q045211 Complete inevitable miscarriage without complication 107072 Q045211 Complete inevitable miscarriage without complication 107073 Q045211 Inspecified inevitable miscarriage without complication 107074 Q045211 Complete inevitable miscarriage with OS complication 107074 Q045211 Complete inevitable miscarriage with OS complication 107074 Q045211 Inspecified inevitable miscarriage with OS complication 107074 Q045211 Unspecified inevitable miscarriage with OS complication 107079 Q045211 Unspecified inevitable miscarriage with OS complic		_	
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25883 L071y00 Unspecified incomplete abortion + no mention of complication 99736 L042000 Complete spontaneous abortion + genital tract/pelvic infect	41098	L050x00	Unspecified legal abortion with complication NOS
99736 L042000 Complete spontaneous abortion + genital tract/pelvic infect	106524	L071100	Unspecified incomplete abortion + delayed/excess haemorrhage
	25883	L071y00	Unspecified incomplete abortion + no mention of complication
99590 L052w00 Complete legal abortion with other specified complication	99736	L042000	Complete spontaneous abortion + genital tract/pelvic infect
	99590	L052w00	Complete legal abortion with other specified complication

69190	L052000	Complete legal abortion + genital tract or pelvic infection
3874	L031200	Tubal abortion
56325	L042y00	Complete spontaneous abortion + no mention of complication
99955	L040400	Unspecified spontaneous abortion with metabolic disorder
60771	L0511	Elective abortion
31431	L0513	Therapeutic abortion
95625	L044200	Incomplete inevitable abortion complicated by embolism
40258	L040011	Spontaneous abortion with sepsis
72593	L044x00	Incomplete inevitable abortion with unspecified complication
49467	L0612	Self-induced abortion
71289	L0611	Criminal abortion
25605	L100z00	Threatened abortion NOS
58137	L07z.00	Unspecified abortion NOS
1886	L072.00	Unspecified abortion complete
70643	L070.00	Unspecified abortion
56828	L041w00	Incomp spontaneous abortion + other specified complication
28605	L051z00	Incomplete legal abortion NOS
38415	L050z00	Unspecified legal abortion NOS
97991	L062w00	Complete illegal abortion with other specified complication
2034	L10zz11	Inevitable abortion
56224	L070z00	Unspecified abortion NOS
94404	L061z00	Incomplete illegal abortion NOS
104747	L040x00	Unspecified spontaneous abortion with complication NOS
8173	L043.00	Inevitable abortion unspecified
105470	L040500	Unspecified spontaneous abortion with shock
102090	L08y.00	Failed attempted abortion with no mention of complication
68311	L044y00	Incomplete inevitable abortion with OS complication
9407	6776.11	Abortion counselling
33501	L045.00	Inevitable abortion complete
1737	L0200	Missed abortion
41606	L0600	Illegally induced abortion
39470	L0800	Failed attempted abortion
7413	L041.00	Spontaneous abortion incomplete
1439	L0700	Unspecified abortion
70384	L050y00	Unspecified legal abortion with no mention of complication
1879	L071.00	Unspecified abortion incomplete
68938	L040y00	Unspec spontaneous abortion without mention of complication
49809	L0A00	Failed attempted abortion
41783	L041100	Incomp spontaneous abortion + delayed/excessive haemorrhage
73445	L050000	Unspecified legal abortion + genital tract/pelvic infection
50612	L052y00	Complete legal abortion with no mention of complication
94359	L042w00	Complete spontaneous abortion + other specified complication
68669	L040w00	Unspec spontaneous abortion + other specified complication
58085	L052z00	Complete legal abortion NOS
50903	L0A2.00	Failed medical abortion comp by delayed/excessive haem'ge

33964 L0A4.00         Failed medical abortion, without complication           56822 L050.00         Legal abortion unspecified           51614 L044200         Incomplete inevitable abortion without complication           41118 L082.00         Failed attempted abortion in with complication NOS           39754 L051.11         Medal abortion - incomplete           6730 L051.12         Surgical abortion - incomplete           35184 L071200         Unspecified incomplete abortion NOS           105603 L052500         Complete legal abortion with shock           107159 L08x.00         Failed attempted abortion with complication NOS           7817 L042.00         Spontaneous abortion complete           106491 L050100         Unspecified legal abortion with OS complication           47931 L050000         Unspecified legal abortion with OS complication           47298 L052.00         Legal abortion complete           71529 L060.00         Illegal abortion complete           96418 L062.00         Illegal abortion complete           96561 L062.00         Illegal abortion complete           94138 L062.00         Unspecified spontaneous abortion NOS           47435 L097200         Readmission for retained produc of concept, illegal abortion           72307 L04000         Unspecified spontaneous abortion with other specified complication           893			
S1614 L044200   Incomplete inevitable abortion without complication	33964	L0A4.00	Failed medical abortion, without complication
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39754 L051.11   Medal abortion - incomplete	41118	L08z.00	Failed attempted abortion NOS
6730 L051.12 Surgical abortion - incomplete 35184 L071200 Unspecified incomplete abortion NOS 105603 L052500 Complete legal abortion with shock 107159 L08x.00 Failed attempted abortion with complication NOS 7817 L042.00 Spontaneous abortion complete 106491 L050100 Unspecified legal abortion with OS complication 47931 L050000 Unspecified legal abortion with OS complication 47931 L050000 Unspecified legal abortion with other specified complication 47931 L050000 Unspecified legal abortion with other specified complication 47931 L050000 Unspecified legal abortion with other specified complication 47931 L050000 Unspecified legal abortion with other specified complication 47931 L050000 Unspecified sportaneous abortion NOS 66561 L060.00 Illegal abortion complete 96418 L062.00 Illegal abortion complete 96418 L062.00 Unspecified spontaneous abortion NOS 47435 L097200 Readmission for retained produc of concept, illegal abortion 77307 L040000 Unspecified abortion with no mention of complication 68936 L051100 Incomplete legal abortion with no mention of complication 68936 L051100 Incomplete legal abortion with no mention of complication 68936 L051100 Unspecified illegal abortion with other specified complication 99652 L051w00 Unspecified illegal abortion with other specified complication 59084 L071500 Unspecified illegal abortion with other specified complication 10905 L070w00 Unspecified abortion with other specified complication 10905 L070w00 Unspecified abortion incomplete 59572 L0A3.00 Readmission for retained produc of concept, unspec abortion 7114 L044.00 Incomplete spontaneous abortion NOS 109310 L093300 Readmission for retained produc of concept, unspec abortion 7114 L044.00 Inevitable abortion incomplete 9906 L100300 Failed medical abortion, complicated by embolism 22379 L042.00 Spontaneous abortion NOS  59116 L045x00 Complete inevitable abortion with unspecified complication 1052.11 Medical abortion - complete 9906 L100.00 Threatened abortion 96598 Z22CE00 Number of induced abortion with unspec complication 10121	45806	L070x00	Unspecified abortion with complication NOS
35184 L071200 Unspecified incomplete abortion NOS   105603 L052500 Complete legal abortion with shock   107159 L08x.00 Failed attempted abortion with complication NOS   7817 L042.00 Spontaneous abortion complete   106491 L050100 Unspecified legal abortion + delayed/excessive haemorrhage   66365 L043y00 Unspecified legal abortion with OS complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified abortion complete   66561 L062.00 Illegal abortion complete   96418 L062.00 Illegal abortion complete   96418 L062.00 Unspecified spontaneous abortion NOS   47435 L097200 Readmission for retained produc of concept, illegal abortion   72307 L040000 Unspecified spontaneous abortion + genital tract/pelvic infection   73443 L051y00 Incomplete legal abortion with no mention of complication   168936 L051100 Incomplete legal abortion with other specified complication   96652 L051w00 Incomplete legal abortion with other specified complication   10060w00 Unspecified incomplete abortion with shock   10060w00 Unspecified abortion with other specified complication   10060w00 Unspecified under   10060w00 Unspecified abortion with unspecified complication   10060w00 Unspecified inevitable abortion with unspecified complication   10060w00 Unspecified inevitable abortion with unspecified complication   10060w00 Unspecified inevitable abortion with Unspecified inevitable abortion   10060w00 Unspecified inevitable abortion with	39754	L051.11	Medal abortion - incomplete
105603   L052500   Complete legal abortion with shock   107159   L08x.00   Failed attempted abortion with complication NOS   7817   L042.00   Spontaneous abortion complete   106491   L050100   Unspecified legal abortion + delayed/excessive haemorrhage   66365   L043y00   Unspecified legal abortion with OS complication   47931   L050w00   Unspecified legal abortion with other specified complication   47298   L052.00   Legal abortion complete   1062.00   Illegal abortion unspecified   L062.00   Illegal abortion complete   1062.00   Illegal abortion complete   96418   L062.00   Illegall abortion complete   96418   L062.00   Illegall abortion with or retained produc of concept, illegal abortion   72307   L040200   Unspecified spontaneous abortion NOS   47435   L097200   Readmission for retained produc of concept, illegal abortion   72307   L040000   Unspecified spontaneous abortion + genital tract/pelvic infection   1063936   L051100   Incomplete legal abortion with no mention of complication   1063936   L051100   Incomplete legal abortion with other specified complication   106652   L051w00   Incomplete legal abortion with other specified complication   106652   L060200   Unspecified incomplete abortion with shock   106000   Unspecified abortion with other specified complication   106000   Unspecified abortion with other specified complication   106000   Unspecified abortion with other specified complication   106000   L070w00   Unspecified abortion with other specified complication   106000   L06000   L06000   Unspecified abortion with other specified complication   106000   1060000   10600000000   1060000000000	6730	L051.12	Surgical abortion - incomplete
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66365   L043y00   Unspecified inevitable abortion with OS complication   47931   L050w00   Unspecified legal abortion with other specified complication   47298   L052.00   Legal abortion complete   71529   L060.00   Illegal abortion unspecified   66561   L062.00   Illegal abortion complete   96418   L062.00   Illegal abortion complete   96418   L062.00   Illegally induced abortion NOS   56562   L040z00   Unspecified spontaneous abortion NOS   47435   L097200   Readmission for retained produc of concept, illegal abortion   72307   L040000   Unspec spontaneous abortion + genital tract/pelvic infection   73443   L051y00   Incomplete legal abortion with no mention of complication   68936   L051100   Incomplete legal abortion with other specified complication   59084   L071500   Unspecified incomplete abortion with shock   53229   L060z00   Unspecified illegal abortion NOS   110905   L070w00   Unspecified abortion with other specified complication   29439   L041z00   Incomplete spontaneous abortion NOS   21805   L097300   Readmission for retained produc of concept, unspec abortion   7114   L044.00   Inevitable abortion incomplete   59572   L0A3.00   Failed medical abortion, complicated by embolism   22379   L04z.00   Spontaneous abortion NOS   59116   L045x00   Complete inevitable abortion with unspecified complication   12337   L051.00   Legal abortion incomplete   41379   L052.11   Medical abortion - complete   906   L100.00   Threatened abortion   Complete   906   L100.00   Threatened abortion   Complete   906   L100.00   Unspecified inevitable abortion with unspec complication   96598   222CE00   Number of induced abortion with unspec complication   68511   L045x00   Complete inevitable abortion with unspec complication   101218   L051700   Incomplete medical abortion without complication   101218   L051700   Incomplete inevitable abortion with Unspec spontaneous abortion with Unspec spontaneous abortion without complication   101218   L051700   Incomplete inevitable abortion with OS complication   101218   L0	7817	L042.00	Spontaneous abortion complete
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59116 L045x00 Complete inevitable abortion with unspecified complication  12337 L051.00 Legal abortion incomplete  41379 L052.11 Medical abortion - complete  49849 L052.12 Surgical abortion - complete  906 L100.00 Threatened abortion  96598 Z22CE00 Number of induced abortions  29940 L042z00 Complete spontaneous abortion NOS  94270 L043x00 Unspecified inevitable abortion with unspec complication  68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage  68110 L043z00 Unspecified inevitable abortion without complication  101218 L051700 Incomplete medical abortion  63777 L045y00 Complete inevitable abortion with OS complication	59572	L0A3.00	Failed medical abortion, complicated by embolism
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41379 L052.11 Medical abortion - complete  49849 L052.12 Surgical abortion - complete  906 L100.00 Threatened abortion  96598 Z22CE00 Number of induced abortions  29940 L042z00 Complete spontaneous abortion NOS  94270 L043x00 Unspecified inevitable abortion with unspec complication  68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage  68110 L043z00 Unspecified inevitable abortion without complication  101218 L051700 Incomplete medical abortion  63777 L045y00 Complete inevitable abortion with OS complication	59116	L045x00	Complete inevitable abortion with unspecified complication
49849 L052.12 Surgical abortion - complete  906 L100.00 Threatened abortion  96598 Z22CE00 Number of induced abortions  29940 L042z00 Complete spontaneous abortion NOS  94270 L043x00 Unspecified inevitable abortion with unspec complication  68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage  68110 L043z00 Unspecified inevitable abortion without complication  101218 L051700 Incomplete medical abortion  63777 L045y00 Complete inevitable abortion with OS complication	12337	L051.00	Legal abortion incomplete
906 L100.00 Threatened abortion 96598 Z22CE00 Number of induced abortions 29940 L042z00 Complete spontaneous abortion NOS 94270 L043x00 Unspecified inevitable abortion with unspec complication 68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage 68110 L043z00 Unspecified inevitable abortion without complication 101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	41379	L052.11	Medical abortion - complete
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68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage 68110 L043z00 Unspecified inevitable abortion without complication 101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	29940	L042z00	Complete spontaneous abortion NOS
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101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	68511	L040100	Unspec spontaneous abortion + delayed/excessive haemorrhage
63777 L045y00 Complete inevitable abortion with OS complication	68110	L043z00	Unspecified inevitable abortion without complication
	101218	L051700	Incomplete medical abortion
62659 Lyu0200 [X]Other abortion	63777	L045y00	Complete inevitable abortion with OS complication
	62659	Lyu0200	[X]Other abortion

64692	L141z00	Other threatened labour NOS
92738	ZNA2300	Does perform labouring activities
36756	L386.00	Toxic reaction to local anaesthesia during labour and deliv
49858	Z23G.00	Uterine observation in labour
64206	L313z00	Precipitate labour NOS
109569	L313000	Precipitate labour unspecified
25428	Z246211	Start of labour
23674	L291.11	Failed medical induction of labour
87342	Z244100	Observation of duration of labour
50876	H472.00	Asp pneumonitis due to anaesthesia during labour and deliv
93735	Z246A00	Total duration of labour
71189	Z244400	Late onset of labour
22115	7F10.00	Surgical induction of labour
59789	L14z.00	Early or threatened labour NOS
54167	6322	2nd stage of labour length
44337	L307.00	Failed trial of labour unspecified
32555	L351000	Rupture of uterus during and after labour unspecified
3004	L1411	Premature labour
30782	632Z.00	
		Length of labour NOS
65867	7M35011	Entonox analgesia in labour
23549 66242	L31z.00 Z243400	Abnormality of forces of labour NOS
		Rapid first stage of labour
59445 94809	Z243800 Z256200	First stage of labour problem
99290	Z255800	Prolonged third stage of labour
40448	7F11100	Second stage of labour problem
56873	ZNA2200	Induction of labour using prostaglandins Unable to perform labouring activities
88775	7F11300	Medical induction of labour
	Z255700	
40724		Failure to progress in second stage of labour Other labourer NOS
45057	0Z3Z.00	
95570	L307z00	Failed trial of labour NOS
64732	Q213000	Liveborn with labour abnormal heart beat  Failed mechanical induction of labour
57002 13215	L290.11 63200	
		Length of labour  Relation of onset of labour to due date
48484	Z244500 6323	
49953		3rd stage of labour length
33421	7F11000	Oxytocic induction of labour
35628	L321.00	Prolonged labour unspecified
100252	Z255J00	Pushing involuntarily in labour
98422	Q213100	Liveborn with labour hypoxia
63022	L281500	Prem rupture of membranes onset of labour after 24 hours  Other problems affecting labour NOS
103000	L29yz00	Other problems affecting labour NOS
98003	Z23B400	Contraction of uterus during labour
73319	L302.00	Obstructed labour caused by pelvic soft tissues
55225	L32z.00	Prolonged labour NOS

104405   Z256100	44000		
71720 L350200 Rupture of uterus before labour NOS 60124 Z243411 Rapid progress in first stage of labour 71171 L350000 Rupture of uterus before labour unspecified 106135 Z244200 Long duration of labour 94874 Z244300 Short duration of labour 103154 L321200 Prolonged labour NOS 65243 L141000 Other threatened labour unspecified 60255 L351200 Rupture of uterus during and after labour NOS 99968 L321000 Unspecified prolonged labour, unspecified 3272 7F11200 Other induction of labour NOS 44306 L126600 Eclampsia in labour 48708 Z244411 Postmature labour 95354 Z255300 Progess of second stage of labour 62622 L302000 Obstructed labour NOS, unspecified 108419 L38X.00 Complication of anaesthesia during labour and deliv unsp 40702 Z243600 Slow progress in first stage of labour 37267 L301400 Obstructed labour due to generally contracted pelvis 61611 7F1A400 Trial of labour NEC 22261 Z241100 Onset of labour induced 65900 Z243300 Progress of labour - first stage 32997 6321 Lst stage of labour a first stage 32997 6321 Lst stage of labour a first stage 32997 6321 Lst stage of labour a first stage 32997 6312 Lst stage of labour a first stage 32997 6321 St stage of labour a first stage 32997 6321 St stage of labour and deliv unsp 41010 Intravenous induction of labour 42101 L140200 Threatened premature labour NOS 32877 L350.00 Ruptured uterus before labour 107198 L292000 Unspecified maternal pyrexia during labour, unspecified 97907 L29.00 Other problems affecting labour 24447 7F25.13 Monitoring during labour 24447 7F25.13 Monitoring during labour 32656 638E.00 Obstructed labour caused by pelvic soft tissues unspecified 10466 638E.00 Obstructed labour caused by polycis soft tissues unspecified 104764 L30200 Obstructed labour caused by polycis soft tissues unspecified 25486 L330.00 Obstructed labour caused by polycis soft tissues NOS 48602 L33000 Obstructed labour caused by polycis soft tissues NOS 48602 L32.00 Observation of blood loss in labour			
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32997 6321 1st stage of labour length 29071 7L16000 Intravenous induction of labour 54596 L140200 False labour at or after 37 completed weeks of gestation 42101 L140200 Threatened premature labour NOS 32877 L350.00 Ruptured uterus before labour 107198 L292000 Unspecified maternal pyrexia during labour, unspecified 97907 L2900 Other problems affecting labour 819 L3000 Obstructed labour 24447 7F25.13 Monitoring during labour 73331 Z246900 Duration of second stage of labour 21626 63E1.00 Spontaneous onset of labour 100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified 23548 L301.00 Obstructed labour caused by pelvic soft tissues NOS 48602 L3200 Obstructed labour caused by pelvic soft tissues NOS 48602 L3200 Long labour 36655 Z245.00 Observation of blood loss in labour 99170 Z243.00 Observation of first stage of labour 25112 Z241.00 Labour established 56915 Z249.00 Labour problem	22261	Z241100	Onset of labour induced
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819 L3000 Obstructed labour  24447 7F25.13 Monitoring during labour  73331 Z246900 Duration of second stage of labour  21626 63E1.00 Spontaneous onset of labour  100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified  23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	107198	L292000	Unspecified maternal pyrexia during labour, unspecified
24447 7F25.13 Monitoring during labour  73331 Z246900 Duration of second stage of labour  21626 63E1.00 Spontaneous onset of labour  100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified  23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	97907	L2900	Other problems affecting labour
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23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	21626	63E1.00	Spontaneous onset of labour
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36655 Z245.00 Observation of blood loss in labour 99170 Z243.00 Observation of first stage of labour 25112 Z241.00 Labour established 56915 Z249.00 Labour problem	104746	L302z00	Obstructed labour caused by pelvic soft tissues NOS
99170 Z243.00 Observation of first stage of labour 25112 Z241.00 Labour established 56915 Z249.00 Labour problem	48602	L3200	Long labour
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25112 Z241.00 Labour established 56915 Z249.00 Labour problem	99170	Z243.00	Observation of first stage of labour
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· · · · · · · · · · · · · · · · · · ·	56915	Z249.00	Labour problem
62656   Z255400   Rapid second stage of labour		Z255400	•
94396 L30zz00 Obstructed labour NOS			
29529 L351.00 Rupture of uterus during and after labour			
102136 L292z00 Unspecified maternal pyrexia during labour NOS			

40000	7744 00	
40080	7F11y00	Other specified other induction of labour
46297	Z246311	Onset of labour pains
60333	L301500	Obstructed labour due to pelvic inlet contraction
85226	Lyu4000	[X]Other failed induction of labour
103056	Z244.00	Observation of pattern of labour
64548	L281300	Prem rupture of membranes onset of labour within 24 hours
68319	L351300	Rupture of uterus during/after labour with postnatal problem
62278	L281400	Premature rupture of membranes, labour delayed by therapy
22613	Z248.00	Normal labour
90775	Z246.00	Observation of measures of labour
70150	Z246100	Duration of labour
28928	L140.00	Threatened premature labour
93205	Z255F00	Not pushing well in labour
99660	L300400	Obstructed labour due to face presentation
48274	Q212200	Liveborn with prelabour meconium in liquor
59296	L140000	Threatened premature labour unspecified
9294	L292.00	Maternal pyrexia during labour, unspecified
28830	Z242.00	Labour not established
104206	L29z000	Problems affecting labour NOS unspecified
28700	7F111	Labour operations
30001	L313.00	Precipitate labour
104716	Z255E11	Pushing well in labour
98918	Z247100	Expulsion of IUCD during third stage of labour
62600	L29zz00	Problems affecting labour NOS
364	7F13111	Lower uterine segment caesarean section (LSCS) NEC
13315	14Y0.00	Born by caesarean section
13316	14Y6.00	Born by emergency caesarean section
29155	7F1A000	Caesarean hysterectomy
10049	7F12111	Elective lower uterine segment caesarean section (LSCS)
12118	7F13300	Emergency caesarean section
72513	7F13200	Extraperitoneal caesarean section
15361	14Y2.00	Born by elective caesarean section
8192	Q473.00	Other hypothermia of newborn
3007	Q316.00	Newborn transitory tachypnoea
100616	ZV30100	[V]Singleton, born before admission to hospital
93976	Qyu4200	[X]Other bacterial sepsis of newborn
56336	Q40A100	Sepsis of newborn due to Escherichia coli
66999	Q474111	Newborn environmental hyperthermia
15985	ZV32.00	[V]Twin, mate stillborn
59878	Q463.00	Transitory ileus of newborn
10452	6333	Twins - both live born
93999	6339	Triplets - 3 still born
99418	Q482.00	Central nervous system dysfunction in newborn NOS
41064	Q484.00	Newborn drug reaction and intoxication
56888	Q483000	Newborn feeding problem, unspecified

13304	Q480.12	Seizures in newborn
53052	Q425.00	Late anaemia of newborn due to isoimmunisation
98857	ZV31200	[V]Twin, not hospitalised, mate live born
38852	Q311300	Aspiration of vomit in newborn
104697	G520000	Acute aseptic myocarditis of the newborn
55878	Q494.00	Transient myocardial ischaemia of newborn
108976	6318	Born in hospital
19577	Q417100	Cerebellar (nontraum) and post fossa haemorhage fet newborn
108501	Q484z00	Newborn drug reaction or intoxication NOS
88204	ZV30000	[V]Singleton, born in hospital
98669	Qyu4100	[X]Sepsis/newborn due to other+unspecified staphylococcus
15457	Q482y00	Other newborn abnormal cerebral signs
21839	Q480.11	Fits in newborn
12085	Q404.11	Umbilical stump infection of the newborn
72669	Q452.00	Newborn disseminated intravascular coagulation
20083	Q450.00	Haemorrhagic disease of the newborn
38877	R024z00	[D]Jaundice (not of newborn) NOS
8515	Q31y111	Cyanotic attacks of the newborn
110616	6338	Triplets-1 live+ 2 still born
57128	6336	Triplets - all live born
21468	ZV29100	[V]Newborn receiving special care
14813	Q481.00	Newborn cerebral irritability, unspecified
17482	Q474211	Thermal injury in newborn NEC
47693	Q40W.00	Sepsis of newborn due to other+unspecified streptococci
98366	Qyu4800	[X]Sepsis of newborn due to other+unspecified streptococci
23015	6334	Twins - 1 still + 1 live born
106918	Q44X.00	Trans disorder carbohydrate metab of fet and newborn unsp
57783	Q417000	Intracerebral (nontraumatic) haemorrhage of fet and newborn
9477	Q483.00	Feeding problems in newborn
32703	Q21z.12	Hypoxia in newborn NOS
36071	Q21z.11	Anoxia in newborn NOS
70538	Q475.00	Oedema of newborn unspecified
13300	Q477.00	Newborn breast engorgement
56476	Q482z00	Central nervous system dysfunction in newborn NOS
34502	6335	Twins - both still born
63044	ZV31z00	[V]Twin, mate liveborn, NOS
19579	Q448.00	Newborn late metabolic acidosis
90510	Q44T.00	Transitory metabolic disturbance of newborn, unspecified
64600	Q042.00	Fet newborn affect mat exposure to environml chem subs
89262	Q474z00	Newborn temperature regulation disorder NOS
73978	Qyu3800	[X]Other apnoea of newborn
22031	Q40y200	Septicaemia of newborn
45750	Q4z13	Newborn death
105039	44qW000	Newborn blood spot screening
98938	Qyu6C00	[X]Transitory metabolic disturbance of newborn, unspecified

19585	Q483200	Slow feeding in newborn
55895	Q474200	Hyperthermia in newborn, unspecified
31476	9114.11	FP58 - newborn registration
68065	9114.12	GP58 - newborn registration
104239	Q48F.00	Hypoxic ischaemic encephalopathy of newborn
69413	ZV33000	[V]Twin, unspecified, born in hospital
54589	D400700	Acquired neutropenia in newborn
26871	Q318.00	Primary sleep apnoea of newborn
105139	Qyu3700	[X]Other and unspecified atelectasis of newborn
93859	Qyu8400	[X]Hypothermia of newborn, unspecified
20478	ZV27200	[V]Twins, both live born
42527	Q4211	Isoimmunisation of newborn
98721	P320011	Newborn glaucoma
19947	ZV31.00	[V]Twin, mate live born
97799	Qyu3900	[X]Other specified respiratory conditions of newborn
3613	Q40A.00	Sepsis of the newborn
109480	44qW100	,
	Q46X.00	Completion of newborn blood spot screening card
40296		Intestinal obstruction of newborn, unspecified
39165	Q483100	Newborn regurgitation of food
3615	Q436200	Newborn physiological jaundice NOS
72352	Q474300	Transitory fever of newborn
40867	Q485100	Withdrawal symptoms from therapeutic use of drugs in newborn
61943	Q483400	Rumination in newborn
5173	Q421.11	ABO isoimmunisation of the newborn
5218	6316	Born before arrival
56210	Q311100	Aspiration of liquor or mucus in newborn
109128	Qyu5100	[X]Other umbilical haemorrhages of newborn
108994	13If000	Unborn child is cause for safeguarding concern
43366		Phrenic nerve palsy in newborn
52525	Q462.00	Newborn swallowing maternal blood - haematemesis/melaena
61729	Q482100	Coma in newborn
99425	QyuA400	[X]Disorder of muscle tone of newborn, unspecified
47446	Q474000	Newborn dehydration fever
44256	9Ea4.00	Unborn child at risk physi/ment abnormal serious handicap
61800	Q437z00	Kernicterus of newborn NOS
104301	13lv000	Unborn child subject to child protection plan
34504	Q485.00	Newborn drug withdrawal syndrome
23876	Q487.00	Umbilical polyp of newborn
56909	Q411200	Intraventric (nontraumatic) haemorhage grade 3 fet newborn
41053	Q483z11	Bottle feeding problem in the newborn
95873	Q446600	Disturbances of potassium balance of newborn
52577	Q483500	Underfeeding in newborn
28758	ZV29200	[V]Newborn receiving intensive care
47227	ZV27300	[V]Twins, one live born and one stillborn
38890	ZV27400	[V]Twins, both stillborn

4 4 6 6 6	71/24/22	Date the state of
44238	ZV31000	[V]Twin, born in hospital, mate live born
50017	Q472.00	Newborn cold injury syndrome
101103	Q214200	Liveborn with meconium liquor, unspecified
109703	41G4.00	Newborn blood spot specimen received
98336	Q311113	Aspiration of amniotic fluid in newborn
64262	Q311112	Aspiration of liquor in newborn
36845	Q311111	Aspiration of mucus in newborn
73521	QyuA200	[X]Other disorders of muscle tone of newborn
72705	QyuA000	[X]Oth specified disturbances of cerebral status of newborn
57674	Q411100	Intraventric (nontraumatic) haemorhage grade 2 fet newborn
65792	Q484000	Grey syndrome of newborn
68254	Q474100	Newborn environmental pyrexia
19576	Q31y600	Apnoea of newborn
97418	Q3012	Pulmonary hypoperfusion syndrome of newborn
108359	ZV30200	[V]Singleton, born outside hospital and not hospitalised
101529	ZV32z00	[V]Twin, mate stillborn, NOS
86001	ZV32000	[V]Twin, born in hospital, mate stillborn
95736	Qyu8000	[X]Other hypothermia of newborn
48664	Q444111	Hypocalcaemic tetany in newborn
11509	Q483300	Vomiting in newborn
99244	Q446500	Disturbances of sodium balance of newborn
19578	Q483600	Overfeeding in newborn
39691	Q40A000	Sepsis of newborn due to Staphylococcus aureus
93597	Q311200	Aspiration of blood in newborn
72704	Qyu3000	[X]Other respiratory distress of newborn
94759	Q214000	Liveborn with abnormal heart beat, unspecified
103401	Q466111	Intestinal obstruction in newborn due to faecoliths
104825	Q453.00	Other newborn transient coagulation defect
47317	Q483z00	Newborn feeding problem NOS
53402	Q483z12	Breast feeding problem in the newborn
110294	QyuA100	[X]Other feeding problems of newborn
73036	6337	Triplets -2 live+ 1 still born
59694	Q411000	Intraventric (nontraumatic) haemorhage grade 1 fet newborn
20005	Q480.00	Convulsions in newborn
26682	Q404.00	Omphalitis of the newborn
37044	Q450.11	Vitamin K deficiency of the newborn
25091	Z23AP00	Premature uterine contraction
102737	L112300	Premature separation of placenta with coagulation defect
53829	L281z00	Premature rupture of membranes NOS
424	L281.00	Premature rupture of membranes
108033	Lyu3D00	[X]Other premature separation of placenta
69713	L281000	Premature rupture of membranes unspecified
59452	L264000	Intrauterine death unspecified
4697	Q10z.11	Intrauterine growth retardation
1413	L264.00	Intrauterine death

00500	7504600	Induction to a particular control of the control of
89588	7E0A600	Intrauterine insemination without superovulation donor sperm Intrauterine death NOS
37831	L264z00	
111544	7E0A500	Intrauterine insemination without superovulat partner sperm
48471	PF6D200	Intrauterine amputation of lower limb
91652	7E0A300	Intrauterine insemination superovulation partner sperm
88271	7E0A400	Intrauterine insemination superovulation using donor sperm
36694	Q2111	Intrauterine hypoxia
9542	L265311	Maternal care for intrauterine growth retardation
57522	Q451y11	Neonatal thrombocytopenia due to platelet alloimmunisation
44062	A984000	Neonatal gonococcal conjunctivits
41151	Q406611	Neonatal viral dacryocystitis or conjunctivitis
45852	Q406613	Neonatal conjunctivitis due to virus
18439	44qW.00	Neonatal screening test
63783	Q407y00	Other specified neonatal candida infection
71752	Q457000	Neonatal isoimmune neutropenia
30795	Q492.00	Neonatal hypertension
109861	Q444100	Other neonatal hypocalcaemia
53387	1416.00	H/O: neonatal abstinence syndrome
13297	Q447.00	Neonatal hypoglycaemia
110197	Q44y.00	Other transitory neonatal endocrine and metabolic problem
95112	Q407511	Neonatal monilial septicaemia
31315	Q4111	Neonatal haemorrhage
11629	2FX00	O/E - Umbilical stump - neonatal
99830	Q446y00	Other specified transitory neonatal electrolyte disturbance
52572	Q406300	Neonatal dacryocystitis or conjunctivitis due to E.Coli
67105	Q446300	Transitory neonatal hyperkalaemia
73994	Q406400	Neonatal dacryocystitis/conjunctivitis due to staphylococcus
32722	9kJ00	Neonatal check - enhanced services administration
18991	313K.00	Neonatal hearing test
100646	67AD.00	Neonatal feeding education
37782	F251100	Neonatal myoclonic epilepsy
70045	Q45y.00	Other specified transient neonatal blood disorder
13302	Q407.12	Neonatal thrush
40123	Q407.11	Neonatal monilia
72350	Q451y00	Other specified transient neonatal thrombocytopenia
97518	Q451z00	Transient neonatal thrombocytopenia NOS
48202	Q48A.00	Neonatal cerebral leukomalacia
29743	Q407000	Neonatal candidiasis of mouth
29715	Q406.00	Neonatal dacryocystitis and conjunctivitis
55492	Q447000	latrogenic neonatal hypoglycaemia
69813	Q407z00	Neonatal candida infection NOS
8069	Q433A00	Neonatal jaundice from breast milk inhibitor
3211	Q433200	Breast feeding inhibitors causing neonatal jaundice
7818	Q31y500	Neonatal snuffles
26686	Q485200	Neonatal Abstinence Syndrome

17940	F4F5400	Neonatal nasolacrimal duct obstruction
64472	Q44V.00	Neonatal goitre, not elsewhere classified
32327	Q406712	Neonatal conjunctivitis due to chlamydiae
94578	Q457z00	Transient neonatal neutropenia NOS
46817	Q446200	Transitory neonatal hyponatraemia
93307	Q41y400	Neonatal rectal haemorrhage
72370	J004400	Neonatal enamel hypoplasia
93210	Q446z00	Transitory neonatal electrolyte disturbance NOS
36127	Q406412	Neonatal conjunctivitis due to staphylococcus
26678	Q406411	Neonatal dacryocystitis due to staphylococcus
21472	Q441.00	Neonatal diabetes mellitus
48010	Q443.00	Neonatal thyrotoxicosis
39055	9kJ0.00	Neonatal check - enhanced service completed
15487	Q407100	Neonatal candidiasis of perineum
28292	Q405.00	Neonatal infective mastitis
16482	Q407.00	Neonatal candida infection
2240	Q4z12	Neonatal death
109658	Qyu5300	[X]Other neonatal gastrointestinal haemorrhage
53603	Q48C.00	Neonatal hypotension
17496	Q31y511	Neonatal sniffles
48638	Q433800	Neonatal jaundice with porphyria
28341	Q48y600	Early neonatal death
44358	Q44y000	Transitory neonatal tyrosinaemia
63759	Q406y00	Other specified neonatal dacryocystitis or conjunctivitis
23422	Q406100	Neonatal conjunctivitis
51913	Q41y300	Neonatal melaena
38485	7L13000	Neonatal exchange blood transfusion
35727	Q407200	Neonatal candidiasis of other skin
49769	ZV29000	[V]Normal level of neonatal care
45303	Q433000	Delayed conjugation causing neonatal jaundice, unspecified
55360	Q433z00	Delayed conjugation causing neonatal jaundice NOS
30742	F13z500	Benign neonatal sleep myoclonus
21164	Q48y411	Neonatal 'craniotabes'
56614	Q488.00	Neonatal cerebral ischaemia
104194	2L00	Neonatal examination
38163	Q46y100	Neonatal diarrhoea
45444	Q457.00	Transient neonatal neutropenia
36564	Q48y700	Late neonatal death
45012	Q44U.00	Transitory neonatal endocrine disorder, unspecified
49516	Q414300	Neonatal vaginal haemorrhage
27845	Q446000	Neonatal dehydration
93156	Q433y11	Neonatal jaundice - deficiency enzyme for bilirubin conjug.
65686	Q444.12	Neonatal hypoparathroidism
72347	Q406800	Neonatal dacryocystitis/conjunctivitis-other inclusion body
72494	Q406812	Neonatal conjunctivitis due to other inclusion body

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43576	Q406811	Neonatal dacryocystitis due to other inclusion body
27962	Q311400	Neonatal aspiration of milk and regurgitated food
24792	Q31y611	Neonatal apnoeic attack
106500	Q44A.00	Neonatal hypoparathyroidism
27793	Q406700	Neonatal dacryocystitis or conjunctivitis due to chlamydiae
35507	Q433.00	Other neonatal jaundice - delayed conjugation other cause
58833	Q433700	Neonatal jaundice with congenital hypothyroidism
47909	Q449.00	Neonatal tetany without calcium or magnesium deficiency
71056	Q433y00	Delayed conjugation causing neonatal jaundice OS
37776	Q446100	Transitory neonatal hypernatraemia
91557	Q406z00	Neonatal dacryocystitis or conjunctivitis NOS
23566	Q490.00	Neonatal cardiac failure
35477	Qyu5A00	[X]Neonatal jaundice from other+unspcf hepatocellular damage
28361	Q436100	Transient neonatal hyperbilirubinaemia
48869	Qyu5900	[X]Neonatal jaundice due/other specifd excessive haemolysis
64999	Q406200	Neonatal dacryocystitis
55634	Q442.00	Neonatal myasthenia gravis
18578	Q47y200	Neonatal skin infection
20894	Q444.00	Neonatal hypocalcaemia
37953	Q444z00	Neonatal hypocalcaemia NOS
55689	Q407500	Neonatal candida septicaemia
104225	Q434100	Giant cell hepatitis causing neonatal jaundice
39574	Q406512	Neonatal conjunctivitis due to other bacteria
37045	Q406511	Neonatal dacryocystitis due to other bacteria
68264	Q406600	Neonatal dacryocystitis or conjunctivitis due to virus
54971	Q446.00	Other transitory neonatal electrolyte disturbance
66985	Q433600	Neonatal jaundice with Gilbert's syndrome
39164	Q430000	Neonatal jaundice + glucose-6-phosphate dehydrogenase defic.
99435	N000500	Neonatal lupus erythematosus
6097	Q40y100	Neonatal urinary tract infection
40869	Qyu5B00	[X]Neonatal jaundice from other specified causes
57203	Q445.00	Neonatal hypomagnesaemia
106854	Q451100	Trans neonatal thrombocyto due to idopath matern thrombocyto
54169	Q491.00	Neonatal cardiac dysrhythmia
105058	Qyu3300	[X]Other neonatal aspiration syndromes
109912	Qyu6200	[X]Other neonatal hypocalcaemia
49462	Q41y200	Neonatal haematemesis
110458	Q3200	Neonatal respiratory distress syndrome
13301	Q478.00	Neonatal erythema toxicum
94612	Q433500	Neonatal jaundice with Dubin-Johnson syndrome
7475	ZV29212	[V]Neonatal care on NNU
47540	ZV29211	[V]Neonatal care on ITU
68708	Q406311	Neonatal dacryocystitis due to E.Coli
89700	Q406312	Neonatal conjunctivitis due to E.coli
71441	Q451.00	Transient neonatal thrombocytopenia

63790	Q46y000	Neonatal peritonitis NOS
72975	Qyu6000	[X]Other neonatal hypoglycaemia
96590	67AD.11	Neonatal feeding advice
90526	Q444011	Neonatal cows' milk hypocalcaemia
71986	Q446400	Transitory neonatal hypokalaemia
71532	Q406500	Neonatal dacryocystitis/conjunctivitis due to other bacteria
6883	Q317000	Perinatal bronchopulmonary dysplasia
94812	Qyu3A00	[X]Oth cardiovascular disorders originating/perinatal period
54248	Q415.00	Perinatal adrenal haemorrhage
21461	Q400	Other perinatal conditions
45002	Q412.00	Perinatal subarachnoid haemorrhage
87844	7F2A000	Obstetric umbilical artery Doppler
41899	L240000	Congenital abnormality of uterus affecting obstetric care
25731	Z2700	Obstetric investigative observation
101334	8HQ2000	Referral for obstetric ultrasound scan
32913	Z2800	Obstetric pelvic observation
34677	7F23000	Immed repair obstetric laceration of uterus or cervix uteri
58517	L244012	Rectocele affecting obstetric care
29087	7F25z00	Obstetric monitoring NOS
35601	7F23z00	Immediate repair of obstetric laceration NOS
13700	ZL5D100	Referral to obstetrician
13317	2700	Obstetric examination
110628	L43y.11	Fat embolism - obstetric
34046	7F200	Other obstetric operations
60507	L35z000	Obstetric trauma NOS, unspecified
56727	5392	Obstetric X-ray - placenta
59623	L3500	Other obstetric trauma
52679	L417.00	Obstetric cerebral venous thrombosis
13039	L383.00	Obstetric toxic reaction to local anaesthesia
20907	L244011	Cystocele affecting obstetric care
72298	L355.00	Other obstetric pelvic organ damage
102027	L35yz00	Other obstetric trauma NOS
34210	L240011	Bicornuate uterus affecting obstetric care
85951	7F28z00	Other non routine obstetric scan NOS
34086	7Fz00	Obstetric operations NOS
67257	L35y.00	Other obstetric trauma OS
39036	7F00	Obstetric operations
11268	7F23.12	Immediate suture of obstetric laceration
59059	L433.12	Septic obstetric embolism
14970	7F23100	Immed repair obstetric laceration perineum & anal sphincter
68557	L353000	Obstetric laceration of cervix unspecified
73797	L353z00	Obstetric laceration of cervix NOS
101752	L391000	Obstetric shock unspecified
85244	7F2B.00	Obstetric ultrasound monitoring
95698	7F28y00	Other specified other non routine obstetric scan

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54473	L244000	Other uterine/pelvic floor abnormal affecting obstetric care  Routine obstetric scan NOS
85245	7F26z00	
55573	8HJ7.00	Obstetric Self-referral
88229	7F2A.00	Obstetric Doppler studies
78449	7F28.00	Other non routine obstetric scan
68966	Lyu7.00	[X]Other obstetric conditions, not elsewhere classified
105817	9381	Obstetric coop card issued
93136	L241000	Tumour of uterine body affecting obstetric care
86011	7F26.00	Routine obstetric scan
35558	58412	U-S scan - obstetric, diagn.
55750	L353.00	Obstetric laceration of cervix
65231	9384	Obstetric coop card updated
106154	7F2Ay00	Other specified obstetric Doppler studies
109880	7F2Az11	Obstetric doppler ultrasound NOS
48200	8HMN.00	Listed for Obstetric admission
51929	L354.11	High vaginal laceration - obstetric
34843	L352.11	Inversion of uterus - obstetric
44286	ZL1C200	Under care of obstetrician
4797	5842	U-S obstetric scan normal
49661	7Fy00	Other specified obstetric operations
47156	L357.00	Obstetric trauma causing pelvic haematoma
26698	27Z00	Obstetric examination NOS
104979	L354z00	Obstetric high vaginal laceration NOS
94444	L352z00	Obstetric inversion of uterus NOS
2382	584Z.00	U-S obstetric diagn. scan NOS
71742	L354000	Obstetric high vaginal laceration unspecified
20826	L241011	Uterine fibroid affecting obstetric care
13318	27111	O/E - fundus size - obstetric
94059	7F2Az00	Obstetric Doppler studies NOS
28730	L355.11	Bladder injury - obstetric
27916	L353.12	Tear of cervix - obstetric
86021	7F24.00	Other obstetric operations
22929	8H3C.00	Non-urgent obstetric admission
105146	7F2Ay11	Other specified obstetric doppler ultrasound
69458	L354.00	Obstetric high vaginal laceration
33352	L352.00	Obstetric inversion of uterus
23800	7F23.11	Immediate repair of obstetric tear
29685	5843	U-S obstetric scan abnormal
70607	7F23300	Immediate repair of minor obstetric laceration
24655	8H27.00	Admit obstetric emergency
106067	L246000	Other cervical abnormality affecting obstetric care
53094	7F25y00	Other specified obstetric monitoring
98057	L248000	Vulval abnormality affecting obstetric care
36959	L391.00	Obstetric shock
17911	L416.11	Piles - obstetric
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19800	58400	Ultrasound in obstetric diagn.
62012	7F2z.00	Other obstetric operations NOS
60870	938Z.00	Obstetric coop card NOS
20591	53900	Abdominal obstetric X-ray
23169	539Z.00	Abdominal obstetric X-ray NOS
98639	L43zz00	Obstetric pulmonary embolism NOS
101944	L43z000	Obstetric pulmonary embolism NOS, unspecified
34533	8HV6.00	Private referral to obstetrician
35197	8HLN.00	Obstetric D.V. done
104205	7F2A100	Obstetric uterine artery Doppler
102802	7F2By00	Other specified obstetric ultrasound monitoring
12625	7F25.00	Obstetric monitoring
57891	7F23.00	Immediate repair of obstetric laceration
54582	L35zz00	Obstetric trauma NOS
13965	58413	Ultra-sound scan - obstetric
96343	7F26y00	Other specified routine obstetric scan
100451	7F24100	Obstetric uterine tamponade
27019	5841	U-S obstetric scan requested
87848	7F2Bz00	Obstetric ultrasound monitoring NOS
91278	L357000	Obstetric pelvic haematoma unspecified
36340	93800	Obstetric coop card
19327	L411.11	Perineal obstetric varicose veins
20496	L411.12	Vulval obstetric varicose veins
27650	L384.00	Obstetric spinal and epidural anaesthesia-induced headache
107037	Lyu4C00	[X]Other specified obstetric trauma
43628	L247011	Septate vagina affecting obstetric care
11988	8H57.00	Obstetric referral
11204	27112	O/E - uterus size - obstetric
48311	Z261.00	Observation of gestational sac
43004	Q1300	Light for gestational age
22385	Z22C300	Length of gestation
91915	7M0f400	From 9 weeks to <14 weeks gestational age
50704	Q113.00	Light for gestational age
69250	L169000	Herpes gestationis unspecified
59681	L41z511	Gestational phlebitis NOS
34265	L16C000	Gestational proteinuria
60330	L1900	Complications specific to multiple gestation
34505	62X3.00	Full term gestation - 40 weeks
90884	7M0f200	9 - 13 weeks gestational age
29565	L161.13	Gestational oedema
102435	8CE0000	Gestational diabetes information leaflet given
34484	62X1.00	Gestation = 24 weeks
49663	Z261100	Gestational sac present
7515	L169.00	Herpes gestationis
37201	L16C100	Gestational oedema with proteinuria

50081	L41z512	Gestational phlebopathy NOS
58971	L41z513	Gestational thrombosis NOS
16975	L2111	Gestation - multiple
97682	7M0fy00	Other specified gestational age
95702	7M0f300	Under 9 weeks gestational age
108013	ZC2CB00	Dietary advice for gestational diabetes
26556	62X2.00	Gestation >24 weeks
26555	62X0.00	Gestation <24 weeks
111075	Qyu1200	[X]Other 'heavy for gestational age' infants
86327	7M0f000	Over 20 weeks gestational age
91101	7M0fz00	Gestational age NOS
103954	62X5.00	Length of gestation at time of test
2664	L180900	Gestational diabetes mellitus
95703	7M0f100	14 - 20 weeks gestational age
8446	L180811	Gestational diabetes mellitus
40703	L169z00	Herpes gestationis NOS
43805	Z22C312	Duration of gestation
18810	62X00	Length of gestation
103090	Lyu3000	[X]Other multiple gestation
55352	7M0f.00	Gestational age
21526	L123500	Gestational hypertension

colour	condition	time frame
green	pregnancy	7/12 mths
blue	birth	<21 days postpartum
yellow	abortion/ miscarrage	<5 days

# Appendix 4: Additional CPRD browser pregnancy medcodes

Medcode	Readcode	Readterm
6298	ZV28.00	[V]Antenatal screening
94405	L413100	Antenatal deep vein thrombosis - delivered
99188	L173.00	Maternal tuberculosis in pregnancy/childbirth/puerperium
63781	L410z00	Varicose veins of legs in pregnancy and puerperium NOS
45870	Ly00	Complications of pregnancy, childbirth or the puerperium OS
52106	L412z00	Superficial thrombophlebitis in pregnancy and puerperium NOS
86991	L172000	Other maternal venereal disease, unspec pregnancy/puerperium
4243	L466.00	Galactorrhoea in pregnancy and the puerperium
70092	L460.00	Retracted nipple in pregnancy, the puerperium or lactation

16995	L462.00	Breast engorgement in pregnancy, the puerperium or lactation
59573	L176500	Viral hepatitis comp pregnancy, childbirth & the puerperium
88361	L248.11	Persistent hymen in pregnancy, childbirth and the puerperium
31610	L248.13	Vulval abnormality in pregnancy/childbirth/puerperium
92998	Lyu1.00	[X]Oedema,proteinuria+hypertens in pregnancy,childbrth,puerp
20597	12G4.00	FH: Multiple pregnancy
28446	Lz00	Complications of pregnancy, childbirth and the puerperium NOS
63835	L247z11	Septate vagina in pregnancy/childbirth/puerperium NOS
109550	L416400	Haemorrhoids in pregnancy and puerperium with p/n comp
59276	L032.00	Ovarian pregnancy
65579	L415.00	Other phlebitis and thrombosis in pregnancy and puerperium
93143	L121.00	Renal hypertension in pregnancy/childbirth/puerperium
60154	L2400	Pelvic soft tissue abnormality in pregnancy/childbirth/puerp
71717	L121100	Renal hypertension in pregnancy/childbirth/puerp - delivered
24006	L466100	Galactorrhoea in pregnancy and the puerperium - delivered
44069	L1800	Other medical condition in pregnancy/childbirth/puerperium
47918	L090300	Salpingitis following abortive pregnancy
11152	L00	Complications of pregnancy, childbirth and the puerperium
63644	L181z00	Thyroid dysfunction in pregnancy/childbirth/puerperium NOS
96004	L183z00	Drug dependence during pregnancy/childbirth/puerperium NOS
1771	L182.00	Anaemia during pregnancy, childbirth and the puerperium
46744	L4100	Venous complications of pregnancy and the puerperium
90329	L416z00	Haemorrhoids in pregnancy and the puerperium NOS
41050	Z200	Pregnancy, childbirth and puerperium observations
39550	L244z11	Cystocele in pregnancy, childbirth or the puerperium NOS
64147	L244z12	Rectocele in pregnancy, childbirth or the puerperium NOS
15297	L461400	Cracked nipple in pregnancy/puerperium/lactation + p/n comp
73717	L463300	Other breast disorder in pregnancy/puerperium/lact +a/n comp
98264	L165200	Asymptomatic bacteriuria in pregnancy - del with p/n comp
53310	L1z00	Complications of pregnancy/childbirth/puerperium NOS
103144	L416300	Haemorrhoids in pregnancy and puerperium with a/n comp
46756	L184.00	Mental disorders in pregnancy, childbirth and the puerperium
26023	L411300	VV's of perineum/vulva in pregnancy/puerperium + a/n comp
58140	L173000	Maternal tuberculosis, unspec whether in pregnancy/puerperium
73089	L460000	Retracted nipple in pregnancy/puerperium/lactation unspec
67006	L096400	Pulmonary embolism following abortive pregnancy
65085	L092000	Bladder damage following abortive pregnancy
23840	L090z00	Septicaemia NOS following abortive pregnancy
51359	L090200	Pelvic peritonitis following abortive pregnancy
106097	L09y.00	Other specified complication following abortive pregnancy
12604	L120.00	Benign essential hypertension in pregnancy/childbirth/puerp

103683	8Hki.00	Referral to teenage pregnancy and parenting support service
42091	L411z00	Varicose veins of perineum/vulva in pregnancy/puerperium NOS
96437	L170000	Maternal syphilis, unspec whether in pregnancy or puerperium
20850	L244.11	Cystocele in pregnancy, childbirth and the puerperium
35903	L244.12	Pendulous abdomen in pregnancy, childbirth and the puerperium
39492	L244.13	Rectocele in pregnancy, childbirth and the puerperium
71943	L411000	VV's of perineum/vulva in pregnancy/puerperium unspecified
93583	L096.00	Embolism following abortive pregnancy
34182	1547	H/O: medical termination of pregnancy
70422	L093400	Uraemia following abortive pregnancy
103222	L248z11	Persistent hymen in pregnancy/childbirth/puerperium NOS
97296	L461200	Cracked nipple in pregnancy/puerp/lact - deliv + p/n comp
5541	1544	H/O: ectopic pregnancy
58982	L186.00	Other cardiovascular diseases in pregnancy/childbirth/puerp
62886	L461z00	Cracked nipple in pregnancy, the puerperium or lactation NOS
41473	L183.00	Drug dependence in pregnancy, childbirth and the puerperium
48552	L010.11	Anembryonic pregnancy
33634	L182z00	Anaemia during pregnancy/childbirth/puerperium NOS
64384	L180z00	Diabetes mellitus in pregnancy/childbirth/puerperium NOS
25759	L411.00	VV's of perineum/vulva in pregnancy/puerperium
38556	67A7.00	Pregnancy dental advice
41718	L1y00	Complications of pregnancy/childbirth/puerperium OS
53056	L246.11	Polyp of cervix in pregnancy, childbirth and the puerperium
73557	L188z00	Abnormal GTT in pregnancy/childbirth/puerperium NOS
69012	L466300	Galactorrhoea in pregnancy/puerperium with a/n complication
57131	L462100	Breast engorgement in pregnancy/puerperium/lactation - deliv
64260	L18D.00	Dis nervous syst complic pregnancy, childbirth and puerperium
59493	L090400	Salpingo-oophoritis following abortive pregnancy
104656	Ly200	Sequelae of complication pregnancy childbirth and puerperium
16046	L410.00	Varicose veins of legs in pregnancy and the puerperium
72215	L241z00	Uterine body tumour in pregnancy/childbirth/puerperium NOS
13245	12G2.00	FH: Diabetes in pregnancy
106736	9mK1.00	Pertussis vaccination in pregnancy invitation second letter
66537	L170100	Maternal syphilis during pregnancy - baby delivered
92415	L095.00	Shock following abortive pregnancy
35273	L097.00	Readmission for abortive pregnancy (NHS codes)
20152	L090y00	Sepsis NOS following abortion/ectopic/molar pregnancy
50009	L461100	Cracked nipple in pregnancy/puerperium/lactation - delivered
71162	L16y100	Other pregnancy complication - delivered
102635	8Cg00	Pregnancy termination care
104806	L463100	Other breast disorder in pregnancy/puerperium/lact - deliv

63319	L096.11	Embolus following abortive pregnancy
94527	L16y400	Other pregnancy complication with postnatal complication
9170	L1200	Hypertension complicating pregnancy/childbirth/puerperium
73432	L18z100	Medical condition NOS during pregnancy - baby delivered
104466	L179.00	HIV disease complicating pregnancy childbirth puerperium
47197	L410400	Varicose veins of legs in pregnancy/puerperium + p/n comp
54761	L170.00	Maternal syphilis in pregnancy/childbirth/puerperium
63773	L416100	Haemorrhoids in pregnancy and the puerperium - delivered
101499	L246z12	Stenosis of cervix in pregnancy/childbirth/puerperium NOS
33255	L246z11	Polyp of cervix in pregnancy/childbirth/puerperium NOS
56542	L240z11	Bicornuate uterus in pregnancy, childbirth or puerperium NOS
41016	L247.11	Septate vagina in pregnancy, childbirth and the puerperium
40262	L247.13	Vaginal abnormality in pregnancy/childbirth/puerperium
6478	L188.00	Abnormal glucose tolerance test in pregnancy/childb/puerp
59910	L17z.00	Maternal infect/parasitic dis NOS in pregnancy/childb/puerp
62052	L092500	Uterus damage following abortive pregnancy
97836	L242100	Uterine operation scar in pregnancy/childbirth/puerp - deliv
99889	L16A200	Glycosuria during pregnancy - delivered with p/n comp
98981	L166400	Genitourinary tract infection in pregnancy with p/n comp
59601	L462200	Breast engorgement in pregnancy/puerp/lact - del + p/n comp
16017	L166100	Genitourinary tract infection in pregnancy - delivered
10205	ZG900	Advice relating to pregnancy and fertility
105500	L41yz00	Other venous complication of pregnancy and puerperium NOS
41283	L187.00	Orthopaedic disorders in pregnancy/childbirth/puerperium
63379	L183100	Drug dependence during pregnancy - baby delivered
38871	L246.00	Other cervical abnormality in pregnancy/childbirth/puerp
47686	L181.00	Thyroid dysfunction in pregnancy/childbirth/puerperium
23691	L172.00	Other venereal diseases in pregnancy/childbirth/puerperium
107197	L170z00	Maternal syphilis in pregnancy/childbirth/puerperium NOS
68215	L188100	Abnormal GTT during pregnancy - baby delivered
40723	L12z.00	Unspecified hypertension in pregnancy/childbirth/puerperium
104542	67AH.00	Education about toxoplasmosis precautions during pregnancy
97741	L461000	Cracked nipple in pregnancy/puerperium/lactation unspecified
67035	L123200	Transient hypertension of pregnancy - deliv with p/n comp
64125	L09yz00	Other specified complication NOS follow abortive pregnancy
57640	L242z00	Uterine operation scar in pregnancy/childbirth/puerp NOS
2924	7E06600	Hysterotomy and termination of pregnancy
27952	ZV13900	[V]PH comp of pregnancy, childbirth and the puerperium
53141	L241.00	Tumour of uterine body in pregnancy/childbirth/puerperium
35928	L463000	Other breast disorder in pregnancy/puerperium/lact unspec
40121	12G1.00	FH: Raised B.P. in pregnancy

11359	L180.00	Diabetes mellitus during pregnancy/childbirth/puerperium
33708	L182100	Anaemia during pregnancy - baby delivered
58686	L462000	Breast engorgement in pregnancy/puerperium/lactation unspec
6560	L416.00	Haemorrhoids in pregnancy and the puerperium
98133	9Ea0.00	Risk life pregnant woman greater than if pregnancy terminatd
32950	L03y100	Cornual pregnancy
105006	Q48G.00	Complication termination pregnancy affecting fetus newborn
107708	L415100	Other phlebitis/thrombosis in pregnancy/puerperium - deliv
28225	L240.11	Bicornuate uterus in pregnancy, childbirth and puerperium
49789	L240.12	Double uterus in pregnancy, childbirth and the puerperium
56217	L416000	Haemorrhoids in pregnancy and the puerperium unspecified
99154	L410000	Varicose veins of legs in pregnancy/puerperium unspecified
96724	L162100	Unspecified renal disease in pregnancy - delivered
101260	L10z100	Early pregnancy haemorrhage NOS - delivered
35859	67A5.00	Pregnancy alcohol advice
42598	L175.00	Maternal rubella in pregnancy, childbirth and the puerperium
72437	L248z00	Vulval abnormality in pregnancy/childbirth/puerperium NOS
101272	L462300	Breast engorgement in pregnancy/puerperium/lact + a/n comp
92362	L240z00	Congenital abnormality uterus in pregnancy/childb/puerp NOS
63362	L091100	Defibrination syndrome following abortive pregnancy
73311	L41z.00	Venous complications of pregnancy and puerperium NOS
34639	L180100	Diabetes mellitus during pregnancy - baby delivered
43754	L18z.00	Medical condition NOS in pregnancy/childbirth/puerperium
30948	L150100	Post-term pregnancy - delivered
73647	L188000	Abnormal GTT - unspec whether during pregnancy/puerperium
54681	L189.00	Dis resp syst comp pregnancy, childbirth & puerperium
99365	L460z00	Retracted nipple in pregnancy/puerperium/lactation NOS
64649	L175100	Maternal rubella during pregnancy - baby delivered
28611	L461.00	Cracked nipple in pregnancy, the puerperium or lactation
61144	L463.00	Other breast disorder in pregnancy/puerperium/lactation
50571	L090100	Parametritis following abortive pregnancy
70342	L123400	Transient hypertension of pregnancy + postnatal complication
99422	L187000	Orthopaedic disorder - unsp whether in pregnancy/puerperium
32007	L090.00	Genital or pelvic infection following abortive pregnancy
45242	L241.11	Uterine fibroids in pregnancy, childbirth and the puerperium
7270	12G4.11	FH: Twin pregnancy
38440	L462z00	Breast engorgement in pregnancy/puerperium/lactation NOS
89557	L092300	Cervix damage following abortive pregnancy
41961	L171.00	Maternal gonorrhoea during pregnancy/childbirth/puerperium
50908	L242.00	Uterine scar from previous surgery in pregnancy/childb/puerp
16752	ZV72900	[V]Pregnancy examination and test

14765	L462400	Breast engorgement in pregnancy/puerperium/lact + p/n comp
15633	L182000	Anaemia - unspecified whether in pregnancy or the puerperium
73757	L247z00	Vaginal abnormality in pregnancy/childbirth/puerperium NOS
99389	L460300	Retracted nipple in pregnancy/puerperium/lact with a/n comp
24303	9Ea00	Reason for termination of pregnancy
55757	L16y200	Other pregnancy complication - delivered with postnatal comp
67635	L180000	Diabetes mellitus - unspec whether in pregnancy/puerperium
51639	L241z11	Uterine fibroid in pregnancy/childbirth/puerperium NOS
40978	Z22A700	Surrogate pregnancy
18944	7E07011	Dilation cervix uteri & curettage for termination pregnancy
54107	L10z000	Early pregnancy haemorrhage NOS unspecified
103610	9NkN.00	Seen in early pregnancy unit
70476	L132100	Late pregnancy vomiting - delivered
23456	L412.00	Superficial thrombophlebitis in pregnancy and the puerperium
67377	L463z00	Other breast disorder in pregnancy/puerperium/lactation NOS
94736	L096600	Septic embolism following abortive pregnancy
94353	L175000	Maternal rubella, unspecified whether pregnancy/puerperium
64127	L121000	Renal hypertension in pregnancy/childbirth/puerp unspecified
99594	L415000	Other phlebitis/thrombosis in pregnancy/puerperium unsp
50093	L093000	Oliguria following abortive pregnancy
28312	L466z00	Galactorrhoea in pregnancy and the puerperium NOS
72944	L176.00	Other maternal viral dis. in pregnancy/childbirth/puerperium
49390	L174.00	Maternal malaria in pregnancy, childbirth and the puerperium
97629	L246z00	Other cervical abnormality in pregnancy/childbirth/puerp NOS
57419	L167100	Liver disorder in pregnancy - delivered
73927	L175z00	Maternal rubella in pregnancy/childbirth/puerperium NOS
54089	L466000	Galactorrhoea in pregnancy and the puerperium unspecified
94718	L121z00	Renal hypertension in pregnancy/childbirth/puerperium NOS
105918	L09y400	Urinary tract infection following abortive pregnancy
30326	L090000	Endometritis following abortive pregnancy
38022	Z22CF00	Date symptom of pregnancy first noted
69703	L185100	Congenital cardiovasc dis in pregnancy - baby delivered
69911	L18zz00	Medical condition NOS in pregnancy/childb/puerp NOS
35680	Q423.00	Hydrops fetalis due to isoimmunisation
59296	L140000	Threatened premature labour unspecified

# **BMJ Open**

# Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

Sciences, Bristol Medical School Jones, Tim; University of Bristol; University Hospitals Bristol NHS Foundation Trust, The National Institute for Health Research Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) Macleod, John; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions May, Margaret; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions Secondary Subject Heading HIV/AIDS, Infectious diseases, Public health, Sexual health  REMMARY CARE, HIV & AIDS & INFECTIOUS DISEASES, HIV testing	Journal:	BMJ Open
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CPRD CPRD	Keywords:	PRIMARY CARE, HIV & AIDS < INFECTIOUS DISEASES, HIV testing, CPRD

SCHOLARONE™ Manuscripts Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

M Gompels<sup>1</sup>, S Michael<sup>2</sup>, C F Davies<sup>3</sup>, T Jones<sup>3,4</sup>, John MacLeod<sup>3,5</sup>, M T May<sup>3,5</sup>

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<sup>1</sup> Dr Mark Gompels: Consultant HIV, Department of Immunology, Southmead Hospital, North Bristol NHS Trust, UK. Email: Mark.Gompels@nbt.nhs.uk

<sup>2</sup> Dr Skevi Michael: Senior Teaching Associate, School of Mathematics, University of Bristol, UK. Email: Skevi.Michael@bristol.ac.uk

<sup>3</sup> Dr Charlotte F Davies: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK. Email: <a href="mailto:Charlotte.Davies@bristol.ac.uk">Charlotte.Davies@bristol.ac.uk</a>
<sup>3,4</sup> Dr Timothy Jones: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute for Health Research Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) at

University Hospitals Bristol NHS Foundation Trust, Bristol, UK. Email: Timothy.Jones@bristol.ac.uk <sup>3,5</sup> Professor John Macleod, Professor of Clinical Epidemiology and Primary Care, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions at University of Bristol, Bristol, UK. Email: John.Macleod@bristol.ac.uk

<sup>3,5</sup> Professor Margaret T May, Professor of Medical Statistics, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions at University of Bristol, Bristol, UK. Email: Margaret.may@bristol.ac.uk

# **Corresponding author:**

Dr. Charlotte F. Davies
Department of Population Health Sciences
Bristol Medical School
University of Bristol
Bristol
BS8 2PS
UK Telephone: +44 117 9287209

Fax: +44 117 928 7325

charlotte.davies@bristol.ac.uk

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#### Abstract 300

**Objectives:** To estimate trends in HIV testing, positivity and prevalence in UK Primary Care for 2000-2015 as part of a wider investigation into reasons for late diagnosis of HIV.

**Design:** Retrospective cohort study using the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care.

**Setting:** 404 General Practices in England.

**Participants:** 5,979,598 adults aged  $\geq$  16 years registered between 2000-2015 with 45,093,761 person years of observation.

**Outcomes:** Annual HIV testing rates, proportion of positive tests, and prevalence of HIV-infected people recorded in Primary Care 2000-2015.

Results: HIV testing in Primary Care increased from 2000 to 2010, but then declined. Testing was higher in females than males and in those aged 16-44 years compared with older adults. Rates per 100,000 in women aged 16-44 years were 177 (95% CI 167-188); 1309 (1282-1336); 1789 (1757-1821) and 839 (817-862) in 2000, 2005, 2010 and 2015, respectively, and for non-pregnant women: 22.5 (19-26); 134 (125-143); 262 (250-275); 190 (179, 201). For men aged 16-44 years rates were: 26 (22-29); 107 (100-115); 196 (185-206); 137 (127-146). Over the study period, there were approximately 2 positive results per 1000 HIV tests. Men were eight-fold more likely to test positive than women. The percentage of HIV diagnoses among adults recorded in CPRD may be as low as 55% in London and 67% in the rest of the UK.

**Conclusions**: HIV testing rates in Primary Care peaked in 2010 and subsequently declined. Access to testing was higher for women despite the prevalence of HIV being higher in men.

#### Implications and further research needed:

Opportunities remain in Primary Care for increasing HIV testing to prevent costly late diagnoses and decrease HIV transmission. Interventions to improve targeting of tests and increase adherence to HIV testing guidelines are needed in Primary Care.

# **Article summary**

# Strengths and limitations of this study

- We investigated trends in HIV testing in Primary Care using high quality data from the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care in England.
- CPRD provided anonymised Primary Care records on patients registered between 2000 and 2015 in 404 primary care practices in England which is likely to be representative of the general patient population.
- A limitation of the study is that not all General Practices contribute data to CPRD and therefore we cannot know whether the sample was representative.
- A major strength of the study was the large number of patients, nearly 6 million, which allowed us to contrast trends in HIV testing rates in Primary Care by sex, age, deprivation, rural/urban location and whether in London or not.
- Data were available for 15 years of follow up allowing us to show that HIV testing in Primary Care in England increased between 2000 and 2010, but then declined up to 2015.



#### Introduction

HIV testing in Primary Care is an important component of the strategy to diagnose HIV earlier and reduce transmission of HIV. In 2015 there were an estimated 89,800 (95% credible interval (CrI) 87,100-94,800) people living with HIV (PLWHIV) in England of whom approximately 15% (Crl 12-19%) were unaware of their infection<sup>1</sup>. Of those individuals newly diagnosed with HIV in 2015, 39% were diagnosed late, defined as having a CD4 count below 350 cells/mL within three months of diagnosis.<sup>2</sup> An estimated 1 in 4 of newly diagnosed individuals experienced a missed opportunity for an earlier diagnosis within the healthcare system in the preceding year.<sup>3</sup> Late diagnosis of HIV is associated with increased hospitalisations, decreased life expectancy, 4-7 and higher treatment and care costs to the NHS.8 Importantly, individuals with undiagnosed HIV are likely to be responsible for the majority of transmissions because successfully treated individuals are unlikely to infect others.9 Enhanced HIV testing is considered to be cost-effective in areas with a local diagnosed HIV prevalence that exceeds 2 per 1000 in adults aged 15-59 years.<sup>2,10</sup> In these high HIV prevalence areas recommendations are an HIV test should be routinely offered to all new GP registrations, those undergoing tests for other sexually transmitted infections or having blood tests for any reason, and all new hospital medical admissions.<sup>2,11</sup> However, the majority of people with HIV seek medical care for a related condition several times prior to their HIV diagnosis. 12,13 This may be presenting to general practice or hospital care. But without a high degree of clinical suspicion, the diagnosis is often missed.<sup>14</sup> BHIVA has published a list of indicator diseases which are more commonly found in those who are HIV positive than negative. 15 HIV testing is recommended in these cases, but recent surveys suggest poor adherence to guidelines. 16,17 Given the increase in HIV prevalence over time we would expect that there would be an increase in GP testing for HIV.

Evidence from systematic reviews shows that there are often many barriers to testing experienced by patients and equally by the healthcare providers (HCP).<sup>18-20</sup> Patients presenting with clinical indicator conditions to their General Practitioner (GP) provide a valuable opportunity to diagnose HIV and avoid hospitalisations due to late diagnosis.<sup>21</sup> Research has shown that the majority of patients (up to 75%) newly diagnosed with HIV had been seen in the healthcare system within the 12 months prior to their diagnosis resulting in a missed opportunity to test.<sup>12,14,22</sup> <sup>23</sup>Opt out HIV testing has been shown to be feasible, acceptable and cost effective in eight pilot studies conducted in community, primary and secondary care settings in high prevalence areas across England <sup>24</sup>.

However, no recent evidence is available to know if HIV testing in Primary Care has been increasing and guidelines have been implemented over the country and not just in high risk areas. 16,17

HIV testing in Primary Care has been reported only for the years 1995 to 2005 using data from the UK General Practice Research Database (GPRD).<sup>25</sup> This study showed that testing in Primary Care remained low, but increased steadily. Our main objective was to analyse data from the same source collected between the years 2000 to 2015 to study if HIV testing trends continued to increase in primary care over this extended time period. In addition we investigated differences in HIV testing rates and HIV diagnosis by demographic characteristics and estimated the prevalence of HIV recorded in primary care and compared it with estimates from national surveillance.

# Methods

#### Population and data

We used data from the Clinical Practice Research Datalink (CPRD), previously known as the General Practice Research Database (GPRD), which is derived from computerised clinical records produced during consultations in Primary Care. CPRD provided anonymised Primary Care records on patients registered between 2000 and 2015 in 404 primary care practices in England. Data were available on nearly 6 million people aged over 16 years old who are broadly representative of the adult UK population<sup>26</sup>. General Practitioners (GP) enter data on tests, diagnoses and symptoms using Read codes which are a hierarchical alphanumeric system similar to, but more extensive than International Classification of Disease (ICD) codes. The list of Read codes used to identify (1) HIV tests<sup>25</sup> (2) HIV diagnoses<sup>25</sup> (3) pregnancy/delivery/abortion<sup>27</sup> and (4) additional CPRD browser pregnancy medcodes are listed as appendices 1 to 4, respectively, in the supplementary file. We used individual level quintiles of the Index of Multiple Deprivation, 2015<sup>28</sup>. Practices were classified as rural, urban conurbation, or city/town at lower super output level (a small area geographic boundary of around 1,500 people) in England based on Office for National Statistics classifications, 2011<sup>29</sup>, and as within or outside London. Ethnicity was grouped as Asian, Black African, Black Caribbean, Other, White, and unknown based on linked Hospital Episode Statistics data. We used national surveillance data from Public Health England (PHE) on testing in Primary Care derived from general practices that submit HIV tests to laboratories participating in the Sentinel Surveillance of Blood Borne Virus Testing (SSBBV). These practices cover 35% of England's Primary Care population. HIV testing data is captured from 66% of the Primary Care population in extremely high prevalence areas (>5/1000), 37% within high prevalence areas (>2/1000) and 29% within low prevalence areas. These data exclude any point of care tests (POCTs) carried out by GPs, and tests

carried out as part of antenatal screening. The latest data available on testing rates and positivity were for 2015<sup>30</sup>. Data on HIV prevalence were derived from the HIV and AIDS Reporting System (HARS) and for earlier years the Survey of Prevalent HIV Infections Diagnosed (SOPHID) available from PHE.<sup>2</sup> These data were available up to 2015.

#### **Patient and Public Involvement**

Public and Patients were not involved in the design of this study. Patient data from General Practices were contributed via CPRD and PHE surveillance as stated above.

#### Statistical methods

HIV testing rate, positivity and prevalence of HIV recorded in primary care

Using data from CPRD we estimated the HIV testing rates for each year between 2000-2015, overall and by patient demographics. Testing rates were estimated for males and females, for all ages and grouped by age (16-44,  $\geq$  45 years - chosen to match the study by Evans et al<sup>25</sup>). We also estimated rates separately according to whether the practice was in London or not, and by type of location. For each calendar year, the denominator used to calculate the HIV testing rate was the number of patients who were in the CPRD cohort in that year satisfying the following inclusion criteria:

- (i) they were registered before the 30th June of that year
- (ii) they did not transfer to another practice or die before the 30<sup>th</sup> June of that year
- (iii) they were in the same practice for at least six months
- (iv) they had not previously tested positive for HIV.

The numerator was the number of HIV tests carried out within the relevant year. For each patient in the denominator, the number of tests was calculated, disregarding repeat tests that were within a 3 month period. Any test done or registered more than 90 days after the first recorded positive test was ignored.

As the majority of HIV tests in women are carried out as part of antenatal screening, analyses for females were repeated excluding these tests. We identified women who were pregnant using either delivery dates or Read codes as follows:

- (i) Delivery (birth) dates associated with the females in our data: An HIV test was considered antenatal if it occurred between 3-9 months before the recorded delivery date.
- (ii) Read codes indicating any sign of pregnancy (antenatal): In this case an HIV test was considered antenatal if it occurred within 6 months from the day the Read code was recorded.
- (iii) Read codes associated with the postpartum period: In this case the HIV test was considered antenatal if it occurred within 3-10 months before the corresponding record.

(iv) Read codes indicating any sign of miscarriage or abortion: An HIV test was recorded as ante-natal if it occurred between 3 months prior to 3 months after the corresponding record.

The Read codes associated with pregnancy are listed in the supplementary material. The antenatal HIV tests were excluded from the numerator and the corresponding patients were removed from the denominator for the relateded period as well.

We plotted the trends in HIV testing rates per 100,000 person years for 2000-2015 separately for men and women (including and excluding ante-natal HIV tests) for all adults and restricted to those aged 16-44 years old. In addition, we calculated the annual proportion of HIV tests that were positive for each year to investigate whether testing improved in terms of targeting higher risk individuals during the later years.

For the years 2005, 2010 and 2015, we estimated and tabulated HIV testing rates and incidence rate ratios (IRR) with 95% confidence intervals from Poisson models for males and females separately according to whether practice was in London or not, by age, ethnicity, IMD, and by type of location. To validate our estimates of HIV testing rates recorded in CPRD, we compared them with those from national surveillance data collected by PHE for 2015<sup>30</sup>. Finally, we estimated the prevalence of diagnosed HIV recorded in CPRD and compared this with estimated prevalence from national surveillance data collected by PHE using SOPHID and HARS to determine the proportion of all HIV diagnoses that were recorded in CPRD. Data analysis was performed using STATA version 14.

#### **RESULTS**

Data were available on 5,979,598 distinct patients with 45,093,761 (males 22,155,768; females 22,937,630) person years of observation. The demographic characteristics of included individuals are shown in Table 1. There were less males (48%) than females (52%). Practices (15%) and individuals (16%) in the most deprived quintile of IMD were under-represented in CPRD. The total number of HIV tests recorded in CPRD between 2000 and 2015 was 159,115 of which 357 (0.2%) were positive.

Trends in HIV testing rates 2000-2015 in Primary Care

Figure 1 shows the trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing. The main reason for HIV testing among women of child-bearing age was antenatal screening: the testing rates (per 100,000 person-years) in all women aged 16-44 increased from 177 (95% CI 167-188) in 2000 to 1789 (1757-1821) in 2010 and then decreased to 839 (817, 862) in 2015, with the corresponding figures being 23 (19-26), 262 (250-275) and 190 (179-201) when antenatal testing was excluded. For males the corresponding rates were 26 (22-29), 196 (185-206) and 137 (127-146), which are lower than rates for females even

when antenatal tests are excluded. HIV testing rates in Primary Care peaked in females in 2010 (figure 1) and have declined markedly since then. In men and women not tested ante-natally, HIV testing rates increased until 2012-2013, but have declined since. Similar patterns were seen when data were restricted to those aged 16-44 years only, except that rates were much higher in younger adults compared with those aged 45 years and over (supplementary table 1 all adults, supplementary table 2 for those aged 16-44 years).

Trends in positive HIV diagnosis in Primary Care

Although the number of HIV tests was much higher in women, more men tested positive: 196/20,328 (0.96%) men compared with 161/138,787 (0.12%) women. This was skewed by a very low rate of positive diagnoses in younger females who were screened ante-natally. The smoothed trend in the percentage of tests that were positive for men and women of different ages is shown in figure 2 (plot of raw data is shown in supplementary\_figure). Percentage positive (excluding antenatal tests), was similar in men and women before 2005, but declined more sharply in women thereafter. The percentage of tests that were positive peaked around 2003 and have fallen sharply since 2010, indicating that there is no evidence of better targeting of testing to individuals in later years.

HIV testing rates in practices within and outside London, by age and deprivation index HIV testing rates were two-fold higher in London compared with outside London for both men and women in 2005 and this differential increased in 2010 and 2015. Table 2 and table 3 give the testing rates for years 2005, 2010 and 2015 for males and females (excluding antenatal tests), respectively, stratified by whether the practices were in London or outside London. Data for all years between 2000 and 2015 are given for all adults (supplementary table 1) and for adults aged 16-44 years (supplementary table 2). In more recent years practices outside London but in conurbations had higher rates than those in cities or towns, which in turn had higher rates than rural practices. Although testing rates in men in London practices decreased between 2010 and 2015 overall from 273 (251-295) to 246 (225-266) per 100,000 person-years, there was evidence of a shift in targeting of testing since rates increased in older men from 151 (127-176) to 180 (154-206) per 100,000 person-years and in the most deprived quintile from 415 (351-480) to 565 (487-643) per 100,000 person-years. This targeting effect was also seen among women in London practices, but not in practices outside London. However, in 2015 in London it remained the case that older people were less likely to be tested: incidence rate ratio (IRR) for age ≥ 45 compared with 16-44 years was 0.59 (0.50-0.71) for men and 0.46 (0.38-0.55) in women. The corresponding IRR for outside London were much lower: IRR for age ≥ 45 compared with 16-44 years was 0.37 (0.32-0.43) in men and 0.18 (0.16-0.21) in women. In contrast, by 2015 the most deprived group were 2- or 3-fold more likely to be tested than the least deprived, depending on gender and locality, with IRR for IMD quintile 5 versus 1 increasing markedly from 2005 through to 2015 (table 2 (males) and table 3 (females)).

HIV testing rates and positivity according to national surveillance data

For comparison, national surveillance data for 2015 estimated that General Practices in extremely high prevalence areas defined as greater than 5/1000 population (comparable with "London" in our CPRD study) carried out the highest number of tests per practice population, 860 per 100 000 person years. This was nearly double the coverage rate of General Practices in high diagnosed prevalence areas defined as greater than 2/1000 population (440/100 000), and ten times the coverage rate among General Practices in low diagnosed prevalence areas (90/100 000). The estimates from surveillance were higher than our estimates from CPRD (table 2 and table 3). The proportion of positive tests among those tested in Primary Care estimated from SSBBV surveillance data was 0.4% in 2015<sup>30</sup>. This varied from 0.5% in very high prevalence areas to 0.2% in low prevalence areas and was consistent with our estimated positivity (figure 2).

Prevalence of recorded HIV in CPRD and comparison with national surveillance estimates In 2015 the prevalence of diagnosed HIV recorded in CPRD was 2.8 per 1000 adult patients in London practices and 0.8 per 1000 in the rest of the UK (table 4). According to PHE surveillance, in 2015 HIV prevalence in UK was estimated to be 1.6 per 1000, and excluding undiagnosed HIV was 1.3 per 1000 population.<sup>2</sup> The HIV prevalence in London was estimated to be 4.7 per 1000, substantially higher than the rest of the UK at 1.1 per 1000. The corresponding observed prevalence, that is, excluding undiagnosed cases of HIV, was 4.2 and 0.9 per 1000 population in London and the rest of the UK, respectively.<sup>2</sup> Therefore, only two-thirds of PLWHIV in London were likely known to General Practice whereas in the rest of the UK this increased to nearly 90%. However, these percentages are likely to be over-estimated as children aged <16 years were not included in the CPRD calculations of prevalence but were included in PHE data. If we assume that 20% of the UK population are aged <16 years old and that only 1000 children are living with HIV, then the prevalence of diagnosed HIV among adults could be as high as 5.1 and 1.2 per 1000 in London and outside London, respectively. The estimated percentage of HIV diagnoses among adults recorded in CPRD may be as low as 55% and 67% in London and the rest of the UK, respectively. In General Practices in London, prevalence of HIV recorded in CPRD was higher for males, older individuals,

Black African ethnicity and most deprived quintile (table 4) with a similar pattern in practices outside London except that prevalence did not vary by age.

#### Discussion

Statement of principal findings

Our analysis of CPRD data on GP consultations recorded on approximately 6 million people living in the UK over a 15-year period, shows that the initial rise in HIV testing seen in Primary Care between 2000 and 2010 reversed with a significant drop in the testing rates for HIV in primary care from 2010. This is an unexpected finding as throughout this period prevalence of HIV has been increasing which should have engendered higher rates of testing in Primary Care, given the NICE recommendations on testing, which would increase with increased prevalence <sup>31,32</sup>. HIV testing rates in Primary Care were higher in women than men throughout the study period, even when tests for antenatal screening were excluded, despite HIV prevalence being higher in men. This resulted in men being eight-fold more likely to test positive than women in this setting. Over the 15-year period of the study, there were approximately 2 positive results per 1000 HIV tests. We did not find evidence of better targeting of HIV testing to individuals in more recent years as the percentage of tests that were positive peaked around 2003. Many individuals at high risk of HIV infection may choose to test in settings other than General Practice, such as sexual health clinics, which might make it harder to target HIV testing among the population attending Primary Care.

The pattern of HIV testing has also changed over time. Testing was two-fold higher in London then elsewhere and has increased in the groups and areas of high deprivation within London. This is reassuring as it also reflects the higher prevalence of HIV in these areas and indicates that HIV testing has become more geographically targeted. Overall, testing rates were higher in urban conurbations and cities than in rural areas reflecting the national prevalence figures<sup>2</sup>. Younger people were more likely to be tested than those aged 45 years and over, which reflects the incidence pattern for HIV. However, our data shows an increasing trend in the rate of testing among the older age group in London, but not elsewhere, which may have been driven by the recognition that among those with HIV infection the proportion diagnosed late is higher in older age groups<sup>33</sup>.

In 2015, the prevalence of HIV recorded in CPRD was over three-fold higher in London than elsewhere, but overall was substantially lower than the prevalence of diagnosed HIV estimated from PHE surveillance<sup>2</sup>. This may be due to HIV-positive individuals not using primary care or to non-disclosure of their HIV status to their GP, not recording of the diagnosis on GP systems, or to CPRD

not including sufficient practices with high HIV prevalence. CPRD is broadly representative of Primary Care in the UK, but the UK HIV epidemic is concentrated in cities with approximately half of HIV-positive individuals living in London<sup>2</sup>. The estimated percentage of HIV diagnoses among adults that were recorded in CPRD increased between 2005 and 2015 but was still substantially lower in London than elsewhere. This trend may reflect the ageing HIV population's greater requirement of primary care services, decrease in stigma of disclosure, or better transfer and recording in Primary Care of positive results of HIV tests carried out in other settings in later years.

# Strengths and weaknesses of the study

This study is very large with data from nearly six million patients followed over fifteen years with detailed primary care records. This detailed coverage enabled us to accurately measure HIV testing rates according to the important factors of deprivation, urbanisation, gender, ethnicity and age. Records were collected prospectively and electronically over a significant time period; therefore, we were able to show clearly the trends that have occurred. Our analysis and the data collection may be biased by several factors. The CPRD only includes a sample of general practices, but this is broadly representative of Primary Care in the UK, and, given the large numbers, this is a sufficient sample size for estimates of testing rates to be accurate. We have shown the CPRD slightly under represents deprivation, in both individuals and GP practices. Whilst this may be the case, given the very large sample size, we think that we can still draw valuable conclusions from this data. This study can only show the rates of testing in Primary Care. What is clear, given the number of HIV positive patients, is that many patients will have been diagnosed in other healthcare settings, for example, PHE estimated that in England during 2016 5.9% and 7.3% of new diagnoses in men and women, respectively, were made in Primary Care<sup>34</sup>. This implies that estimates of the prevalence of diagnosed HIV based on diagnoses recorded in CPRD will be under-estimates for the UK which we have shown by comparing with surveillance data from PHE.

Strengths and weaknesses in relation to other studies, discussing important differences in results

HIV testing in Primary Care in the Netherlands also decreased between 2010-2015 despite similar guidelines encouraging more pro-active screening for HIV<sup>35</sup>. Although HIV testing in Primary Care has declined, the rates of late diagnosis (CD4 count less than 350 cells/mL) have also declined from 50% in 2010 to 39% in 2015<sup>36</sup>, indicating a discordancy between the testing in Primary Care and diagnosis. This indicates that increased testing has likely occurred in other settings. Earlier diagnosis may be due to better detection in secondary care, either from screening or testing those with indicator conditions, or through other routes such as sexual health clinics, insurance requests or specialist testing services. Moreover, if testing has become better targeted in Primary Care and

incidence in the consulting population is decreasing then even without an increase in testing, those who get tested may be tested earlier in the course of HIV infection leading to reduced rates of late diagnoses. However, we have shown a significant decline in HIV testing in Primary Care since the previous analysis by Evans *et al* <sup>25</sup> on testing up to 2005, and therefore we can look at increased testing in primary care as an option to improve early HIV detection rates.

Meaning of the study: possible explanations and implications for clinicians and policymakers

Since 2015, UK and international treatment guidelines<sup>37</sup> for those diagnosed with HIV recommend immediate treatment with antiretroviral therapy (ART) due to findings from the START trial <sup>38</sup>. This change, together with pre-exposure prophylaxis (PrEP), has resulted in a decline in HIV infection rates for the last 2 years<sup>34</sup>. Nevertheless, there are still opportunities for diagnosing HIV earlier in Primary Care whilst testing rates remain very low. Current UK testing guidelines<sup>34</sup> recommend people attending General Practices in areas of high HIV prevalence should be offered an HIV test at registration or when having a blood test if they have not had an HIV test in the past 12 months. People newly diagnosed with an HIV indicator condition should also be offered an HIV test. The aim is to diagnose HIV earlier as late diagnosis of HIV is associated with increased morbidity and mortality.<sup>7,39,40</sup> There are benefits for diagnosing HIV earlier both for the individual in terms of quality of life and life expectancy<sup>6</sup> and a wider societal benefit of reduced transmission and lower NHS treatment costs.

# Unanswered questions and future research

Although it is a public health imperative, and target, to increase HIV testing and diagnosis, it is unclear how this could be implemented in Primary Care. A literature review undertaken of public and Health Care Professional (HCP) attitudes towards HIV testing in the UK showed that a proactive offer of an HIV test by the HCP was an important factor which could help increase testing rates.<sup>20</sup> Reasons for low levels of HIV testing by the HCP include fear/concern of offending patients, inadequate knowledge/training on HIV, low awareness of current testing guidelines, underestimation of patient risk, insufficient time, competing priorities, perceived burdensome consent process and pre-test discussion.<sup>18-20,41</sup> Studies indicate a need for education and training on HIV testing for HCP in Primary Care to overcome these barriers to testing.<sup>16,42</sup> Adequate interventions are needed to address these barriers so individuals can receive a timely HIV test and with it the important treatment benefits and care if found to be HIV positive. Another literature review has provided evidence that HIV indicator conditions have the potential to be used more

effectively as triggers for earlier HIV testing<sup>43</sup>. Opt-out testing can facilitate increased HIV testing as has been evident from a trial in emergency care setting<sup>44</sup>. When blood tests are carried out for any reason in primary care, there could also be an opt-out HIV test. Computer prompts based on risk algorithms are another strategy to support HIV testing<sup>45-49</sup> which could be based on electronic health records such as those in CPRD.

Although the results shown here are for a UK based population the methodology may be applicable to other healthcare systems. They provide accurate testing rates and detection rates in Primary Care which are measures of HIV testing that can be used for international comparisons. A key element for preventing transmission and late diagnosis of HIV is testing in Primary Care, based on a screening strategy or indicator conditions<sup>50</sup>. These data inform us of the current situation on testing and will be useful in planning and evaluating interventions to improve this.

The data on the discrepancy between PHE and CPRD prevalence of HIV positive status being recorded is another finding of importance for planning. New testing strategies such as home test and rapid testing outside of standard health care settings may contribute to the decrease in testing in Primary Care. These need to have a strategy in their delivery to feed back to Primary Care to maximise the benefits to patients and their health networks.

# **Conclusions**

HIV testing rates have declined in Primary Care in all age groups, although there has been a fall in late presentation. HIV testing rates are highest in London, and higher in urban areas than rural areas. Increased testing would likely increase the number of positive tests and help prevent late diagnosis. Further interventions to increase selectivity of testing (positive cases per test) may be required, either at the individual level using risk factors and HIV indicator conditions or at the practice level using knowledge of local HIV prevalence.

# **Contributor and guarantor information**

MG and MM planned the research study and were responsible for study design. JM and TJ advised on study design. CD applied for ethics approval and did the literature search. TJ and CD obtained data from CPRD and helped with coding and extracting data. SM was responsible for statistical analyses, tables and graphs. MM, SM and MG wrote the first draft of the paper. All authors contributed to writing and revising the paper and agreed to submission. MM acts as guarantor for the conduct of the study, had full access to the data and made decision to publish.

#### **Ethics approval**

The protocol was submitted to and approved by the independent scientific advisory committee for the CPRD (protocol ISAC number 16\_172A). The study was approved by the South West, Frenchay, Research Ethics Committee on the 19/09/2016 (REC reference 16/SW/0286).

#### **Transparency statement**

Margaret May affirms that the manuscript is an honest, accurate and transparent account of the study, and that no important aspects of the study have been omitted. The sponsor had no role in research or decision to publish.

# **Competing Interests statement**

No authors have any competing interests.

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#### Data sharing

No additional data is available as use of the data was licensed by CPRD and therefore cannot be shared further.

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Table 1: Patient and practice demographics

Demographic Variable	Group	Frequency	Percentage (%)
Gender	Males	2,871,884	48.03
	Females	3,107,562	51.97
	Other/Unknown	152	0.00
Age (in 2015)	16-44	2,684,443	44.89
	>44	3,295,155	55.11
Ethnicity	Asian	147,295	2.46
	Black African	45,632	0.76
	Black Caribbean	28,558	0.48
	Other	118,934	1.99
	White	3,328,189	55.66
	Unknown	2,310,990	38.65

Region	Outside London	4,693,116	78.49
	London	1,129,924	18.90
	Unknown	156,558	2.62
Urban/Rural	Urban(Conurbation)	2,134,497	35.70
	Urban(City/Town)	2,991,079	50.02
	Rural	697,452	11.66
	Unknown	156,558	2.62
Patient IMD (2015)	Quintile 1	1,285,213	21.49
1=least deprived,, 5=most deprived	Quintiles 2,3,4	3,564,936	59.62
	Quintile 5	964,853	16.14
	Unknown	164,596	2.75
Practice IMD (2015)	Quintile 1	1,249,293	20.89
1=least deprived,, 5=most deprived	Quintiles 2,3,4	3,702,313	61.92
	Quintile 5	871,434	14.57
	Unknown	156 558	2 62

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Table 2: Testing rates (per 100,000 person years) for **males** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015.

				London					
<u> </u>		2005			2010		24	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Raŧe (95% CI)	IRR (95% CI)	p-valu
Overall	133 (117, 148)	-	-	273 (251, 295)	-	-	24&(225, 266)	-	-
Age							em		
16-44	175 (151, 198)	1	10.0004	366 (333, 400)	1	.0.0004	30 <b>8</b> (272, 336)	1	-0.000
>=45	75 (56, 93)	0.43 (0.33, 0.56)	<0.0001	151 (127, 176)	0.41 (0.34, 0.50)	<0.0001	180 (154, 206)	0.59 (0.50, 0.71)	<0.000
Ethnicity							019		
White	102 (80, 125)	1		240 (206, 275)	1		222 (187, 256)	1	
Asian	152 (73, 232)	1.49 (0.85, 2.62)	.0.004	329 (220, 438)	1.37 (0.95, 1.96)	0.0004	16 (88, 247)	0.76 (0.47, 1.22)	
Black African	669 (361, 977)	6.53 (3.93, 10.85)	<0.0001	1227 (849, 1605)	5.10 (3.63, 7.18)	<0.0001	919 602, 1236)	4.15 (2.84, 6.06)	<0.000
Black Caribbean	216 (432, 389)	2.11 (0.92, 4.82)		361 (148, 574)	1.50 (0.82, 2.76)		528(267, 779)	2.36 (1.42, 3.95)	
Patient IMD (2015)*							ed		
Quintile 1	160 (119, 202)	1		207 (159, 254)	1			1	
Quintiles 2,3,4	120 (102, 139)	0.75 (0.56, 1.01)	0.0912	252 (226, 279)	1.22 (0.95, 1.57)	< 0.0001	17∄(155, 198)	0.88 (0.68, 1.14)	<0.000
Quintile 5	155 (114, 195)	0.96 (0.67, 1.40)		415 (351, 480)	2.01 (1.53, 2.65)		565 (487, 643)	2.82 (2.16, 3.68)	
	, , ,	, , ,		Outside Lond			<del>                                     </del>	, , ,	
		2005			2010		D TO	2015	
	Rate (95% CI)	IRR (95% C.I.)	p-value	Rate (95% CI)	IRR (95% C.I.)	p-value	Race (95% CI)	IRR (95% C.I.)	p-valu
Overall	65 (60, 70)	-	-	106 (100, 112)		-	64 (60, 69)	-	-
Age							n.br		
16-44	95 (87, 103)	1	10.0004	161 (150, 172)	1	.0.0004	100 (91, 109)	1	-0.000
>=45	34 (29, 39)	0.36 (0.30, 0.42)	<0.0001	54 (48, 60)	0.34 (0.30, 0.38)	<0.0001	3 (32, 42)	0.37 (0.32, 0.43)	<0.000
Ethnicity							0		
White	63 (57, 69)	1		100 (92, 108)	1		63 (57, 70)	1	
Asian	159 (89, 229)	2.52 (1.61, 3.94)	.0.004	336 (245, 427)	3.36 (2.55, 4.44)		200 (135, 266)	3.16 (2.25, 4.45)	
Black African	579 (221, 937)	9.17 (4.90, 17.16)	<0.0001	1321 (859, 1783)	13.24 (9.23, 18.97)		584 (289, 878)	9.22 (5.51, 15.44)	
Black Caribbean	185 (37, 366)	2.93 (1.09, 7.83)		506 (156, 856)	5.06 (2.86, 8.96)		202 (25, 379)	3.19 (1.32, 7.70)	
Patient IMD (2015)*		, , ,		, , ,			20.	, , ,	
Quintile 1	60 (51, 69)	1		98 (87, 110)	1		6 <del>1</del> (52, 70)	1	
Quintiles 2,3,4	60 (54, 66)	1.0 (0.84, 1.20)	0.0002	94 (87, 101)	0.96 (0.83, 1.10)	< 0.0001	5 <del>§</del> (48, 59)	0.87 (0.73, 1.04)	<0.000
Quintile 5	89 (75, 104)	1.49 (1.20, 1.86)		163 (145, 182)	1.66 (1.41, 1.96)		16 (99, 131)	1.89 (1.55, 2.31)	
Urban/Rural class	- ( -,,	- ( -,,		( -,)	,,		<u>8</u>	(,,	
Conurbation	65 (55, 76)	1		144 (129, 159)	1		9 <del>1d</del> (79, 102)	1	
City/Town	69 (63, 75)	1.05 (0.88, 1.26)	0.0045	100 (93, 107)	0.70 (0.61, 0.79)	<0.0001	69 (54, 65)	0.66 (0.56, 0.77)	<0.000
//	47 (37, 58)	0.72 (0.55, 0.95)		75 (62, 88)	0.52 (0.43, 0.64)		49 (39, 60)	0.55 (0.43, 0.70)	2.200

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Table 3: Testing rates (per 100000 person years) for **females** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015 (antenatal testing excluded)

excluded)							on 2		
		2005		Lond			4	2045	
	D-+- (050/ CI)	2005		Data (05% CI)	2010		Z Rate <b>£</b> 95% CI)	2015	
O	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	1 (0 -	IRR (95% CI)	p-value
Overall	139 (123, 155)	-	-	309 (285, 332)	-	-	243 ( <b>秦</b> 3, 264)	-	-
Age	24.6./4.00, 2.42\	4		470 (440 547)	4		227 (30 200)	4	
16-44	216 (189, 242)	1	< 0.0001	479 (440, 517)	1	< 0.0001	327 (295, 360)	1	< 0.0002
>=45	39 (26, 52)	0.18 (0.13, 0.26)		93 (74, 112)	0.19 (0.16, 0.24)		150 (127, 173)	0.46 (0.38, 0.55)	
Ethnicity	100 (100 110)			2=0 (200 001)	_		D	_	
White	120 (100, 140)	1		270 (239, 301)	1		170 (244, 195)	1	
Asian	199 (117, 280)	1.65 (1.09,2.51)	< 0.0001	261 (183, 339)	0.97 (0.70, 1.33)	< 0.0001	190 (256, 254)	1.12 (0.78, 1.62)	< 0.0001
Black African	415 (234, 596)	3.46 (2.21 5.43)		825 (602, 1048)	3.06 (2.29, 4.08)		728 (\$\frac{1}{20}\)7, 929)	4.30 (3.13, 5.87)	
Black Caribbean	248 (96, 400)	2.06 (1.15, 3.72)		438 (260, 617)	1.63 (1.06, 2.48)		399 (221, 578)	2.35 (1.50, 3.70)	
Patient IMD (2015)*							Q		
Quintile 1	153 (112, 194)	1		172 (130, 215)	1		156 (125, 197)	1	
Quintiles 2,3,4	125 (106, 143)	0.82 (0.60, 1.10)	0.0278	284 (258, 311)	1.65 (1.27, 2.14)	<0.0001	195 (‡73, 218)	1.25 (0.95, 1.66)	< 0.0002
Quintile 5	183 (138, 227)	1.19 (0.84, 1.71)		539 (463, 615)	3.13 (2.37, 4.14)		520 (448, 592)	3.33 (2.50, 4.46)	
				Outside	London		<u></u>		
		2005			2010		ope	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Rate 95% CI)	IRR (95% CI)	p-value
Overall	67 (62, 71)	-	-	117 (111, 123)	<b>/</b> (-),	-	83 (38, 89)	-	-
Age							j.c		
16-44	118 (108, 127)	1	<0.0001	216 (204, 229)	1	<0.0001	160 ( <mark>\$</mark> 48, 171)	1	<0.000
>=45	21 (17,24)	0.18 (0.15, 0.21)	<0.0001	34 (29, 38)	0.16 (0.14, 0.18)	<0.0001	29 (25, 33)	0.18 (0.16, 0.21)	<0.0001
Ethnicity							n Þ		
White	67 (61, 72)	1		117 (110, 125)	1		77 🔄 1, 83)	1	
Asian	188 (123, 252)	2.82 (2.01, 3.95)	10.0001	357 (284, 430)	3.04 (2.46, 3.77)	<0.0001	207 (155, 259)	2.69 (2.07, 3.50)	<0.0002
Black African	515 (270, )	7.33 (4.77, 12.53)	<0.0001	829 (563, 1094)	7.07 (5.13,9.73)	<0.0001	432 (249, 616)	5.63 (3.71, 8.53)	<0.000.
Black Caribbean	235 (61, 409)	3.53 (1.68, 7.44)		778 (468, 1087)	6.63 (4.49, 9.79)		489 (237, 721)	6.36 (3.93, 10.30)	
Patient IMD (2015)*							4		
Quintile 1	64 (54, 73)	1		95 (84, 106)	1		71 (61, 81)	1	
Quintiles 2,3,4	61 (55, 67)	0.97 (0.81, 1.15)	0.0001	95 (88, 102)	1.00 (0.87, 1.15)	< 0.0001	72 (5, 78)	1.01 (0.86, 1.19)	< 0.000
Quintile 5	92 (77, 107)	1.45 (1.17, 1.79)		241 (218, 265)	2.54 (2.19, 2.95)		152 (234, 170)	2.15 (1.80, 2.57)	
Urban/Rural class	. , ,	, , ,			, , -,		֓֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	, , ,	
Conurbation	54 (45, 64)	1		165 (148, 181)	1		120 ( 6, 133)	1	
City/Town	72 (66, 78)	1.33 (1.10, 1.60)	0.0078	108 (101, 116)	0.66 (0.59, 0.74)	< 0.0001	77 (20, 83)	0.64 (0.56, 0.74)	< 0.000
Rural	62 (50, 74)	1.15 (0.89, 1.47)		85 (71, 99)	0.52 (0.43, 0.62)		60 (48, 72)	0.50 (0.40, 0.62)	
*1-least deprived 5-		1.13 (0.03, 1.47)		05 (71, 55)	0.52 (0.75, 0.02)		00 (30, 72)	0.50 (0.40, 0.02)	

<sup>\*1=</sup>least deprived - 5=most deprived

Table 4: Prevalence (with 95% CI) of diagnosed HIV recorded in CPRD (per 100,000 persons) by gender, age, ethnicity and patient IMD, for London and outside London.

	Lor	ndon	
		Prevalence (95% CI)	
	2005	2010	2015
All	140 (129, 151)	230 (216, 244)	282 (267, 297)
Gender			
Males	191 (172, 209)	294 (271, 317)	369 (344, 395)
Females	91 (78, 103)	170 (153, 187)	199 (181, 217
Age			
16-44	168 (152, 184)	234 (215, 253)	229 (210, 249)
>44	103 (88, 117)	226 (205, 247)	341 (316, 365)
Ethnicity			
White	127 (112, 143)	183 (164, 202)	224 (202, 246)
Asian	45 (17, 72)	84 (50, 119)	96 (60, 131)
Black African	1465 (1205, 1726)	2350 (2055, 2646)	2597 (2294, 2899)
Black Caribbean	195 (97, 294)	431 (291, 572)	538 (381, 695)
Patient IMD (2015)			
Quantile 1	32 (19, 45)	86 (65, 107)	121 (96, 146)
Quantiles 2,3,4	136 (122, 149)	212 (195, 228)	256 (238, 274)
Quantile 5	268 (230, 306)	444 (397, 491)	544 (492, 596)
	Outside	e London	
		Prevalence (95% CI)	
	2005	2010	2015
All	38 (36, 41)	64 (61, 67)	81 (77, 85)
Gender			
Males	50 (46, 54)	81 (76, 86)	105 (99, 110)
Females	26 (23, 29)	48 (44, 52)	58 (54, 62)
Age			
16-44	55 (51, 59)	78 (72, 83)	82 (76, 87)
>44	22 (19, 25)	52 (48, 56)	80 (76, 85)
Ethnicity			
White	29 (26, 32)	46 (43, 50)	60 (56, 64)
Asian	37 (16, 59)	40 (21, 59)	55 (34, 76)
Black African	2537 (2110, 2964)	3663 (3236, 4091)	3933 (3514, 4353)
Black Caribbean	135 (35, 236)	347 (195, 499)	484 (308, 660)
Patient IMD (2015)			
Quantile 1	19 (16, 23)	31 (26, 35)	42.58 (37, 48)
Quantiles 2,3,4	35 (32, 38)	60 (56, 65)	77 (72, 81)
Quantile 5	82 (72, 91)	132 (121, 144)	159 (146, 172)

Figure legends:

Figure 1: Trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

Figure 2: Trend in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.



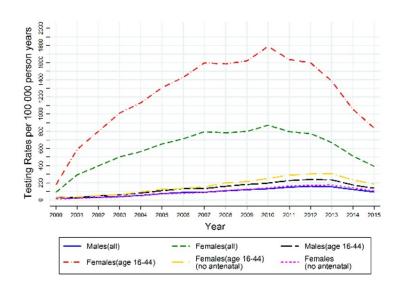


Figure 1 : Trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing

90x90mm (300 x 300 DPI)

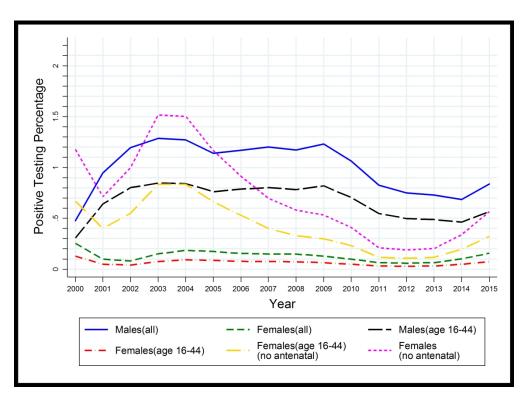
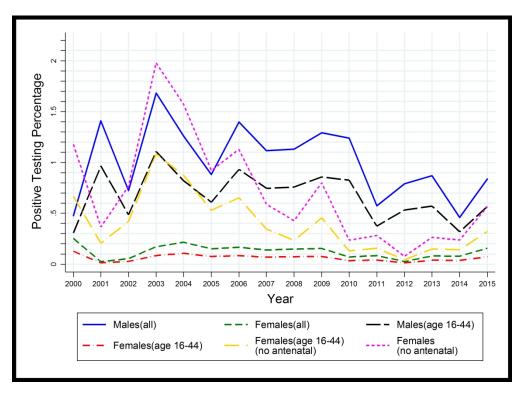


Figure 2: Trend in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)



Supplementary figure: Trend (unsmoothed graph) in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)

# Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

# **Supplementary tables**

Supplementary table 1: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults >16 years).

Males, all				_		Females, all			Females, excluding antenatal		
Year	N	Rate	95% C.I.		N	Rate	95% C.I.	N	Rate	95% C.I.	
2000	1277056	16.4	(14.2 , 18.7)		1332528	89.0	(83.9 , 94.1)	1331517	12.8	(10.8 , 14.7)	
2001	1299140	21.9	(19.3 , 24.4)		1352604	293.1	(283.9 , 302.3)	1348950	20.2	(17.8 , 22.7)	
2002	1317701	31.4	(28.3 , 34.5)		1367949	396.3	(385.7 , 406.9)	1363158	28.7	(25.8 , 31.6)	
2003	1341378	39.9	(36.5 , 43.3)		1388107	501.9	(490.0, 513.7)	1382140	36.5	(33.3 , 39.8)	
2004	1359662	52.5	(48.6 , 56.4)		1403681	563.0	(550.5 , 575.5)	1397351	54.7	(50.7 , 58.7)	
2005	1374451	74.2	(69.6 <i>,</i> 78.8)		1418325	653.1	(639.7 , 666.6)	1411272	77.0	(72.3 , 81.6)	
2006	1390451	87.5	(82.5 , 92.4)		1433622	711.6	(697.7 , 725.6)	1426111	80.9	(76.0 , 85.7)	
2007	1405428	89.4	(84.3 , 94.4)		1447828	795.2	(780.5 , 809.9)	1439651	94.3	(89.1 , 99.4)	
2008	1409645	106.6	(101.1 , 112.1)		1455081	781.9	(767.4 , 796.5)	1447676	113.1	(107.4 , 118.7)	
2009	1418613	120.0	(114.3 , 125.8)		1463654	797.9	(783.2 , 812.6)	1456530	128.6	(122.6 , 134.6)	
2010	1424751	130.2	(124.2 , 136.2)		1470650	870.7	(855.4, 886.0)	1463009	145.3	(139.0 , 151.6)	
2011	1421140	147.2	(140.8 , 153.6)		1474837	795.9	(781.2 , 810.5)	1468256	169.0	(162.1 , 175.8)	
2012	1427981	159.5	(152.9 , 166.2)		1482930	772.8	(758.4 , 787.1)	1476875	176.7	(169.7 , 183.6)	
2013	1430211	152.9	(146.4 , 159.4)		1486620	669.5	(656.2 , 682.9)	1481702	178.9	(171.9 , 185.9)	
2014	1436279	121.6	(115.8 , 127.4)		1487194	511.7	(500.1,523.4)	1483581	141.8	(135.6 , 148.1)	
2015	1421880	92.5	(87.4 , 97.6)		1472023	391.5	(381.2 , 401.7)	1469400	108.4	(103.0 , 113.9)	

Supplementary table 2: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults aged 16-44 years).

		s, all	Females, all			Females, excluding antenatal			
Year	N	Rate	95% C.I.	N	Rate	95% C.I.	N	Rate	95% C.I.
2000	671088	25.5	(21.6 , 29.4)	655488	177.4	(167.2 , 187.7)	654477	22.5	(18.8 , 26.1)
2001	681216	31.9	(27.6 , 36.2)	665358	589.8	(571.2 , 608.3)	661708	35.8	(31.2 , 40.4)
2002	688746	46.8	(41.5,52.0)	672213	799.5	(778.0,821.0)	667427	52.3	(46.7 , 57.8)
2003	698982	60.5	(54.7,66.4)	681748	1012.9	(989.0 , 1036.9)	675788	66.7	(60.5 , 73.0)
2004	706120	80.9	(74.1 , 87.6)	688504	1132.5	(1107.2 , 1157.8)	682186	98.4	(90.7 , 106.1)
2005	710489	107.4	(99.7 , 115.1)	694232	1308.9	(1281.8 , 1335.9)	687190	134.0	(125.2 , 142.8)
2006	714842	131.1	(122.6 , 139.6)	700086	1428.5	(1400.4 , 1456.7)	692589	139.8	(130.7 , 148.8)
2007	717434	133.5	(124.9 , 142.2)	704167	1598.2	(1568.4 , 1627.9)	696009	160.6	(151.0 , 170.3)
2008	711542	159.1	(149.7 , 168.5)	702985	1586.6	(1556.9 , 1616.3)	695600	206.5	(195.4 , 217.5)
2009	708782	181.0	(170.9 , 191.1)	700970	1618.4	(1588.3 , 1648.5)	693867	225.9	(214.3 , 237.4)
2010	702732	195.7	(185.2 , 206.2)	696368	1789.0	(1757.3 , 1820.6)	688743	262.4	(250.0 , 274.7)
2011	690732	225.9	(214.5 , 237.2)	689820	1636.2	(1605.6, 1666.7)	683258	301.1	(287.7 , 314.5)
2012	685037	236.9	(225.3 , 248.6)	685234	1598.0	(1567.8 , 1628.2)	679201	313.2	(299.6 , 326.8)
2013	675812	232.6	(221.0 , 244.2)	677984	1385.4	(1357.0 , 1413.7)	673088	315.1	(301.4 , 328.9)
2014	668263	174.8	(164.6 , 185.0)	667048	1056.2	(1031.2 , 1081.2)	663464	238.6	(226.5 , 250.8)
2015	639033	136.6	(127.4 , 145.9)	638248	839.3	(816.5 , 862.1)	635636	190.1	(179.0 , 201.1)

Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 

**Supplementary Material** 

Page 2 Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans et al 2009<sup>26</sup>)

es denotives recording de la companya de la company Page 3 Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans et al 2009<sup>26</sup>).

Page 4 Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson et al 50)

Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans *et al* 2009<sup>26</sup>)

	READ/		Certainty of
Code	OXMIS	Code description	HIV+ test
6827.11	READ	HIV screening	Definite
43C00	READ	HTLV-3 antibody test	Definite
43C11	READ	Aids antibody test	Definite
43C12	READ	Human immunodefic.viral test	Definite
43C1.00	READ	Blood sent for HTLV-3 serology	Definite
43C2.00	READ	HTLV-3 antibody negative	Definite
43C2.11	READ	HIV negative	Definite
43CZ.00	READ	HTLV-3 antibody NOS	Definite
43d5.00	READ	HIV antibody/antigen (Duo)	Definite
43d6.00	READ	HTLV 1 antibody level	Ambiguous
43dc.00	READ	HTLV 2 antibody level	Ambiguous
43h2.00	READ	HIV 1 PCR	Definite
43j7.00	READ	HIV 1 nucleic acid detection	Definite
43V1.00	READ	Absolute CD4 count	Definite
43VE.00	READ	CD4/CD8 ratio	Definite
43VH.00	READ	Percentage CD4 count	Definite
43Vo.00	READ	Absolute CD4 (T4 cells) count	Definite
43Vp.00	READ	Percentage CD4 (T4 cells) count	Definite
43W7.00	READ	HIV1 antibody level	Definite
43W8.00	READ	HIV2 antibody level	Definite
43WK.00	READ	Human immunodeficiency virus antibody level	Definite
4J34.00	READ	HIV viral load	Definite
4J35.00	READ	HIV p24 antigen level	Definite
4JDT.00	READ	HIV serology	Definite
4JR7.00	READ	HIV screening test	Definite
62b00	READ	Antenatal HIV screening	Definite
6827.00	READ	AIDS (HTLV-III) screening	Definite
		[D]Laboratory evidence of human immunodefiency virus	
R109.00	READ	[HIV]	Definite
ZV01800	READ	[V]Human immunodeficiency virus - negative	Definite
		[V]Special screening exam for human immunodefiency	
ZV73700	READ	virus	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
L 153	OXMIS	HTVL-AIDS-III ANTIBODY TEST	Definite
L1111NE	OXMIS	HIV ANTIBODY TEST NEGATIVE	Definite
L 153N	OXMIS	HTVL-AIDS-III ANTIBODY TEST NEGATIVE	Definite
65VE.00	READ	Notification of AIDS	Ambiguous
43j8.00	READ	HTLV 1 nucleic acid detection	Ambiguous

Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans *et al* 2009<sup>26</sup>).

Code	Read/ OXMIS	Code description	Certainty of HIV+ status
65QA.00	READ	AIDS carrier	Definite
A789700	READ	HIV disease resulting other ypes of non-Hodgkin's lymphoma	Definite
A789800	READ	HIV disease resulting in multiple malignant neoplasms	Definite
A788.00	READ	Acquired immune deficiency syndrome	Definite
A788500	READ	Human immunodeficiency virus with secondary infection	Definite
A788X00	READ	HIV disease resulting/unspcf infectious+parasitic disease	Definite
A789200	READ	HIV disease resulting in candidiasis	Definite
A789500	READ	HIV disease resulting in Kaposi's sarcoma	Definite
AyuC100	READ	[X]HIV disease resulting in other viral infections	Definite
AyuC700	READ	[X]HIV dis reslt/oth mal neopl/lymph,h'matopoetc+reltd tissu	Definite
A788000	READ	Acute human immunodeficiency virus infection	Definite
A788100	READ	Asymptomatic human immunodeficiency virus infection	Definite
A789300	READ	HIV disease resulting in Pneumocystis carinii pneumonia	Definite
A789600	READ	HIV disease resulting in Burkitt's lymphoma	Definite
A798.00	READ	Retrovirus infection	Definite
AyuC200	READ	[X]HIV disease resulting in other mycoses	Definite
AyuCA00	READ	[X]HIV disease resulting in multiple diseases CE	Definite
		HIV disease result/haematological+immunologic	
A788U00	READ	abnorms,NEC	Definite
A789.00	READ	Human immunodef virus resulting in other disease	Definite
AyuC000	READ	[X]HIV disease resulting in other bacterial infections	Definite
AyuC800	READ	[X]HIV disease resulting in other malignant neoplasms	Definite
43C3.11	READ	HIV positive	Definite
A788y00	READ	Human immunodeficiency virus with other clinical findings	Definite
Eu02400	READ	[X]Dementia in human immunodef virus [HIV] disease	Definite
		[V]Asymptomatic human immunodeficency virus infection	2 0
ZV01A00	READ	status	Definite
A789400	READ	HIV disease resulting in multiple infections	Definite
AyuC500	READ	[X]HIV disease resulting/unspcf infectious+parasitic disease	Definite
AyuC900	READ	[X]HIV disease resulting in unspecified malignant neoplasm	Definite
AyuCC00	READ	[X]HIV disease resulting in other specified conditions	Definite
43C3.00	READ	HTLV-3 antibody positive	Definite
A788W00	READ	HIV disease resulting in unspecified malignant neoplasm	Definite
A789X00	READ	HIV dis resit/oth mal neopl/lymph,h'matopoetc+	Definite
AyuC300	READ	[X]HIV disease resulting in multiple infections	Definite
AyuC400	READ	[X]HIV disease resulting/other infectious+parasitic diseases	Definite
AyuC600	READ	[X]HIV disease resulting in other non-Hodgkin's lymphoma	Definite
A788600	READ	Human immunodeficiency virus with secondary cancers	Definite
7170000	T(E/T)	Acquired human immunodeficiency virus infection syndrome	Demine
A788z00	READ	NOS	Definite
A788200 A789A00	READ	HIV disease resulting in wasting syndrome	Definite
65VE.00	READ	Notification of AIDS	Definite
A788.11	READ	Human immunodeficiency virus infection	Definite
A788200	READ	HIV infection with persistent generalised lymphadenopathy	Definite
A788300	READ	Human immunodeficiency virus with constitutional disease	Definite
A788400	READ	Human immunodeficiency virus with neurological disease	Definite
~/ 00 <del>4</del> 00	NEAD	maman inimunouenciency virus with heurological disease	שווווונפ

# Appendix 2 (CONT'D): Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care.

	Read/		Certainty of
Code	OXMIS	Code description	HIV+ status
A788V00	READ	HIV disease resulting in multiple diseases CE	Definite
A789100	READ	HIV disease resulting in cytomegaloviral disease	Definite
AyuC.00	READ	[X]Human immunodeficiency virus disease	Definite
AyuCD00	READ	[X]Unspecified human immunodeficiency virus [HIV] disease	Definite
A789000	READ	HIV disease resulting in mycobacterial infection	Definite
A789900	READ	HIV disease resulting in lymphoid interstitial pneumonitis	Definite
AyuCB00	READ	[X]HIV disease result/haematological+immunologic abnorms,NEC	Definite
R109.00	READ	[D]Laboratory evidence of human immunodefiency virus [HIV]	Definite
ZV01A00	READ	[V]Asymptomatic human immunodeficency virus infection status	Definite
799MD	OXMIS	AIDS	Definite
799CA	OXMIS	AIDS CARRIER	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L7990A	OXMIS	ACQUIRED IMMUNE DEFICIENCY SYNDROME	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
43V1.00	READ	Absolute CD4 count	Ambiguous
AyuD800	READ	[X]Retrovirus infections, not elsewhere classified	Ambiguous
AyuKM00	READ	[X]Retrovirus/cause of diseases classified to other chapters	Ambiguous
43VE.00	READ	CD4/CD8 ratio	Ambiguous
A7y0100	READ	Retrovirus as cause of diseases classified to other chapters	Ambiguous
43VH.00	READ	Percentage CD4 count	Ambiguous
4J34.00	READ	HIV viral load	Ambiguous
4J35.00	READ	HIV p24 antigen level	Ambiguous
43h2.00	READ	HIV 1 PCR	Ambiguous
43j7.00	READ	HIV 1 nucleic acid detection	Ambiguous
43Vo.00	READ	Absolute CD4 (T4 cells) count	Ambiguous
43Vp.00	READ	Percentage CD4 (T4 cells) count	Ambiguous

# Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson *et al* <sup>50</sup>)

medcode	readcode	readterm
52685	ZV23000	[V]Pregnancy with history of infertility
3030	4654	Urine pregnancy test positive
73535	L13z100	Unspecified pregnancy vomiting - delivered
53514	Z22D300	Uncertain viability of pregnancy
11422	Z226.00	Pregnancy problem
20623	ZV4J000	[V]Problems related to unwanted pregnancy
99247	L13y200	Other pregnancy vomiting - not delivered
56451	L13zz00	Unspecified pregnancy vomiting NOS
14644	L166z11	UTI - urinary tract infection in pregnancy
32975	6166	Pregnant, diaphragm failure

	1 765 00	Small-tor-dates tetus in pregnancy
23495 3766	L265.00 L1000	Small-for-dates fetus in pregnancy  Haemorrhage in early pregnancy
56953	Z235400	Pendulous pregnant abdomen
40279	7E19012	Fimbrial extraction of tubal pregnancy
29122	7E19012	Removal of ectopic pregnancy from fallopian tube
1748	7E08400	Suction termination of pregnancy
106170	L21zz00	Multiple pregnancy NOS
5357	7E08500	Dilation of cervix and extraction termination of pregnancy
14899	621Z.00	Patient pregnant NOS
61563	L161300	Oedema or excessive weight gain in pregnancy - not delivered
64523	L091z00	Delayed/excess haemorrhage NOS following abortive pregnancy
20621	ZV25313	[V]Admission for termination of pregnancy
20021	ZV25313 ZV25311	[V]Admission for termination of pregnancy (TOP)
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	•	
54866	L030.00	
38882	L123600	
61995	L03yz00	
5044	13H7.00	Unwanted pregnancy
	Z22AD11	
38882 61995	L263A11 6174 L1500 Q0z00 L13y.00 L123000 L168400 L093.00 9mK0.00 6294 L181100 L030.00 L123600 L03yz00 13H7.00	Glycosuria during pregnancy - delivered Liver disorder in pregnancy - not delivered Incomplete termination of pregnancy Pregnancy advice NOS Fetal death due to termination of pregnancy Pertussis vaccination in pregnancy Serum pregnancy associated plasma protein-A MoM measurement Delayed/excessive haemorrhage following abortive pregnancy Post-term pregnancy NOS Triplet pregnancy NOS Undiagnosed pregnancy Iron deficiency anaemia of pregnancy Triplet pregnancy unspecified Low risk pregnancy Pregnancy associated plasma protein A level Maternal care for reduced fetal heart rate during pregnancy Pregnant, sheath failure Prolonged or post-term pregnancy Maternal problem unrelated preg affecting fetus/neonate NOS Other pregnancy vomiting Transient hypertension of pregnancy unspecified Fatigue during pregnancy with postnatal complication Renal failure following abortive pregnancy Pertussis vaccination in pregnancy invitation first letter No A/N care: not known preg. Thyroid dysfunction during pregnancy - baby delivered Abdominal pregnancy Transient hypertension of pregnancy Other ectopic pregnancy NOS Unwanted pregnancy Reported conception - pregnancy

21467	L03y200	Membranous pregnancy
48304	L10z200	Early pregnancy haemorrhage NOS - not delivered
37693	13Hd.00	Teenage pregnancy
27980	L166700	Infections of the genital tract in pregnancy
2638	L100	Pregnancy complications
99933	L092100	Bowel damage following abortive pregnancy
41122	L10zz00	Early pregnancy haemorrhage NOS
37348	Lyu2500	[X]Other specified pregnancy-related conditions
96757	L411513	Vulval varices in pregnancy
59634	L411512	Vaginal varices in pregnancy
99237	L411511	Perineal varices in pregnancy
27451	L166000	Genitourinary tract infection in pregnancy unspecified
110129	6556000	Pertussis vacc in pregnancy given by other healthcre providr
107485	Q014000	Fetus or neonate affected by unspecified ectopic pregnancy
18258	L167.00	Liver disorder in pregnancy
42015	L16y.00	Other pregnancy complications
25028	L09z.00	Complication NOS following abortion/ectopic/molar pregnancy
44734	6208.00	Pregnancy prolonged - 42 weeks
23831	ZV22y00	[V]Other specified pregnant state
41587	L210z00	Twin pregnancy NOS
24063	6207.00	Pregnancy prolonged - 41 weeks
44650	L0y00	Other specified pregnancy with abortive outcome
61284	L210200	Twin pregnancy with antenatal problem
54288	Z22D311	Query viability of pregnancy
34938	L212.00	Quadruplet pregnancy
102494	8Hh3.00	Self referral to termination of pregnancy service
1686	7E08600	Termination of pregnancy NEC
70214	L21z100	Multiple pregnancy NOS - delivered
64247	Z235.00	Observation of shape of pregnant abdomen
23751	L266.00	Large-for-dates fetus in pregnancy
39359	L385.00	Failed or difficult intubation during pregnancy
64500	L183.11	Pregnancy and drug dependence
73917	L10y200	Other haemorrhage in early pregnancy - not delivered
255	L0512	Termination of pregnancy
15433	L2100	Multiple pregnancy
20439	L123.00	Transient hypertension of pregnancy
16775	L16E.00	Pregnancy pruritus
53921	L161000	Oedema or excessive weight gain in pregnancy, unspecified
44770	L191.00	Continuing pregnancy after abortion of one fetus or more
29205	4453	Serum pregnancy test positive
46577	66AX.00	Diabetes: shared care in pregnancy - diabetol and obstet
73455	Q015200	Fetus or neonate affected by triplet pregnancy
41625	L13yz00	Other pregnancy vomiting NOS
60345	M240500	Alopecia of pregnancy
107957	115V.00	No history of ectopic pregnancy

5693	L16A.00	Glycosuria during pregnancy
36394	L16C.00	Pregnancy induced oedema+proteinuria without hypertension
73914	L412511	Thrombophlebitis of legs in pregnancy
53849	L16y000	Other pregnancy complication unspecified
105943	L165300	Asymptomatic bacteriuria in pregnancy - not delivered
36421	L167z00	Liver disorder in pregnancy NOS
25872	L16yz00	Other pregnancy complication NOS
60309	Q0y00	Maternal problems unrelated preg affecting fetus/neonate OS
67728	L150200	Post-term pregnancy - not delivered
28103	Z22A300	Concealed pregnancy
21849	L031.00	Tubal pregnancy
54577	L210000	Twin pregnancy unspecified
105654	L10y100	Other haemorrhage in early pregnancy - delivered
53685	L410500	Varicose veins of legs in pregnancy
68930	L168100	·
68840	L416200	Fatigue during pregnancy - delivered  Haemorrhoids in pregnancy and puerperium - deliv + p/n comp
53167 45862	L188300 7E07114	Abnormal GTT during pregnancy - baby not yet delivered
		Curettage of uterus for termination of pregnancy NEC
64366	L412500	Superficial thrombophlebitis in pregnancy
13968	584D.00	Antenatal ultrasound confirms intra-uterine pregnancy
14925	L10z.00 L185.11	Early pregnancy haemorrhage NOS
61935		Congenital heart disease in pregnancy
103059	7E07111	Curettage of term pregnancy NEC
16384	7E07113	Curettage of uterus for termination of pregnancy NEC
23421	615C.00	IUD failure - pregnant
3029	L166500	Infections of kidney in pregnancy
106517	L176100	Other maternal viral disease in pregnancy - baby delivered
40964	L192.00	Continuing preg after intrauterine death one fetus or more
	7F06012	Shirodkar suture in pregnancy
30302	7F12	Pregnancy operations
28107	L161.00	Oedema or excessive weight gain in pregnancy no hypertension
85960	44Cz.00	Plasma pregnancy associated plasma protein-A MoM
44057	ZV23111	[V]Pregnancy with history of hydatidiform mole
37573	Z22B900	Continuing pregnancy after abortion of sibling fetus
68694	Z22C.00	Observation of measures of pregnancy
49559	L180300	Diabetes mellitus during pregnancy - baby not yet delivered
29786	L416600	Haemorrhoids in pregnancy
57059	L187300	Orthopaedic disorder in pregnancy - baby not yet delivered
23334	L162.11	Albuminuria in pregnancy without hypertension
92579	L162.13	Uraemia in pregnancy without hypertension
38312	L162.12	Nephropathy NOS in pregnancy without hypertension
22215	Z22A200	High risk pregnancy
38346	ZV22000	[V]First normal pregnancy supervision
15318	6214	Pregnant - on history
41504	L13y000	Other pregnancy vomiting unspecified

72019	L132200	Late pregnancy vomiting - not delivered
37386	8B68.00	Pregnancy prophylactic therapy
60877	L263800	Maternal care for fetal decelerations during pregnancy
107225	L165z00	Asymptomatic bacteriuria in pregnancy NOS
54942	L123100	Transient hypertension of pregnancy - delivered
54701 63825	ZV23y00 Q014.00	[V]Other specified high-risk pregnancy
94804	67AB.00	Fetus or neonate affected by ectopic pregnancy
		Preg. prescription exempt adv.
72835	Q01z.00	Fetus/neonate affected by maternal complic pregnancy NOS
99008	Q014300	Fetus or neonate affected by tubal ectopic pregnancy
110868	L181000	Thyroid dysfunction - unspec whether in pregnancy/puerperium
66649	L41z500	Venous complication of pregnancy, unspecified
26286	L18A000	Cholestasis of pregnancy
17947	62a00	Pregnancy review
103104	L176300	Other maternal viral dis.in pregnancy-baby not yet delivered
109932	Z235211	Globular pregnant abdomen
68004	Q0100	Fetus/neonate affected by maternal complication of pregnancy
20240	6216	Pregnant - planned
65834	ZV23200	[V]Pregnancy with history of abortion
7916	Z254500	Delivered by caesarean section - pregnancy at term
21119	L182300	Anaemia during pregnancy - baby not yet delivered
9408	L10y.11	Bleeding in early pregnancy
64099	L168000	Fatigue during pregnancy unspecified
10278	L180800	Diabetes mellitus arising in pregnancy
2602	L166.11	Cystitis of pregnancy
13165	62100	Patient currently pregnant
9986	Z212.11	Pregnancy care
66594	L186.11	Heart disease during pregnancy
35158	Z225.00	Normal pregnancy
93800	Z235100	Ovoid pregnant abdomen
73727	L168z00	Fatigue during pregnancy NOS
55889	L175300	Maternal rubella during pregnancy - baby not yet delivered
7517	621C.00	Unplanned pregnancy
53908	Lyu0000	[X]Other ectopic pregnancy
34173	L12B.00	Proteinuric hypertension of pregnancy
35514	624Z.00	A/N care: precious preg. NOS
15065	8B711	Pregnancy vitamin/iron prophyl
109465	L184300	Mental disorder during pregnancy - baby not yet delivered
24038	13S00	Pregnancy benefits
16215	6211	Pregnant - urine test confirms
35592	6213	Pregnant - V.E. confirms
25254	Z2100	Care relating to reproduction and pregnancy
46609	Z22C800	Number of lost pregnancies
29692	615C.11	Pregnant, IUD failure
50440	Z22A500	Biochemical pregnancy

FC2F2	7\/22100	N/Out and a second a second and
56252	ZV22100	[V]Other normal pregnancy supervision
21196	ZV23.00	[V]High-risk pregnancy supervision
30618	Z22AB00	Unplanned pregnancy
10775	8B74.00	Iron supplement in pregnancy
48534	ZV23100	[V]Pregnancy with history of trophoblastic disease
73559	L13z000	Unspecified pregnancy vomiting unspecified
13984	584E.00	Antenatal ultrasound confirms ectopic pregnancy
9754	Z22A400	Early stage of pregnancy
67893	L2C00	Malnutrition in pregnancy
70993	L16Az00	Glycosuria during pregnancy NOS
23438	L2z00	Risk factors in pregnancy NOS
105694	ZVu2300	[X]Supervision of other normal pregnancy
53097	Z22C313	Duration of pregnancy
58156	L03y.00	Other ectopic pregnancy
55730	ZV22.11	[V]Supervision of normal pregnancy
5709	6213	Pregnancy care
100104	95B00	Health in Pregnancy grant claim form issued
72883	Lyu2100	[X]Other vomiting complicating pregnancy
59588	L411500	Genital varices in pregnancy
67863	Z22B.00	Observation of quantity of pregnancy
12890	Z227.00	Confirmation of pregnancy
47080	L162.00	Unspecified renal disease in pregnancy
3191	L16y500	Abdominal pain in pregnancy
27740	L1600	Other pregnancy complication NEC
67698	L150000	Post-term pregnancy unspecified
29623	62H4.00	Rh screen - 2nd preg. sample
21438	7E08411	Vacuum termination of pregnancy
51298	6215	Pregnant - on abdom. palpation
35912	ZV22200	[V]Pregnancy confirmed
99980	L168300	Fatigue during pregnancy - not delivered
29593	6223	Antenatal care: 3rd pregnancy
49407	L2B00	Low weight gain in pregnancy
52583	L168.00	Fatigue during pregnancy
69599	L21y.00	Other multiple pregnancy
39117	L126500	Eclampsia in pregnancy
863	L398200	Caesarean section - pregnancy at term
90776	62a11	Review of pregnancy
91254	Z235200	Rounded pregnant abdomen
109416	62H5.00	Rh screen - 3rd preg. sample
69815	62H3.00	Rh screen - 1st preg. sample
11989	8HHV.00	Referral for termination of pregnancy
37701	Z22A.00	Observation of pattern of pregnancy
33441	L511.00	Maternal care for viable fetus in abdominal pregnancy
106957	9Nif.00	Did not attend pertussis vaccination in pregnancy
24603	L10y.00	Other haemorrhage in early pregnancy

47608	L177.00	Infactions of bladder in prognancy
63751	L177.00 L16A300	Infections of bladder in pregnancy Glycosuria during pregnancy - not delivered
15418	L166300	Genitourinary tract infection in pregnancy - not delivered
59313	Z22BA00	Contin pregnancy after intrauterine death of sibling fetus
69722	ZV23z00	[V]Unspecified high-risk pregnancy
14842	6217	
42614	Z2200	Pregnant - unplanned - wanted
53490	L178.00	Pregnancy observations
		Infections of urethra in pregnancy
43344	ZV61800	[V]Illegitimate pregnancy
10173	Z23D200	Pregnant abdomen observation
52685	ZV23000	[V]Pregnancy with history of infertility
50512	L031z00	Tubal pregnancy NOS
49502	L228.00	Multiple pregnancy with malpresentation
50058	13SZ.00	Pregnancy benefit NOS
69011	L132000	Late pregnancy vomiting unspecified
10185	L1300	Excessive pregnancy vomiting
10184	67A3.00	Pregnancy smoking advice
97349	L121300	Renal hypertension in preg/childbirth/puerp - not delivered
101518	L132z00	Late pregnancy vomiting NOS
71730	L123300	Transient hypertension of pregnancy - not delivered
31162	L165.00	Asymptomatic bacteriuria in pregnancy
52048	Z22AB11	Accidental pregnancy
54938	L162000	Unspecified renal disease in pregnancy unspecified
62358	L167000	Liver disorder in pregnancy unspecified
110888	67lt.00	Advice on risk harm to mother from maternl medictn dur preg
38771	Lyu2200	[X]Other venous complications in pregnancy
15634	L166z00	Genitourinary tract infection in pregnancy NOS
43000	L16D.00	Excessive weight gain in pregnancy
14651	13H8.00	Illegitimate pregnancy
108236	621D.00	Concealed pregnancy
15033	ZV61900	[V]Other unwanted pregnancy
67164	L18z300	Medical condition NOS in pregnancy - baby not yet delivered
93303	ZV22400	[V]Supervision of other normal pregnancy
6184	ZV22.00	[V]Normal pregnancy
48281	Z22D200	Non-viable pregnancy
29746	8B75.00	Vitamin supplement - pregnancy
16611	ZV22300	[V]Pregnant state, incidental
1130	L210.00	Twin pregnancy
52221	L03y000	Cervical pregnancy
59650	Z235300	Transversely enlarged pregnant abdomen
69327	L10yz00	Other haemorrhage in early pregnancy NOS
51956	L212200	Quadruplet pregnancy with antenatal problem
10306	Z22C314	Weeks pregnant
45965	Z22C311	Pregnancy duration
26055	L263A00	Maternal care for fetal bradycardia during pregnancy

61301	L10y000	Other haemorrhage in early pregnancy unspecified
10261	L200	Risk factors in pregnancy
106268	8IEc.00	Pertussis vaccination in pregnancy declined
24944	L163300	Pregnancy care of habitual aborter
20118	62012	Static weight gain pregnancy
58142	L16A000	Glycosuria during pregnancy unspecified
61835	L161z00	Oedema or excessive weight gain in pregnancy NOS
23995	L1511	Post-term pregnancy
35646	L123z00	Transient hypertension of pregnancy NOS
93895	Z22B500	Quintuplet pregnancy
65256	L164.00	Peripheral neuritis in pregnancy
67975	L166.00	Genitourinary tract infections in pregnancy
36006	L16z.00	Pregnancy complication NOS
61466	Z22A211	HRP - High risk pregnancy
26866	L2y00	Other specified risk factors in pregnancy
35855	L15z.00	Prolonged pregnancy NOS
2937	L175.11	Rubella contact in pregnancy
50421	Z22A900	Unwanted pregnancy
37048	6282	A/N care:10yrs+since last preg
49193	67A7.11	Care of teeth advice -in preg.
11986	7E13300	Excision of ruptured ectopic tubal pregnancy
97034	67AE.00	Folic acid advice in first trimester of pregnancy
106737	9mK2.00	Pertussis vaccination in pregnancy invitation third letter
102362	389B.00	Assessment for termination of pregnancy
55618	ZV23600	[V]Supervisn/pregnancy wth history insufficnt antenatal care
37038	Z23D100	Girth of pregnant abdomen
29631	6222	Antenatal care: 2nd pregnancy
65555	L132.00	Late vomiting of pregnancy
107698	Z236300	Pregnant uterus displaced laterally
4536	62111	Pregnancy confirmed
111540	L415500	Other phlebitis in pregnancy
32493	Z22AD00	Presentation of pregnancy
44729	L031000	Fallopian tube pregnancy
43140	67A2.00	Diet in pregnancy advice
91888	L181300	Thyroid dysfunction in pregnancy - baby not yet delivered
12837	7F2B100	Ultrasound monitoring of early pregnancy
30351	67A6.00	Drugs in pregnancy advice
15567	6218	Pregnant -unplanned-not wanted
33724	L03z.00	Ectopic pregnancy NOS
100892	Lyu2400	[X]Other+unspcf genitourinary tract infection in pregnancy
127	6200	Patient pregnant
13672	8HHf.00	Refer to early pregnancy unit
32073	L000	Pregnancy with abortive outcome
64292	L16y300	Other pregnancy complication - not delivered
106425	62NL.00	Antenatal 31 week examination

100543	1222200	Coultant de desirb communication with contract and blanc
109543	L332200	Cord tangled with compression with antenatal problem
102300	Lyu2A00	[X]Abnormal finding on antenatal screening of mother
111263	L230200	Disproportion - major pelvic abnormality with antenatal prob
55111	6B22.00	Sure Start antenatal visit
13418	62W00	Antenatal blood tests
61533	L270200	Polyhydramnios with antenatal problem
14085	62GB.00	Antenatal ultrasounds scan at 4-8 weeks
42326	62KZ.00	Antenatal syphilis screen NOS
18536	62b00	Antenatal HIV screening
99475	68b5.00	Antenatal screening result pending
13168	62NZ.00	Antenatal examination NOS
63448	Z675.00	Antenatal class
100596	68b3.00	Antenatal screening shows significant disorder
67926	ZV28z00	[V]Unspecified antenatal screening
16613	584C.00	Antenatal ultrasound result received
23667	L413.00	Antenatal deep vein thrombosis
53683	L452300	Obstetric nonpurulent mastitis with antenatal complication
104764	L236200	Hydrocephalic disproportion with antenatal problem
56967	9NV1.00	Antenatal clinic
13417	62K00	Antenatal syphilis screen
108099	L39z300	Complications of labour and delivery NOS with antenatal prob
70096	L224200	Transverse lie with antenatal problem
104359	ZVu2600	[X]Other antenatal screening based on amniocentesis
294	6211	Antenatal care
104178	Lyu2600	[X]Other abnormal findings on antenatal screening of mother
27056	62GD.00	Antenatal ultrasound scan at 17-22 weeks
98481	68b4.00	Repeat antenatal screening required
14084	62GC.00	Antenatal ultrasound scan at 9-16 weeks
28732	62c00	Antenatal screening
6095	9N1N.00	Seen in antenatal clinic
99849	68bA.00	Antenatal screening, at risk couple identified
21957	62111	AFP test - antenatal
73765	L311200	Secondary uterine inertia with antenatal problem
102246	L265200	Small-for-dates with antenatal problem
73191	L226200	Brow presentation with antenatal problem
69254	L264200	Intrauterine death with antenatal problem
104766	L30z200	Obstructed labour NOS with antenatal problem
109071	38B6.00	Antenatal risk assessment
7845	Z212.00	Antenatal care
30378	L244312	Rectocele complicating antenatal care - baby not delivered
101938	L390300	Maternal distress with antenatal problem
90277	L350200	Rupture of uterus before labour with antenatal problem
97259	68b6.00	Antenatal screening declined
111183	8IHD.00	Health visitor antenatal visit declined
106588	62NJ.00	Antenatal 22 week examination

30801	62OZ.00	Misc. antenatal data NOS
49665	ZV28600	[V]Antenatal screening for chromosomal anomalies
21543	62200	Antenatal care: gravida No.
109313	9Nil.00	Did not attend antenatal appointment
102755	8CEM.00	Downs syndrome antenatal screening information leaflet given
37985	L2AX.00	Abnormal finding on antenatal screening of mother
91272	L440300	Puerperal cerebrovascular disorder with antenatal comp
99286	L28y200	Other amniotic/membrane problem with antenatal problem
99479	L267200	Other placental conditions with antenatal problem
10056	62N00	Antenatal examinations
44401	L305200	Shoulder dystocia with antenatal problem
35484	679E.00	Antenatal education
103512	L330200	Prolapse of cord with antenatal problem
99939 101354	L33y200 L244311	Other umbilical cord complications with antenatal problem
		Cystocele complicating antenatal care - baby not delivered  Antenatal ultrasound scan at 22-40 weeks
39611	62GE.00	
40597	ZV28y00	[V]Other specified antenatal screening
70046	L2A4.00	Abnormal radiological finding on antenatal screen of mother
105047	L2A2.00	Abnormal cytological finding on antenatal screen of mother
96678	L33z200	Umbilical cord complications NOS with antenatal problem
15685	L2A00	Abnormal findings on antenatal screening of mother
2029	62G00	Antenatal ultrasound scan
103787	1514100	Estimated date of delivery by antenatal ultrasound scan
31570	6224	Antenatal care: multip
97391	L281200	Premature rupture of membranes with antenatal problem
65725	L413000	Antenatal deep vein thrombosis unspecified
13819	62F00	Antenatal amniocentesis
107186	L266200	Large-for-dates with antenatal problem
16750	6221	Antenatal care: primigravida
71851	L229200	Prolapsed arm with antenatal problem
105865	67AJ.00	Provision of information about antenatal screening
109043	9NFV.00	Health visitor antenatal visit
47928	L280200	Oligohydramnios with antenatal problem
6298	ZV28.00	[V]Antenatal screening
45032	62000	Misc. antenatal data
66496	L222200	Breech presentation with antenatal problem
14002	8HT9.00	Referral to antenatal clinic
14083	62GZ.00	Antenatal ultrasound scan NOS
13419	62L00	Antenatal blood group screen
42120	L2A0.00	Abnormal haematologic find on antenatal screening of mother
13416	62M00	Antenatal sickle cell screen
69788	L260200	Fetal-maternal haemorrhage with antenatal problem
73734	ZVu2900	[X]Other antenatal screening
95107	L312200	Other uterine inertia with antenatal problem
103677	Eu32B00	[X]Antenatal depression

100022	CONK OO	Antomotol 25 words oversination
106923	62NK.00	Antenatal 25 week examination
108811	L245300	Cervical incompetence with antenatal problem
73407	L261200	Rhesus isoimmunisation with antenatal problem
101980	65QG.00	Antenatal screening shows non sig haemoglobinopathy carrier
44828	L263200	Fetal distress with antenatal problem
45091	62Y00	Routine antenatal care
71862	L323200	Delayed delivery second twin with antenatal problem
71794	L307200	Other failed trial of labour with antenatal problem
51432	62FZ.00	Antenatal amniocentesis NOS
97523	68b00	Antenatal screening status
28290	L2A3.00	Abnormal ultrasonic finding on antenatal screening of mother
36226	L2A1.00	Abnormal biochemical finding on antenatal screen of mother
100502	L413200	Antenatal deep vein thrombosis with antenatal complication
61203	L413z00	Antenatal deep vein thrombosis NOS
100578	L255200	Fetus with drug damage with antenatal problem
69072	L262200	Other blood-group isoimmunisation with antenatal problem
49617	622Z.00	Antenatal care: gravida NOS
26873	L413.11	DVT - deep venous thrombosis, antenatal
33009	6254	A/N care: H/O child abuse
29610	62NB.00	A/N 36 week examination
61162	L250200	Fetus with central nervous system malformation + a/n problem
52044	6252	A/N care: poor A/N attender
35513	6284	A/N care: primip. > 30 years
26695	625Z.00	A/N care: social risk NOS
55605	62NH.00	A/N 42 week examination
30797	6233	A/N care: grand multip
23013	6231	A/N care: uncertain dates
36516	62F4.00	A/N amniocentesis wanted
37046	628Z.00	A/N risk NOS
107506	62H2.00	A/N Rh screen offered
25331	6206.11	Vaginal 'show' - A/N
64537	62GA.00	A/N U/S scan for slow growth
13821	62F6.00	A/N amniocentesis - normal
19772	62F3.00	A/N amniocentesis - not wanted
70840	L240311	Bicornuate uterus complicating a/n care, baby not delivered
33287	62F1.00	A/N amniocentesis -not offered
13171	62N8.00	A/N 32 week examination
52049	62G3.00	A/N U/S scan not wanted
33008	6285	A/N care: multip. > 35 years
26696	6253	A/N care: late booker
24219	62A00	A/N care provider
13308	62500	A/N care: social risk
26692	6236	A/N care: poor obstetr history
37222	62G1.00	A/N U/S scan not offered
25391	62112	Alpha-feto protein test - A/N

35512	6281	A/N care: under 5ft tall
31251	62700	A/N care: gynae. risk
26551	62NE.00	A/N 39 week examination
68089	62HZ.00	A/N Rh antibody screen NOS
26691	6235	A/N care: H/O perinatal death
35826	62G6.00	A/N U/S scan normal += dates
30885	62G4.00	A/N U/S scan wanted
70289	62F9.00	A/N amnio. for ? neural tube
26693	62600	A/N care: medical risk
73099	L246311	Polyp of cervix complicating a/n care- baby not delivered
20401	L241311	Uterine fibroid complicating a/n care, baby not delivered
65450	62F2.00	A/N amniocentesis - offered
24236	62AZ.00	A/N care provider NOS
26553	62ND.00	A/N 38 week examination
102160	L283200	Prolonged artificial rupture of membranes with a/n problem
64141	62K2.00	A/N syphilis screen-blood sent
26550	62A2.00	A/N care from consultant
89025	L237200	Other fetal abnormality causing disproportion with a/n prob
102099	62MZ.00	A/N sickle cell screen NOS
47415	62G5.00	A/N U/S scan awaited
13415	62A4.00	A/N care midwifery led
54734	L28z200	Amniotic cavity and membrane problem NOS with a/n problem
14086	62G8.00	A/N U/S scan abnormal
37221	62G7.00	A/N U/S scan normal +? dates
66608	L241300	Tumour of uterine body complicating a/n care, baby not deliv
71797	L248300	Vulval abn complicating a/n care - baby not yet delivered
37029	62NG.00	A/N 41 week examination
29727	62NA.00	A/N 35 week examination
108885	62L1.00	A/N blood gp screen not done
39172	62L2.00	A/N blood group screen done
38165	6237	A/N care: H/O trophoblast.dis.
35511	6234	A/N care: H/O stillbirth
26875	6232	A/N care: recurrent aborter
9546	62300	A/N care: obstetric risk
73120	L247300	Vaginal abnormality complicating a/n care-baby not delivered
24214	62A1.00	A/N care from G.P.
13169	62N5.00	A/N 24 week examination
29627	62N7.00	A/N 30 week examination
3517	62N1.00	A/N booking examination
62147	62F8.00	A/N amnio. for ? chrom.abnorm.
37047	6242	A/N care: H/O infertility
27057	62G9.00	A/N U/S scan for ? abnormality
70616	62M2.00	A/N sickle cell screen done
29059	62A3.00	A/N - shared care
108867	62M1.00	A/N sickle screen not done

12260	6211 00	A /AL Discontibulate and a series
12260	62H00	A/N Rh antibody screen
41955	62F5.00	A/N amniocentesis - awaited
13166	62N3.00	A/N 16 week examination
35510	6241	A/N care: elderly primip.
26552	62NC.00	A/N 37 week examination
29280	62NF.00	A/N 40 week examination
3786	62800	A/N care: risk NOS
39728	62011	Fetal maturity - A/N
13822	62F7.00	A/N amniocentesis - abnormal
71912	62H1.00	A/N Rh screen not offered
26694	6251	A/N care: poor home conditions
70186	62LZ.00	A/N blood group screen NOS
26690	623Z.00	A/N care: obstetric risk NOS
98957	L240300	Cong abnorm uterus complicating a/n care, baby not delivered
13170	62N9.00	A/N 34 week examination
109166	62K1.00	A/N syphilis screen not done
13167	62N2.00	A/N 12 weeks examination
37220	62G2.00	A/N U/S scan offered
29364	62N4.00	A/N 20 week examination
26554	62N6.00	A/N 28 week examination
31250	6283	A/N care: primip. < 17 years
30209	ZV27000	[V]Single live birth
20573	Q48D000	[X]Fresh stillbirth
11966	ZV27.11	[V]Live birth
8906	ZV27.12	[V]Stillbirth
41253	7F11	Childbirth operations
10719	6331	Single live birth
28726	7F19100	Water birth delivery
58978	Q20y.00	Other specified birth trauma
37884	Z254D00	Face to pubes birth
72025	ZV3zz00	[V]Unspecified birth, NOS
8776	Q48D.00	[X] Stillbirth
5253	633a.00	Birth of child
31203	6332	Single stillbirth
13287	63311	Livebirth
17354	63313	Triplet birth
1825	63314	Twin birth
1214	6311	Home birth
2353	63E2.00	Normal birth
974	Q4z15	Stillbirth NEC
110211	633C.00	Intrapartum stillbirth
70813	ZV27500	[V]Other multiple birth, all live born
37878	Z254E11	Multiple birth delivery
42324	L34z.00	Vulval/perineal trauma during delivery NOS
55124	L39yz00	Other complications of labour and delivery NOS

27254	0026.00	Fature and acceptance of the stand by the standard of the stan
27351	Q036.00	Fetus or neonate affected by precipitate delivery
43918	L340400	Fourchette tear during delivery
33915	L213.00	Multiple delivery
5213	7F16400	Low forceps cephalic delivery
25223	L396.00	Vacuum extractor delivery
57957	7F1Ay00	Other specified other method of delivery
7670	L398z00	Caesarean delivery NOS
24243	L263400	Labour and delivery complic by meconium in amniotic fluid
15828	14Y4.00	Born by breech delivery
69780	Lyu5100	[X]Other and unspecified forceps delivery
62862	L342200	Third degree perineal tear during delivery with p/n problem
68752	Z253300	Normal rate of delivery
33773	7F19y00	Other specified normal delivery
30775	62B8.00	Midwife unit delivery booking
6452	L395.00	Forceps delivery
239	L2011	Spontaneous vaginal delivery
95858	L34y100	Other vulval/perineal trauma during delivery- delivered
29070	7F15000	Spontaneous breech delivery
19605	L341z00	Second degree perineal tear during delivery NOS
57945	7F17200	Vacuum delivery before full dilation of cervix
72022	L343000	Fourth degree perineal tear during delivery, unspecified
19607	L344000	Unspecified perineal laceration during delivery, unspecified
3365	L142.11	Premature delivery
27914	62V00	Delivery place planned
90885	Lyu4900	[X]Labour+delivery complicated by other cord entanglement
56310	Z2500	Delivery observations
12052	Z257.00	Delivery normal
11532	7F14.00	Breech extraction delivery
13164	62BZ.00	Delivery booking - place NOS
61212	L34y.00	Other vulval and perineal trauma during delivery
61077	7F16200	Mid forceps cephalic delivery with rotation
5866	7F100	Induction and delivery operations
65940	7F16500	Trial of forceps delivery
19608	L340z00	First degree perineal tear during delivery NOS
52875	L398000	Caesarean delivery unspecified
83535	Lyu5000	[X]Other single spontaneous delivery
47625	Z22C200	Estimated date of delivery from last normal period
17744	7F13100	Lower uterine segment caesarean delivery NEC
15073	7F13y00	Other specified other caesarean delivery
9800	L398300	Delivery by elective caesarean section
37699	L396z00	Vacuum extractor delivery NOS
72021	L343100	Fourth degree perineal tear during delivery - delivered
107136	Q031.11	Fetus affected by malpresentation during delivery
17684	L395.11	Keilland's forceps delivery
20425	L395.12	Neville - Barnes forceps delivery

4780	L2000	Normal delivery in a completely normal case
5868	Ly000	Spontaneous vertex delivery
106113	Lyu5800	[X]Multiple delivery, unspecified
62406	L323000	Delayed delivery second twin unspecified
61540	Z212100	Delivery place planned
47157	L34zz00	Vulval/perineal trauma during delivery NOS
58176	62C2.00	Full stay delivery booking
32283	Z212200	Home delivery planned
106808	L34z200	Vulval/perineal trauma during delivery NOS with p/n problem
740	7F12.00	Elective caesarean delivery
111579	Z263300	Condition of membranes at delivery
34102	Z262700	Incomplete placenta at delivery
21554	7F16900	Kielland forceps cephalic delivery with rotation
31254	L340100	First degree perineal tear during delivery - delivered
23394	7F16300	Mid forceps cephalic delivery NEC
54591	7F14z00	Breech extraction delivery NOS
3085	7F12z00	Elective caesarean delivery NOS
22491	Ly100	Spontaneous breech delivery
19609	L340600	Vaginal tear during delivery
39168	L342100	Third degree perineal tear during delivery - delivered
44235	L296.00	Vaginal delivery following previous caesarean section
40706	L344z00	Unspecified perineal laceration during delivery NOS
27993	62V0.00	Home delivery planned
58721	L20z.00	Normal delivery in completely normal case NOS
33477	L398100	Caesarean delivery - delivered
27963	L323.00	Delayed delivery of second twin, triplet etc
37509	7F1A300	Drainage of hydrocephalus of fetus to facilitate delivery
30806	L34yz00	Other vulval/perineal trauma during delivery NOS
30373	Z22C100	Estimated date of delivery from last period
42572	L323100	Delayed delivery second twin - delivered
15514	7F13000	Upper uterine segment caesarean delivery NEC
47546	7F12y00	Other specified elective caesarean delivery
86399	7F17y00	Other specified vacuum delivery
13352	L3400	Trauma to perineum and vulva during delivery
49446	L396100	Vacuum extractor delivery - delivered
15256	L344.00	Unspecified perineal laceration during delivery
37054	L341100	Second degree perineal tear during delivery - delivered
3108	7F1B000	Episiotomy to facilitate delivery
47863	Lyu5200	[X]Other single delivery by caesarean section
9160	Z257100	Spontaneous vertex delivery
58844	L396000	Vacuum extractor delivery unspecified
57488	L34z100	Vulval/perineal trauma during delivery NOS - delivered
27731	L345.12	Vulval and perineal haematoma during delivery
104872	L143100	Premature labour with premature delivery
42275	L395300	Mid-cavity forceps delivery

40876	L342z00	Third degree perineal tear during delivery NOS
93273	L39z100	Complications of labour and delivery NOS - delivered
42755	L387.00	Spinal/epidural anesth-induced headache dur labour/delivery
57789	L395400	Delivery by combination of forceps and vacuum extractor
19603	L340000	First degree perineal tear during delivery, unspecified
4786	L213200	Multiple delivery, all by caesarean section
20002	7F16000	High forceps cephalic delivery with rotation
66501	L39zz00	Complications of labour and delivery NOS
34333	Z262711	Incomplete delivery of placenta
19602	L341000	Second degree perineal tear during delivery, unspecified
39866	7F1A200	Cleidotomy of fetus to facilitate delivery
30805	L34y000	Other vulval/perineal trauma during delivery, unspecified
11530	Z254900	Vaginal delivery
67489	L34z000	Vulval/perineal trauma during delivery NOS unspec
4638	7F13.00	Other caesarean delivery
40744	Z254A00	Abnormal delivery
25157	L142100	Early onset of delivery - delivered
17704	L395.13	Simpson's forceps delivery
39573	Z265900	Umbilical cord not around baby's neck at delivery
5033	7F16100	High forceps cephalic delivery NEC
26549	62B1.00	Delivery: no place booked
50293	7F1z.00	Induction and delivery operations NOS
67862	L3900	Other complications of labour and delivery NEC
63277	L393.00	Acute renal failure following labour and delivery
32380	L3412	Vulval delivery trauma
23866	7F1B100	Symphysiotomy to facilitate delivery
618	L398400	Delivery by emergency caesarean section
66315	Lyu5500	[X]Other specified assisted single delivery
23791	L38A.00	Failed or difficult intubation during labour and delivery
99608	7F1Bz00	Other operation to facilitate delivery NOS
98749	7F1B400	Incision of cervix to facilitate delivery
30274	L395200	Low forceps delivery
35190	7F13z00	Other caesarean delivery NOS
40710	L395z00	Forceps delivery NOS
26712	L340300	Labial tear during delivery
62789	Q031.00	Fetus/neonate affected by malposition/disproportion-delivery
2624	Q033.00	Fetus or neonate affected by vacuum extraction delivery
19599	L340.00	First degree perineal tear during delivery
11650	L342.00	Third degree perineal tear during delivery
51736	7F17100	Low vacuum delivery
36703	L345.00	Vulval and perineal haematoma during delivery
2458	7F17.00	Vacuum delivery
22975	62B3.00	G.P. unit delivery booking
32988	62B5.00	Private home delivery booking
49485	L263600	Labour+delivery complicatd by biochem evidence/fetal stress

r	5522	L3z00	Complications of labour and delivery NOS
	3319	Lyu4.00	[X]Complications of labour and delivery
	4789	Q030.11	Fetus affected by breech delivery
	4411	Z254300	Delivered by mid-cavity forceps delivery
	8230	Z254800	Deliveries by spontaneous breech delivery
	6137	L142z00	Early onset of delivery NOS
	9941	L142200	Early onset of delivery unspecified
	0738	7F19000	Manually assisted vaginal delivery
	4628	7F19000 7F16600	Failed forceps delivery
			·
	3480	7F16y00	Other specified forceps cephalic delivery
	7245	L345000	Vulval and perineal haematoma during delivery, unspecified
	3959	633Z.00	Outcome of delivery NOS
	0615	L345z00	Vulval and perineal haematoma during delivery NOS
	0953	Z253211	Precipitate delivery
	3572	L3y00	Other specified complications of labour or delivery
	9668	7F12100	Elective lower uterine segment caesarean delivery
	9791	Z257.15	ND - Normal delivery
	9625	L263300	Labour and delivery complicated by fetal heart rate anomaly
	8861	L398500	Delivery by caesarean hysterectomy
	9733	L388.00	Cardiac comps of anaesthesia during labour and delivery
	5480	14Y3.00	Born by normal vaginal delivery
	8059	Lyu5400	[X]Other manipulation-assisted delivery
	9971	Z253100	Slow rate of delivery
	1226	ZV27y00	[V]Other specified outcome of delivery
105	5276	7F14000	Breech extraction delivery with version
103	3890	1514000	Estimated date of delivery from last period
101	1229	Z255A00	Observation of delivery push in labour
50	0675	L395100	Forceps delivery - delivered
44	4472	L39y.00	Other complications of labour and delivery
48	8742	Z254C00	Face delivery
33	3884	L213000	Multiple delivery, all spontaneous
14	4892	7F17z00	Vacuum delivery NOS
64	4464	7F15z00	Other breech delivery NOS
13	3163	62B00	Delivery booking place
105	5419	7F17000	High vacuum delivery
8	8879	1514.12	Estimated date of delivery
	720	L398.00	Caesarean delivery
29	9885	L300	Complications occurring during labour and delivery
14	4727	14Y1.00	Born by forceps delivery
15	5675	14Y5.00	Born by ventouse delivery
	167	7F19.00	Normal delivery
32	2991	62C1.00	Short stay delivery booking
	688	7F17.11	Ventouse delivery
	463	L222.12	Breech delivery
(	6141	L396.11	Ventouse delivery

28903	Z254200	Delivered by low forceps delivery
100597	L39y100	Other complications of labour and delivery - delivered
12014	ZV27.00	[V]Outcome of delivery
61259	7F12000	Elective upper uterine segment caesarean delivery
105032	L143000	Premature labour without delivery
42885	Z254.00	Observation of pattern of delivery
107557	63D7.00	Complete placenta at delivery
37254	Q030.00	Fetus or neonate affected by breech delivery and extraction
3078	Q032.00	Fetus or neonate affected by forceps delivery
19600	L341.00	Second degree perineal tear during delivery
39576	L343.00	Fourth degree perineal tear during delivery
31280	L340500	Vulval tear during delivery
25545	Z212300	Delivery place booked
70242	7F16700	Barton forceps cephalic delivery with rotation
71057	L345100	Vulval and perineal haematoma during delivery - delivered
1279	7F16.00	Forceps cephalic delivery
22976	62B2.00	Home delivery booked
41414	62B6.00	Delivery booking place changed
104873	L143.00	Premature labour and delivery
50847	L398600	Caesarean delivery following previous Caesarean delivery
18287	7F22500	Normal delivery of placenta
19604	L342000	Third degree perineal tear during delivery, unspecified
2943	L222.11	Assisted breech delivery
96089	Z253200	Rapid rate of delivery
8967	7F19z00	Normal delivery NOS
51065	62CZ.00	Delivery booking - stay NOS
33378	7F15.00	Other breech delivery
53937	L395000	Forceps delivery unspecified
90497	L39z400	Complications of labour and delivery NOS with p/n problem
23994	7F15100	Assisted breech delivery
60256	Z254B00	Brow delivery
60538	L213100	Multiple delivery, all by forceps and vacuum extractor
15926	7F15y00	Other specified other breech delivery
95780	Z262600	Complete placenta at delivery
65702	L3800	Complications of anaesthesia during labour and delivery
14686	7F16z00	Forceps cephalic delivery NOS
67052	L344100	Unspecified perineal laceration during delivery - delivered
15167	L142.00	Early onset of delivery
11194	Z257.12	Spontaneous vaginal delivery
25681	Z257.13	SVD - Spontaneous vaginal delivery
9383	Z257.11	Normal delivery
17492	Z257.14	FTND - Full term normal delivery
31780	L222.13	Spontaneous breech delivery
22498	Z253.12	Rate of delivery
52151	Lyu4800	[X]Labour+delivery complicat/oth evidence of fetal distress

39319 8HE7.00 Discharged from hospital within 6 hours of delivery 73048 7F14y00 Other specified breech extraction delivery 109452 7F1By00 Other specified other operation to facilitate delivery 69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
109452 7F1By00 Other specified other operation to facilitate delivery 69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered
69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered
57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered
53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered
41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered
27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered
41588 L112200 Placental abruption - not delivered
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3364 L126300 Eclampsia - not delivered
65759 L244300 Other uterine/pelvic floor abnormal - baby not yet delivered
62880 L110200 Placenta praevia without haemorrhage - not delivered
69002 L11y200 Other antepartum haemorrhage - not delivered
67447 L125300 Severe pre-eclampsia - not delivered
64752 L111200 Placenta praevia with haemorrhage - not delivered
53160 L127300 Pre-eclampsia or eclampsia with hypertension - not delivered
31617 L130200 Mild hyperemesis-not delivered
57852 L100200 Threatened abortion - not delivered
64298 L141100 Other threatened labour - not delivered
54082 L169300 Herpes gestationis - not delivered
48830 L140100 Threatened premature labour - not delivered
54576 Z252.00 Mother not delivered
2549 L222.00 Breech presentation
13288 2722 O/E - breech presentation
46298 L222z00 Breech presentation NOS
55359 Q017100 Fetus/neonate affected by breech presentation before labour
56867 L300300 Obstructed labour due to breech presentation
66786 L397z00 Breech extraction NOS
48516 Z254400 Deliveries by breech extraction
4955 L397.00 Breech extraction
66106 L397000 Breech extraction unspecified
15610 7F06300 External version of breech
1534 7F14100 Forceps to aftercoming head (breech)
66307 L222000 Breech presentation unspecified
16097 Q214z00 Liveborn with unspecified fetal distress NOS
33258 L512.00 Maternal care for diminished fetal movements
67883 L514.00 Maternal care for poor fetal growth
50733 L263.12 Fetal bradycardia
23009 Q213.11 Fetal distress in labour - liveborn
48463 Q410.00 Fetal blood loss
23565 L2500 Known or suspected fetal abnormality
43428 ZV28400 [V]Screening for fetal growth retardation using ultrasonics
5479 Q212.00 Liveborn with prelabour fetal distress
106201 Qyu5400 [X]Other specified fetal and neonatal haemorrhages
31481 7F04300 Electrode applied to fetal scalp

107512 Q102.11 Fetal malnutrition without mention of 'light for dates' 96711 Q408200 Eschericha coli intra-amniotic fetal infection 98261 7F27y00 OS non routine obstetric scan for fetal observations 43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation 64959 7F01100 Fetoscopic examination of fetus and sampling of fetal bloo	od
98261 7F27y00 OS non routine obstetric scan for fetal observations 43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od
43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od
19590 62O1.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od
48576 L22y.00 Other fetal malposition and malpresentation	od
	od
64959   /FULLUU   Fetoscopic examination of fetus and sampling of fetal ploo	od
36640 L265300 Maternal care for poor fetal growth	
59566 Q41yz00 Fetal or newborn haemorrhage NOS	
72837 2763 O/E - fetal heart 40-80	
62654 4H72.00 Amniotic fetal cell abnormal	
28977 L237.00 Other fetal abnormality causing disproportion	
46514 L263700 Maternal care for fetal hypoxia	
60301 7P0H500 Fetal echocardiography	
27801 2755 O/E - fetal movemnt.diminished	
67438 Q40y000 Intrauterine fetal sepsis, unspecified	
63905 Lyu3A00 [X]Maternal care/known or suspected fetal problem,unspe	
46784 Q023200 Fetus/neonate affected by materno-fetal transplacental transplacent	ans
50281 Q213z00 Liveborn with labour fetal distress NOS	
25153 2753 O/E - fetal movements felt	
103893 7F27400 Fetal ascites scan	
66619 Q023011 Fetus/neonate affected by feto-fetal transplacental transfe	us
101225 BBK3400 [M]Fetal rhabdomyoma	
104765 Q102.00 Fetal malnutrition, no mention light or small for gest age	
96669 L22z.00 Fetal malposition and malpresentation NOS	
55071 Z271C00 Fetal heart baseline pattern	
22815 27500 O/E - fetal movements	
69819 274Z.00 O/E - fetal station NOS	
56744 Q1011 Fetal malnutrition	
9164 58411 Fetal U-S scan	
66175 Q45z.00 Fetal or newborn blood disorder NOS	
102019 Q410600 Fetal haemorrhage into mother's circulation	
104829 L260000 Fetal-maternal haemorrhage unspecified	
97471 Q212z00 Liveborn with prelabour fetal distress NOS	
100323 4H700 Amniotic fetal cell study	
73393 4H71.00 Amniotic fetal cell study: NAD	
53296 42YG.00 Fetal cell test	
48798 Q4500 Fetal and newborn blood disorders	
21893 L510.00 Maternal care for hydrops fetalis	
60774 Z271100 Fetal heart acceleration	
62898 2768 O/E - fetal heart 180-200	
95881 2762 O/E - fetal heart < 40	
70856 2764 O/E - fetal heart 80-100	
67186 272Z.00 O/E - fetal presentation NOS	
38608 L250.11 Suspect fetal anencephaly	

8846	L250.13	Suspect fetal spina bifida
55152	Q408.00	Intra-amniotic fetal infection
104218	L300000	Obstructed labour due to fetal malposition unspecified
99494	Q455000	Congenital anaemia from fetal blood loss
91908	7F27200	Fetal biometry
95754	Q408z00	Intra-amniotic fetal infection NOS
62629	Q41yy00	Other specified fetal or newborn haemorrhage
95064	Q41y.00	Other fetal and newborn haemorrhage
19575	Q10z.00	Fetal growth retardation NOS
31033	7F03100	Percutaneous insertion of fetal pleuroamniotic shunt
53241	Q214100	Liveborn with fetal hypoxia, unspecified
26707	2766	O/E - fetal heart 120-160
38846	Z271D00	Normal fetal heart baseline pattern
44071	Q479.00	Non-immune hydrops fetalis
64335	L263000	Fetal distress unspecified
23590	L300.00	Obstructed labour due to fetal malposition
102073	Q410z00	Fetal blood loss NOS
53687	2752	O/E - fetal movements seen
42093	5846	U-S scan - fetal maturity
3620	Q214.00	Liveborn with fetal distress, unspecified
63024	2726	O/E -fetal presentation unsure
104845	Q410700	Fetal exsanguination
59679	276Z.00	O/E - fetal heart NOS
100297	L22zz00	Fetal malposition and malpresentation NOS
34777	Q1000	Slow fetal growth and fetal malnutrition
98499	L25z300	Maternal care for suspect fetal abnormal and damage, unspec
96222	L25z400	Maternal care for fetal abnormality and damage, unspecified
41908	Q3z00	Fetal or newborn respiratory problems NOS
28184	Q436z00	Unspecified fetal or neonatal jaundice NOS
11589	7F25100	Fetal heart monitoring in labour
35680	Q423.00	Hydrops fetalis due to isoimmunisation
45439	Lyu3900	[X]Maternal care/oth spcf known or suspected fetal problems
12013	L268000	Reduced fetal movements
19581	Q436.00	Fetal and neonatal jaundice, unspecified
32184	L267500	Other fetal problems
68996	2765	O/E - fetal heart 100-120
62903	2767	O/E - fetal heart 160-180
70845	Z271E00	Sinusoidal pattern of fetal heart
52308	Q211.00	Fetal death due to labour anoxia
101119	2769	O/E - fetal heart > 200
27868	2761	O/E - fetal heart not heard
39218	5858200	Ultrasonic doppler for fetal heart sounds
2437	2751	O/E - no fetal movements
13276	L263.00	Fetal distress - affecting management
49294	L2600	Other fetal and placental problems

41919	5849	U-S scan - fetal presentation
72159	5845	U-S scan - fetal cephalometry
91933	Q410000	Fetal blood loss, unspecified
85992	7F27.00	Non routine obstetric scan for fetal observations
95538	Z271B00	Poor baseline variability in fetal heart rate
36195	L268.00	Other fetal problems
8147	L264.11	Fetal death in utero
94785	9Nk3.00	Seen in fetal medicine clinic
91477	7F03300	Percutaneous insertion of fetal pleural drain
19720	7F25.11	Fetal monitoring
983	Q11	Fetal and neonatal conditions
26710	27200	O/E - fetal presentation
45963	5847	U-S scan - fetal abnormality
46413	L250.12	Suspect fetal hydrocephaly
48801	Q4100	Fetal and neonatal haemorrhage
95875	7F27z00	Non routine obstetric scan for fetal observations NOS
39868	Q420.11	Erythroblastosis fetalis
	Q420.11 Q3100	·
50201	Z271900	Other fetal and newborn respiratory conditions
55607		Fetal heart rate variability  Fetal heart deceleration
47149	Z271F00	
102894	L260z00	Fetal-maternal haemorrhage NOS
91773	Z271A00	Good baseline variability in fetal heart rate
46502	Q2112	Labour fetal anoxia
46431	7F04100	Percutaneous sampling of fetal blood
9501	7F25000	Fetal heart monitoring NEC
19582	Q493.00	Persistent fetal circulation
7681	27600	O/E - fetal heart heard
62316	L5100	Maternal care for other known or suspected fetal problems
	L263.13	Fetal tachycardia
54004	7F03000	Percutaneous insertion of fetal vesicoamniotic shunt
34132	Q212.11	Fetal distress before labour - liveborn
42322	Q213.00	Liveborn with labour fetal distress
20320	Q210.00	Fetal death due to prelabour anoxia
107794	4H7Z.00	Amniotic fetal cell study NOS
106136	Q410200	Fetal placental blood loss
66335	L260.00	Fetal-maternal haemorrhage
53863	L263z00	Fetal distress NOS
41102	L263500	Lab+del comp fetal ht rate anom wth meconium in amnio fluid
35214	Z271912	FHRV - Fetal heart rate variability
26401	Q214.11	Fetal distress, unspecified when, liveborn
54687	L51X.00	Maternal care/known or suspected fetal problem,unspecifd
37752	6203.00	Fetal maturity: dates = size
55493	6202.00	Fetal movements seen
52857	275Z.00	O/E - fetal movements NOS
110134	Z271G00	Early fetal heart deceleration

13299	Q42X.00	Hydrops fetalis due to other+unspcfd haemolytic disease
100342	PK81.00	Fetal hydantoin syndrome
50913	P7z11	Fetal circulation
51372	Q311z11	Pneumonitis due to fetal aspiration
97985	Z271H00	Late fetal heart deceleration
95649	L263.11	Fetal acidosis
48784	6204.00	Fetal maturity: dates not=size
66428	Q026.11	
		Fetus affected by cord problems
1017	Q034.00	Fetus or neonate affected by caesarean section
97885	7F01000	Fetoscopic examination of fetus and biopsy of fetus
47151	L220.00	Fetus - unstable lie
97186	7F03z00	Therapeutic percutaneous operation on fetus NOS
26685	Q035600	Fetus/neonate affected by other maternal opiates in lab/del
62776	Q037.11	Fetus or neonate affected by hypertonic labour
5538	Q024.00	Fetus or neonate affected by prolapsed cord
91659	Q022.00	Fetus/neonate affected by placental abnormality NEC
105625	Q027.00	Fetus or neonate affected by chorioamnionitis
72118	L257.00	Fetus with damage due to intra-uterine contraceptive device
52007	L255.00	Fetus with drug damage
73892	Q00z.00	Fetus or neonate affected by maternal medical problem NOS
67326	Q04X.00	Fetus+newborn affected/other maternal noxious influences
69257	L25y000	Fetus with other damage NEC, unspecified
71987	Q007A00	Fetus/neonate affect-plac./breast transf hypoglycaemic agent
63290	Q101.00	Fetus small-for-dates with signs of malnutrition
52669	Q031200	Fetus/neonate affect persistent occip-posterior - labour/del
61063	L25zz00	Fetus with damage NOS
99136	Q021200	Fetus/neonate affected by placental damage-amniocentesis
45440	7F00.00	Therapeutic fetoscopic operations on fetus
30979	7N61200	[SO]Fetus
69435	7F02z00	Selective destruction of fetus NOS
61452	7F0z.00	Fetus and gravid uterus operations NOS
46724	Q022200	Fetus or neonate affected by placental insufficiency
105097	L250300	Maternal care for suspected CNS malformation in fetus
52633	Q021111	Fetus affected by placental abruption
36894	Q100.11	Fetus small-for-dates (SFD), without mention of malnutrition
94808	Q017600	Fetus or neonate affected by face presentation before labour
103741	7F2A211	Doppler ultrasound scan of middle cerebral artery of fetus
51177	L500	Maternal care for fetus
106508	7F03600	Percutaneous laser ablation of lesion of fetus
44173	5391	Obstetric X-ray - fetus
38864	L160.00	Papyraceous fetus
48156	Q025000	Fetus or neonate affected by cord round neck
59236	L25z.00	Fetus with damage NOS
53074	L251z00	Fetus with chromosomal abnormality NOS
66699	PK83.00	Fetus and newborn affected by maternal use of alcohol

66574	0 5000	[Mail:: : 1/4: M
66571	Qyu5200	[X]Oth intracranial(nontraumatic)haemorrhages/fetus+newborn
31923	Q021300	Fetus/neonate affected by placental damage-caesarean section
72366	7F02y00	Other specified selective destruction of fetus
62819	7F04z00	Diagnostic percutaneous examination of fetus NOS
72973	Qyu5500	[X]Other haemolytic diseases of fetus and newborn
45653	Q025.00	Fetus or neonate affected by other cord compression
23483	Q023.00	Fetus or neonate affected by placental transfusion syndrome
97240	Q027100	Fetus or neonate affected by amnionitis
72834	Q41z.00	Haemorrhage of fetus and newborn NOS
52950	Q013.00	Fetus or neonate affected by maternal polyhydramnios
41937	5848	U-S scan - multiple fetus
63077	Q00y.00	Fetus or neonate affected by other maternal condition
34695	L2211	Malpresentation of fetus
15495	Q42z.00	Haemolytic disease of fetus/newborn due isoimmunisation NOS
22032	Q100.00	Fetus small-for-dates, without mention of malnutrition
43005	Q200012	Intracranial haemorrhage in fetus or newborn
36559	Q200011	Intracerebral haemorrhage in fetus or newborn
71279	L250000	Fetus with central nervous system malformation unspecified
40870	Q020.00	Fetus or neonate affected by placenta previa
85238	Qyu5F00	[X]Intracranial nontraumatic haemorrhage fetus newborn unsp
106959	Qyu0200	[X]Fetus and newborn affected by other maternal conditions
46283	7F000	Fetus and gravid uterus operations
682	Q4200	Haemolytic disease of fetus/newborn due to isoimmunisation
27334	Q026z00	Fetus or neonate affected by cord problems NOS
50530	7F0y.00	Other specified operations on fetus or gravid uterus
28487	Q13	Fetus and neonate conditions
71910	Q037200	Fetus or neonate affected by hypertonic uterine dysfunction
70737	L25z000	Fetus with damage NOS, unspecified
56697	Q041.00	Fetus and newborn afect by mat use of nutritional chem subs
54726	L251400	Maternal care for chromosomal abnormality in fetus
101599	L253300	Maternal care for damage to fetus from maternal rubella
101893	L251300	Maternal care for suspected chromosomal abnormality in fetus
66526	Q035200	Fetus/neonate affected by mat general anaesthesia - lab/del
99890	Q021400	Fetus/neonate affect by placental damage-surgical induction
44479	Q200511	Intracerebral haematoma in fetus or newborn
47219	Q035300	Fetus/neonate affected by mat epidural anaesth - labour/del
52526	Q200600	Extradural haemorrhage in fetus or newborn
105735	Q007B00	Fetus/neonate affected-plac./breast transfer endocrine agent
21382	27B00	O/E - viable fetus
100241	L25y.00	Fetus with other damage NEC
26840	Q017500	Fetus or neonate affected by unstable lie before labour
95128	9d06.00	Fetus
26631	Q000.00	Fetus or neonate affected by maternal hypertensive disease
73317	L252.00	Fetus with hereditary disease
48583	Q031600	Fetus/neonate affected by disproportion during labour/delive

71627	0017.11	Catura affordad by madiguacoutation
71637	Q017.11	Fetus affected by malpresentation
71495	L250z00	Fetus with central nervous system malformation NOS
60841	Q013.11	Fetus affected by hydramnios
55149	Qyu0100	[X]Fetus+newborn affectd/oth medical procedure on mother,NEC
100666	L252z00	Fetus with hereditary disease NOS
66748	Qyu0C00	[X]Fetus+newborn affected/other maternal noxious influences
43958	Q023000	Fetus/neonate affected by twin-to-twin transplacental transf
23617	L2200	Malposition and malpresentation of fetus
68016	L253.11	Fetus with suspected rubella damage via mother
65716	Q011.00	Fetus/neonate affected maternal premature rupture membrane
20721	7F011	Fetus operations
59580	7F012	Fetus & gravid uterus ops
72558	Q016.00	Fetus or neonate affected by maternal death
38043	Q200500	Cerebral haematoma in fetus or newborn
52299	Q007200	Fetus/neonate affected by placental/breast transfer narcotic
68169	Q021.00	Fetus/neonate affect other placental separation/haemorrhage
37055	Q035500	Fetus/neonate affected by maternal pethidine in labour/deliv
16963	7F00000	Fetoscopic blood transfusion of fetus
61596	Q017300	Fetus or neonate affected by oblique lie before labour
55761	Q021500	Fetus or neonate affected by premature placental separation
44644	L250.00	Fetus with central nervous system malformation
58187	Lyu4500	[X]Obstructed labour due to other abnormalities of fetus
108080	Qyu0.00	[X]Fetus/newborn affected by maternal factors+complications
91434	L251.12	Suspect mongol fetus
42661	Q021011	Fetus affected by APH - antepartum haemorrhage
63309	Q037312	Fetus/neonate affected by uterine dysfunction in labour/del
95638	Q101.11	Fetus small-for-dates (SFD) with signs of malnutrition
69015	L251.11	Suspect cystic fibrosis fetus
64430	Q007C00	Fetus/neonate affected-plac./breast transfer addictive drug
59171	Q017400	Fetus or neonate affected by transverse lie before labour
57828	7F03200	Percutaneous blood transfusion of fetus
24701	2754	O/E - fetus very active
72833	Q02z.00	Fetus/neonate affected by abnormalities chorion/amnion NOS
104029	Qyu0B00	[X]Fetus and newborn affected by other maternal medication
70901	Q023100	Fetus/neonate affected by feto-maternal transplacental trans
7103	Q000.11	Fetus affected by maternal toxaemia
109421	Q03y400	Fetus or neonate affected by long labour
20544	Q031611	Fetus/neonate affected-cephalopelvic disproportion lab./del.
99563	27A11	O/E - VE - descent of fetus
50555	Q012.00	Fetus or neonate affected by maternal oligohydramnios
101603	Q010.00	Fetus or neonate affected by maternal incompetent cervix
72348	Q007800	Fetus/neonate affected-plac./breast transfer chemotherapy
30692	L251.00	Fetus with chromosomal abnormality
45856	Q002.00	Fetus or neonate affected by maternal infections
49959	Q005.00	Fetus or neonate affected by maternal injury

93329	Q007400	Fatur / nagnata affacted placental / broast transfer anti-infact
72729	L253.00	Fetus/neonate affected-placental/breast transfer anti-infect  Fetus with viral damage via mother
63648	Q021000	Fetus/neonate affected by antepartum haemorrhage unspecified
96742	Q021000 Q007300	Fetus/neonate affected by affectal breast transfer hallucinogen
68851	Q007300 Q0000	Fetus or neonate affected by maternal medical problems
		Maternal care for CNS malformation in fetus
54690	L250400	
108565	Qyu0700	[X]Fetus+newborn affectd/oth+unspcfd conditns/umbilical cord [X]Digestive system disorders of fetus and newborn
108626	Qyu7.00	
38660	Q300	Fetus and newborn respiratory conditions
42226	Q017200	Fetus or neonate affected by external version before labour
71951	Q037300	Fetus or neonate affected by uterine inertia or dysfunction
71552	L235.00	Large fetus causing disproportion
67572	Q031000	Fetus/neonate affected by mat bony pelvis abn in labour/del
65059	Qyu5.00	[X]Haemorrhagic+haematolog disorders of fetus and newborn
68687	L266300	Suspected macroscopic fetus
52726	Q031500	Fetus/neonate affected by face presentation during labour/de
27447	Q031z00	Fetus/neonate affected by malposition/disproportion NOS
54311	Q0200	Fetus/neonate affected by complic of placenta/cord/membrane
100074	7F01.00	Diagnostic endoscopic examination of fetus using fetoscope
101984	7F03.00	Therapeutic percutaneous operations on fetus
70393	7F04.00	Diagnostic percutaneous examination of fetus
102078	Q027z00	Fetus or neonate affected by chorioamnionitis
58773	Q026.00	Fetus or neonate affected by other specified cord problems
102535	7F00.12	Therapeutic foetoscopic operations on fetus
35777	Q417.00	Intracranial nontraumatic haemorrhage of fetus and newborn
31496	Q007900	Fetus/neonate affected-plac./breast transfer uterine depress
107153	Q007x00	Fetus/neonate affected - placental/breast transfer toxic NEC
40376	PH11.00	Harlequin fetus
56666	L256.00	Fetus with radiation damage
73323	L254.00	Fetus with damage due to other maternal disease
73373	Q001.00	Fetus or neonate affected by maternal renal/urinary disease
96331	L258.00	Fetus with cardiovascular abnormality
105261	Q007500	Fetus/neonate affected-placental/breast transfer immune sera
57651	7F02.00	Selective destruction of fetus
97611	7F03400	Percutaneous insertion of bladder drain to fetus
108731	7F03y00	Other specified therapeutic percutaneous operation on fetus
70074	Q3y00	Other specified respiratory problems in fetus or neonate
69814	Q022000	Fetus or neonate affected by placental dysfunction
69533	L257.12	Fetus with damage due to intra-uterine contraceptive device
95909	Q026400	Fetus or neonate affected by vasa praevia of cord
55410	L251000	Fetus with chromosomal abnormality unspecified
37180	27211	O/E - lie of fetus
69076	Q031300	Fetus/neonate affected by shoulder presentation - labour/del
61640	L252000	Fetus with hereditary disease unspecified
96614	Q035100	Fetus/neonate affected by mat analgesic agent in labour/del

4213 QO21100 Fetus or neonate affected by abruptio placentae 104989 QO18.00 Fetus or neonate affected by maternal postnatal depression 70739 125y200 Fetus with other damage NEC NOS 42384 QO31400 Fetus or neonate affected by transverse lie in labour/deliv 72757 QO07100 Fetus/neonate affected by placental/breast transfer alcohol 51296 QO3y200 Fetus or neonate affected by placental/breast transfer alcohol 51296 QO3y200 Fetus or neonate affected by abnormal uterine contractions 79700 QO37.00 Fetus or neonate affected by abnormal uterine contractions 97745 QO07600 Fetus/neonate affected by abnormal uterine contractions 97745 QO07600 Fetus/neonate affected by abnormal uterine contractions 97745 QO0700 Fetus/neonate affected by obstructed labour NEC 99473 QO07.00 Fetus/neonate affected by obstructed labour NEC 99473 QO07.00 Fetus/neonate affected by poison transferred placenta/breast 50940 S391.11 Fetus - abdominal X-ray, obst. 97233 QO2700 Fetus or neonate affected by knot in cord 68577 QO37100 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus affected by maternal death 107075 L043:11 Incomplete inevitable miscarriage with unspecified comp 117625 L044.11 Incomplete inevitable miscarriage with unspecified comp 117625 L044:11 Incomplete inevitable miscarriage without complication 107604 L045:211 Complete inevitable miscarriage complicated by embolism 108742 L045:11 Inevitable miscarriage complicated by embolism 108742 L045:11 Inevitable miscarriage without complication 109288 L044y11 Incomplete inevitable miscarriage with other specified comp 109289 L043:11 Unspecified inevitable miscarriage with OS complication 11734 L043:11 Unspecified inevitable miscarriage with OS complication 11734 L043:11 Unspecified inevitable miscarriage with other specified comp 11739 L043:11 Unspecified inevitable miscarriage with other specified comp 11739 L043:11 Unspecified inevitable miscarriage with other specified comp 11739 L043:11 Unspecified inevitable misc		_	
125yz00   Fetus with other damage NEC NOS	42213	Q021100	Fetus or neonate affected by abruptio placentae
42384 Q031400 Fetus or neonate affected by transverse lie in labour/deliv 72757 Q007100 Fetus/neonate affected by placental/breast transfer alcohol 51296 Q03y200 Fetus or neonate affected by induction of labour 111265 Qvu6.00 [X]Transitory endocr & metab disord specif to fetus/newborn 59070 Q037.00 Fetus or neonate affected by abnormal uterine contractions 97745 Q007600 Fetus/neonate affected by abnormal uterine contractions 97745 Q007600 Fetus/neonate affected by abnormal uterine contractions 97824 Q031211 Fetus or neonate affected by obstructed labour NEC 98473 Q007.00 Fetus/neonate affected by obstructed labour NEC 99473 Q007.00 Fetus/neonate affected by poison transferred placenta/breast 50940 5391.11 Fetus - abdominal X-ray, obst. 72836 Q007w00 Fetus/neonate affected by knot in cord 68577 Q037100 Fetus or neonate affected by knot in cord 68577 Q037100 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus affected by maternal death 107075 L043211 Unspecified inevitable miscarriage without complication 94976 L044.11 Incomplete inevitable miscarriage without complication 12241 L0211 Missed miscarriage incomp 55404 L045211 Complete inevitable miscarriage complicated by embolism 12241 L0211 Missed miscarriage 107604 L045211 Complete inevitable miscarriage without complication 12241 L0211 Incomplete inevitable miscarriage without complication 1233 L045.11 Incomplete inevitable miscarriage with unspecified comp 109228 L043y11 Unspecified inevitable miscarriage with unspecified comp 10928 L043y11 Incomplete inevitable miscarriage with unspecified comp 11234 L043.11 Incomplete inevitable miscarriage with unspecified comp 11239 L04311 Incomplete inevitable miscarriage with unspecified comp 11231 L043.11 Inevitable miscarriage with unspecified comp 11232 L04311 Incomplete inevitable miscarriage with unspecified comp 11234 L043.11 Incomplete inevitable miscarriage with unspecified comp 11236 L04300 Unspecified inevitable miscarriage with other specified comp 11237 L043.11 Incomplete inevitable misca	104989	Q018.00	Fetus or neonate affected by maternal postnatal depression
72757 Q007100 Fetus/neonate affected by placental/breast transfer alcohol 51296 Q03y200 Fetus or neonate affected by induction of labour 111265 Qyu6.00 [X]Transitory endocr & metab disord specif to fetus/newborn 59070 Q037.00 Fetus or neonate affected by abnormal uterine contractions 97745 Q007600 Fetus/neonate affected by abnormal uterine contractions 97745 Q007600 Fetus/neonate affected by contracted labour NEC 1255300 Maternal care for (suspected) damage to fetus from alcohol 92824 Q031211 Fetus or neonate affected by obstructed labour NEC 199473 Q007.00 Fetus/neonate affected by poison transferred placenta/breast 50940 5391.11 Fetus - abdominal X-ray, obst. 72836 Q007w00 Fetus/neonate affected-placenta/breast transfer medicine NEC 97923 Q025200 Fetus or neonate affected by knot in cord 68577 Q037100 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus affected by maternal death 107075 L043211 Unspecified inevitable miscarriage without complication 107075 L043211 Unspecified inevitable miscarriage without complication 107625 L044.11 Incomplete inevitable miscarriage without complication 107604 L045211 Complete inevitable miscarriage without complication 107604 L045211 Complete inevitable miscarriage without complication 107604 L045211 Complete inevitable miscarriage without complication 107604 L045211 Unspecified inevitable miscarriage without complication 107604 L045211 Unspecified inevitable miscarriage without complication 107604 L045211 Unspecified inevitable miscarriage with unspecified comp 109228 L043311 Inevitable miscarriage complete 108742 L045x11 Unspecified inevitable miscarriage with Unspecified comp 109228 L043311 Unspecified inevitable miscarriage with Unspecified comp 109288 L043311 Unspecified inevitable miscarriage with OS complication 11234 L043.11 Inevitable miscarriage unspecified 107604 L045x11 Unspecified inevitable miscarriage with Unspecified comp 107605 L04.11 Miscarriage 107604 L045x11 Unspecified inevitable miscarriage with OS complication 1076 L04x00 Unspecified leg	70739	L25yz00	Fetus with other damage NEC NOS
111265 Qyu6.00 [X]Transitory endor: & metab disord specif to fetus/newborn 59070 Q037.00 Fetus or neonate affected by abnormal uterine contractions 77745 Q007600 Fetus or neonate affected by abnormal uterine contractions 77745 Q007600 Fetus or neonate affected by abnormal uterine contractions 77745 Q007600 Fetus/neonate affected-plac./breast transfer anticonvulsant 77670 L255300 Maternal care for (suspected) damage to fetus from alcohol 92824 Q031211 Fetus or neonate affected by poison transferred placenta/breast 50940 5391.11 Fetus - abdominal X-ray, obst. 72836 Q007w00 Fetus/neonate affected-placenta/breast transfer medicine NEC 97923 Q025200 Fetus or neonate affected by knot in cord 68577 Q037100 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus affected by maternal death 107075 L043211 Unspecified inevitable miscarriage without complication 107075 L043211 Unspecified inevitable miscarriage with unspecified comp 17625 L044.11 Incomplete inevitable miscarriage without complication 12241 L0211 Missed miscarriage 107604 L045211 Complete inevitable miscarriage complicated by embolism 13836 L044211 Incomplete inevitable miscarriage without complication 196949 L0212 Silent miscarriage 11323 L045.11 Inevitable miscarriage complete 108742 L045x11 Complete inevitable miscarriage with unspecified comp 11234 L045x11 Inevitable miscarriage with OS complication 11234 L045x11 Unspecified inevitable miscarriage with OS complication 11234 L043x11 Unspecified inevitable miscarriage with OS complication 11234 L043x11 Unspecified inevitable miscarriage with OS complication 11237 L045x00 Legally induced abortion 11238 L045x00 Unspecified legal abortion with co	42384	Q031400	Fetus or neonate affected by transverse lie in labour/deliv
111265 Qyu6.00 [X]Transitory endoor & metab disord specif to fetus/newborn 59070 Q037.00 Fetus or neonate affected by abnormal uterine contractions 97745 Q007600 Fetus/neonate affected by abnormal uterine contractions 27670 L255300 Maternal care for (suspected) damage to fetus from alcohol 92824 Q031211 Fetus or neonate affected by obstructed labour NEC 99473 Q007.00 Fetus/neonate affected by poison transferred placenta/breast 50940 S391.11 Fetus - abdominal X-ray, obst. 72836 Q007w00 Fetus/neonate affected-placenta/breast transfer medicine NEC 97923 Q025200 Fetus or neonate affected by knot in cord 68577 Q037100 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus affected by maternal death 107075 L043211 Unspecified inevitable miscarriage without complication 17625 L044.11 Incomplete inevitable miscarriage without complication 17625 L044.11 Incomplete inevitable miscarriage without complication 17625 L044.11 Invertable miscarriage incomp 17640 L045211 Complete inevitable miscarriage without complication 17641 L02.11 Missed miscarriage 17664 L045211 Complete inevitable miscarriage without complication 17641 L02.12 Silent miscarriage 17664 L045211 Incomplete inevitable miscarriage without complication 17653 L044.11 Incomplete inevitable miscarriage without complication 17654 L045.11 Inevitable miscarriage with unspecified comp 176554 L045.11 Inevitable miscarriage with Unspecified comp 176554 L04511 Inevitable miscarriage with Unspecified comp 176555555555555555555555555555555555555	72757	Q007100	Fetus/neonate affected by placental/breast transfer alcohol
Sepond   Quinter	51296	Q03y200	Fetus or neonate affected by induction of labour
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25883 L071y00 Unspecified incomplete abortion + no mention of complication 99736 L042000 Complete spontaneous abortion + genital tract/pelvic infect	41098	L050x00	Unspecified legal abortion with complication NOS
99736 L042000 Complete spontaneous abortion + genital tract/pelvic infect	106524	L071100	Unspecified incomplete abortion + delayed/excess haemorrhage
	25883	L071y00	Unspecified incomplete abortion + no mention of complication
99590 L052w00 Complete legal abortion with other specified complication	99736	L042000	Complete spontaneous abortion + genital tract/pelvic infect
	99590	L052w00	Complete legal abortion with other specified complication

69190	L052000	Complete legal abortion + genital tract or pelvic infection
3874	L031200	Tubal abortion
56325	L042y00	Complete spontaneous abortion + no mention of complication
99955	L040400	Unspecified spontaneous abortion with metabolic disorder
60771	L0511	Elective abortion
31431	L0513	Therapeutic abortion
95625	L044200	Incomplete inevitable abortion complicated by embolism
40258	L040011	Spontaneous abortion with sepsis
72593	L044x00	Incomplete inevitable abortion with unspecified complication
49467	L0612	Self-induced abortion
71289	L0611	Criminal abortion
25605	L100z00	Threatened abortion NOS
58137	L07z.00	Unspecified abortion NOS
1886	L072.00	Unspecified abortion complete
70643	L070.00	Unspecified abortion
56828	L041w00	Incomp spontaneous abortion + other specified complication
28605	L051z00	Incomplete legal abortion NOS
38415	L050z00	Unspecified legal abortion NOS
97991	L062w00	Complete illegal abortion with other specified complication
2034	L10zz11	Inevitable abortion
56224	L070z00	Unspecified abortion NOS
94404	L061z00	Incomplete illegal abortion NOS
104747	L040x00	Unspecified spontaneous abortion with complication NOS
8173	L043.00	Inevitable abortion unspecified
105470	L040500	Unspecified spontaneous abortion with shock
102090	L08y.00	Failed attempted abortion with no mention of complication
68311	L044y00	Incomplete inevitable abortion with OS complication
9407	6776.11	Abortion counselling
33501	L045.00	Inevitable abortion complete
1737	L0200	Missed abortion
41606	L0600	Illegally induced abortion
39470	L0800	Failed attempted abortion
7413	L041.00	Spontaneous abortion incomplete
1439	L0700	Unspecified abortion
70384	L050y00	Unspecified legal abortion with no mention of complication
1879	L071.00	Unspecified abortion incomplete
68938	L040y00	Unspec spontaneous abortion without mention of complication
49809	L0A00	Failed attempted abortion
41783	L041100	Incomp spontaneous abortion + delayed/excessive haemorrhage
73445	L050000	Unspecified legal abortion + genital tract/pelvic infection
50612	L052y00	Complete legal abortion with no mention of complication
94359	L042w00	Complete spontaneous abortion + other specified complication
68669	L040w00	Unspec spontaneous abortion + other specified complication
58085	L052z00	Complete legal abortion NOS
50903	L0A2.00	Failed medical abortion comp by delayed/excessive haem'ge

33964 L0A4.00         Failed medical abortion, without complication           56822 L050.00         Legal abortion unspecified           51614 L044200         Incomplete inevitable abortion without complication           41118 L082.00         Failed attempted abortion in with complication NOS           39754 L051.11         Medal abortion - incomplete           6730 L051.12         Surgical abortion - incomplete           35184 L071200         Unspecified incomplete abortion NOS           105603 L052500         Complete legal abortion with shock           107159 L08x.00         Failed attempted abortion with complication NOS           7817 L042.00         Spontaneous abortion complete           106491 L050100         Unspecified legal abortion with OS complication           47931 L050000         Unspecified legal abortion with OS complication           47298 L052.00         Legal abortion complete           71529 L060.00         Illegal abortion complete           96418 L062.00         Illegal abortion complete           96561 L062.00         Illegal abortion complete           94138 L062.00         Unspecified spontaneous abortion NOS           47435 L097200         Readmission for retained produc of concept, illegal abortion           72307 L04000         Unspecified spontaneous abortion with other specified complication           893			
S1614 L044200   Incomplete inevitable abortion without complication	33964	L0A4.00	Failed medical abortion, without complication
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39754 L051.11   Medal abortion - incomplete	41118	L08z.00	Failed attempted abortion NOS
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35184 L071200 Unspecified incomplete abortion NOS   105603 L052500 Complete legal abortion with shock   107159 L08x.00 Failed attempted abortion with complication NOS   7817 L042.00 Spontaneous abortion complete   106491 L050100 Unspecified legal abortion + delayed/excessive haemorrhage   66365 L043y00 Unspecified legal abortion with OS complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified legal abortion with other specified complication   47931 L050w00 Unspecified abortion complete   66561 L062.00 Illegal abortion complete   96418 L062.00 Illegal abortion complete   96418 L062.00 Unspecified spontaneous abortion NOS   47435 L097200 Readmission for retained produc of concept, illegal abortion   72307 L040000 Unspecified spontaneous abortion + genital tract/pelvic infection   73443 L051y00 Incomplete legal abortion with no mention of complication   168936 L051100 Incomplete legal abortion with other specified complication   96652 L051w00 Incomplete legal abortion with other specified complication   10060w00 Unspecified incomplete abortion with shock   10060w00 Unspecified abortion with other specified complication   10060w00 Unspecified under   10060w00 Unspecified abortion with unspecified complication   10060w00 Unspecified inevitable abortion with unspecified complication   10060w00 Unspecified inevitable abortion with unspecified complication   10060w00 Unspecified inevitable abortion with Unspecified inevitable abortion   10060w00 Unspecified inevitable abortion with	39754	L051.11	Medal abortion - incomplete
105603   L052500   Complete legal abortion with shock   107159   L08x.00   Failed attempted abortion with complication NOS   7817   L042.00   Spontaneous abortion complete   106491   L050100   Unspecified legal abortion + delayed/excessive haemorrhage   66365   L043y00   Unspecified legal abortion with OS complication   47931   L050w00   Unspecified legal abortion with other specified complication   47298   L052.00   Legal abortion complete   1062.00   Illegal abortion unspecified   L062.00   Illegal abortion complete   1062.00   Illegal abortion complete   96418   L062.00   Illegall abortion complete   96418   L062.00   Illegall abortion with or retained produc of concept, illegal abortion   72307   L040200   Unspecified spontaneous abortion NOS   47435   L097200   Readmission for retained produc of concept, illegal abortion   72307   L040000   Unspecified spontaneous abortion + genital tract/pelvic infection   1063936   L051100   Incomplete legal abortion with no mention of complication   1063936   L051100   Incomplete legal abortion with other specified complication   106652   L051w00   Incomplete legal abortion with other specified complication   106652   L060200   Unspecified incomplete abortion with shock   106000   Unspecified abortion with other specified complication   106000   Unspecified abortion with other specified complication   106000   Unspecified abortion with other specified complication   106000   L070w00   Unspecified abortion with other specified complication   106000   L06000   L06000   Unspecified abortion with other specified complication   106000   1060000   10600000000   1060000000000	6730	L051.12	Surgical abortion - incomplete
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66365   L043y00   Unspecified inevitable abortion with OS complication   47931   L050w00   Unspecified legal abortion with other specified complication   47298   L052.00   Legal abortion complete   71529   L060.00   Illegal abortion unspecified   66561   L062.00   Illegal abortion complete   96418   L062.00   Illegal abortion complete   96418   L062.00   Illegally induced abortion NOS   56562   L040z00   Unspecified spontaneous abortion NOS   47435   L097200   Readmission for retained produc of concept, illegal abortion   72307   L040000   Unspec spontaneous abortion + genital tract/pelvic infection   73443   L051y00   Incomplete legal abortion with no mention of complication   68936   L051100   Incomplete legal abortion with other specified complication   59084   L071500   Unspecified incomplete abortion with shock   53229   L060z00   Unspecified illegal abortion NOS   110905   L070w00   Unspecified abortion with other specified complication   29439   L041z00   Incomplete spontaneous abortion NOS   21805   L097300   Readmission for retained produc of concept, unspec abortion   7114   L044.00   Inevitable abortion incomplete   59572   L0A3.00   Failed medical abortion, complicated by embolism   22379   L04z.00   Spontaneous abortion NOS   59116   L045x00   Complete inevitable abortion with unspecified complication   12337   L051.00   Legal abortion incomplete   41379   L052.11   Medical abortion - complete   906   L100.00   Threatened abortion   Complete   906   L100.00   Threatened abortion   Complete   906   L100.00   Unspecified inevitable abortion with unspec complication   96598   222CE00   Number of induced abortion with unspec complication   68511   L045x00   Complete inevitable abortion with unspec complication   101218   L051700   Incomplete medical abortion without complication   101218   L051700   Incomplete inevitable abortion with Unspec spontaneous abortion with Unspec spontaneous abortion without complication   101218   L051700   Incomplete inevitable abortion with OS complication   101218   L0	7817	L042.00	Spontaneous abortion complete
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47298       L052.00       Legal abortion complete         71529       L060.00       Illegal abortion unspecified         66561       L062.00       Illegal abortion complete         96418       L062.00       Illegally induced abortion NOS         56562       L040200       Unspecified spontaneous abortion NOS         47435       L097200       Readmission for retained produc of concept, illegal abortion         72307       L040000       Unspec spontaneous abortion + genital tract/pelvic infection         73431       L051y00       Incomplete legal abortion with no mention of complication         68936       L051100       Incomplete legal abortion with other specified complication         96652       L051w00       Incomplete legal abortion with other specified complication         59084       L071500       Unspecified incomplete abortion with shock         53229       L060200       Unspecified abortion with other specified complication         29439       L041200       Incomplete spontaneous abortion NOS         21805       L097300       Readmission for retained produc of concept, unspec abortion         7114       L044.00       Inevitable abortion incomplete         59572       L0A3.00       Failed medical abortion with unspecified complication         12337       L051.00 <t< td=""><td>66365</td><td>L043y00</td><td>Unspecified inevitable abortion with OS complication</td></t<>	66365	L043y00	Unspecified inevitable abortion with OS complication
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68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage 68110 L043z00 Unspecified inevitable abortion without complication 101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	29940	L042z00	Complete spontaneous abortion NOS
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101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	68511	L040100	Unspec spontaneous abortion + delayed/excessive haemorrhage
63777 L045y00 Complete inevitable abortion with OS complication	68110	L043z00	Unspecified inevitable abortion without complication
	101218	L051700	Incomplete medical abortion
62659 Lyu0200 [X]Other abortion	63777	L045y00	Complete inevitable abortion with OS complication
	62659	Lyu0200	[X]Other abortion

64692	L141z00	Other threatened labour NOS
92738	ZNA2300	Does perform labouring activities
36756	L386.00	Toxic reaction to local anaesthesia during labour and deliv
49858	Z23G.00	Uterine observation in labour
64206	L313z00	Precipitate labour NOS
109569	L313000	Precipitate labour unspecified
25428	Z246211	Start of labour
23674	L291.11	Failed medical induction of labour
87342	Z244100	Observation of duration of labour
50876	H472.00	Asp pneumonitis due to anaesthesia during labour and deliv
93735	Z246A00	Total duration of labour
71189	Z244400	Late onset of labour
22115	7F10.00	Surgical induction of labour
59789	L14z.00	Early or threatened labour NOS
54167	6322	2nd stage of labour length
44337	L307.00	Failed trial of labour unspecified
32555	L351000	Rupture of uterus during and after labour unspecified
3004	L1411	Premature labour
30782	632Z.00	
		Length of labour NOS
65867	7M35011	Entonox analgesia in labour
23549 66242	L31z.00 Z243400	Abnormality of forces of labour NOS
		Rapid first stage of labour
59445 94809	Z243800 Z256200	First stage of labour problem
99290	Z255800	Prolonged third stage of labour
40448	7F11100	Second stage of labour problem
56873	ZNA2200	Induction of labour using prostaglandins Unable to perform labouring activities
88775	7F11300	Medical induction of labour
	Z255700	
40724		Failure to progress in second stage of labour Other labourer NOS
45057	0Z3Z.00	
95570	L307z00	Failed trial of labour NOS
64732	Q213000	Liveborn with labour abnormal heart beat  Failed mechanical induction of labour
57002 13215	L290.11 63200	
		Length of labour  Relation of onset of labour to due date
48484	Z244500 6323	
49953		3rd stage of labour length
33421	7F11000	Oxytocic induction of labour
35628	L321.00	Prolonged labour unspecified
100252	Z255J00	Pushing involuntarily in labour
98422	Q213100	Liveborn with labour hypoxia
63022	L281500	Prem rupture of membranes onset of labour after 24 hours  Other problems affecting labour NOS
103000	L29yz00	Other problems affecting labour NOS
98003	Z23B400	Contraction of uterus during labour
73319	L302.00	Obstructed labour caused by pelvic soft tissues
55225	L32z.00	Prolonged labour NOS

104405   Z256100	44000		
71720 L350200 Rupture of uterus before labour NOS 60124 Z243411 Rapid progress in first stage of labour 71171 L350000 Rupture of uterus before labour unspecified 106135 Z244200 Long duration of labour 94874 Z244300 Short duration of labour 103154 L321200 Prolonged labour NOS 65243 L141000 Other threatened labour unspecified 60255 L351200 Rupture of uterus during and after labour NOS 99968 L321000 Unspecified prolonged labour, unspecified 3272 7F11200 Other induction of labour NOS 44306 L126600 Eclampsia in labour 48708 Z244411 Postmature labour 95354 Z255300 Progess of second stage of labour 62622 L302000 Obstructed labour NOS, unspecified 108419 L38X.00 Complication of anaesthesia during labour and deliv unsp 40702 Z243600 Slow progress in first stage of labour 37267 L301400 Obstructed labour due to generally contracted pelvis 61611 7F1A400 Trial of labour NEC 22261 Z241100 Onset of labour induced 65900 Z243300 Progress of labour - first stage 32997 6321 Lst stage of labour a first stage 32997 6321 Lst stage of labour a first stage 32997 6321 Lst stage of labour a first stage 32997 6312 Lst stage of labour a first stage 32997 6321 St stage of labour a first stage 32997 6321 St stage of labour and deliv unsp 41010 Intravenous induction of labour 42101 L140200 Threatened premature labour NOS 32877 L350.00 Ruptured uterus before labour 107198 L292000 Unspecified maternal pyrexia during labour, unspecified 97907 L29.00 Other problems affecting labour 24447 7F25.13 Monitoring during labour 24447 7F25.13 Monitoring during labour 32656 638E.00 Obstructed labour caused by pelvic soft tissues unspecified 10466 638E.00 Obstructed labour caused by polycis soft tissues unspecified 104764 L30200 Obstructed labour caused by polycis soft tissues unspecified 25486 L330.00 Obstructed labour caused by polycis soft tissues NOS 48602 L33000 Obstructed labour caused by polycis soft tissues NOS 48602 L32.00 Observation of blood loss in labour			
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24447 7F25.13 Monitoring during labour  73331 Z246900 Duration of second stage of labour  21626 63E1.00 Spontaneous onset of labour  100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified  23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	97907	L2900	Other problems affecting labour
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21626 63E1.00 Spontaneous onset of labour  100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified  23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	24447	7F25.13	Monitoring during labour
100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified 23548 L301.00 Obstructed labour caused by bony pelvis 104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS 48602 L3200 Long labour 36655 Z245.00 Observation of blood loss in labour 99170 Z243.00 Observation of first stage of labour 25112 Z241.00 Labour established 56915 Z249.00 Labour problem	73331	Z246900	Duration of second stage of labour
23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	21626	63E1.00	Spontaneous onset of labour
104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	100563	L302000	Obstructed labour caused by pelvic soft tissues unspecified
48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	23548	L301.00	Obstructed labour caused by bony pelvis
36655 Z245.00 Observation of blood loss in labour 99170 Z243.00 Observation of first stage of labour 25112 Z241.00 Labour established 56915 Z249.00 Labour problem	104746	L302z00	Obstructed labour caused by pelvic soft tissues NOS
99170 Z243.00 Observation of first stage of labour 25112 Z241.00 Labour established 56915 Z249.00 Labour problem	48602	L3200	Long labour
25112 Z241.00 Labour established 56915 Z249.00 Labour problem	36655	Z245.00	Observation of blood loss in labour
25112 Z241.00 Labour established 56915 Z249.00 Labour problem	99170	Z243.00	Observation of first stage of labour
· · · · · · · · · · · · · · · · · · ·	25112	Z241.00	-
· · · · · · · · · · · · · · · · · · ·	56915	Z249.00	Labour problem
62656   Z255400   Rapid second stage of labour		Z255400	•
94396 L30zz00 Obstructed labour NOS			
29529 L351.00 Rupture of uterus during and after labour			
102136 L292z00 Unspecified maternal pyrexia during labour NOS			

40000	7744 00	
40080	7F11y00	Other specified other induction of labour
46297	Z246311	Onset of labour pains
60333	L301500	Obstructed labour due to pelvic inlet contraction
85226	Lyu4000	[X]Other failed induction of labour
103056	Z244.00	Observation of pattern of labour
64548	L281300	Prem rupture of membranes onset of labour within 24 hours
68319	L351300	Rupture of uterus during/after labour with postnatal problem
62278	L281400	Premature rupture of membranes, labour delayed by therapy
22613	Z248.00	Normal labour
90775	Z246.00	Observation of measures of labour
70150	Z246100	Duration of labour
28928	L140.00	Threatened premature labour
93205	Z255F00	Not pushing well in labour
99660	L300400	Obstructed labour due to face presentation
48274	Q212200	Liveborn with prelabour meconium in liquor
59296	L140000	Threatened premature labour unspecified
9294	L292.00	Maternal pyrexia during labour, unspecified
28830	Z242.00	Labour not established
104206	L29z000	Problems affecting labour NOS unspecified
28700	7F111	Labour operations
30001	L313.00	Precipitate labour
104716	Z255E11	Pushing well in labour
98918	Z247100	Expulsion of IUCD during third stage of labour
62600	L29zz00	Problems affecting labour NOS
364	7F13111	Lower uterine segment caesarean section (LSCS) NEC
13315	14Y0.00	Born by caesarean section
13316	14Y6.00	Born by emergency caesarean section
29155	7F1A000	Caesarean hysterectomy
10049	7F12111	Elective lower uterine segment caesarean section (LSCS)
12118	7F13300	Emergency caesarean section
72513	7F13200	Extraperitoneal caesarean section
15361	14Y2.00	Born by elective caesarean section
8192	Q473.00	Other hypothermia of newborn
3007	Q316.00	Newborn transitory tachypnoea
100616	ZV30100	[V]Singleton, born before admission to hospital
93976	Qyu4200	[X]Other bacterial sepsis of newborn
56336	Q40A100	Sepsis of newborn due to Escherichia coli
66999	Q474111	Newborn environmental hyperthermia
15985	ZV32.00	[V]Twin, mate stillborn
59878	Q463.00	Transitory ileus of newborn
10452	6333	Twins - both live born
93999	6339	Triplets - 3 still born
99418	Q482.00	Central nervous system dysfunction in newborn NOS
41064	Q484.00	Newborn drug reaction and intoxication
56888	Q483000	Newborn feeding problem, unspecified

13304	Q480.12	Seizures in newborn
53052	Q425.00	Late anaemia of newborn due to isoimmunisation
98857	ZV31200	[V]Twin, not hospitalised, mate live born
38852	Q311300	Aspiration of vomit in newborn
104697	G520000	Acute aseptic myocarditis of the newborn
55878	Q494.00	Transient myocardial ischaemia of newborn
108976	6318	Born in hospital
19577	Q417100	Cerebellar (nontraum) and post fossa haemorhage fet newborn
108501	Q484z00	Newborn drug reaction or intoxication NOS
88204	ZV30000	[V]Singleton, born in hospital
98669	Qyu4100	[X]Sepsis/newborn due to other+unspecified staphylococcus
15457	Q482y00	Other newborn abnormal cerebral signs
21839	Q480.11	Fits in newborn
12085	Q404.11	Umbilical stump infection of the newborn
72669	Q452.00	Newborn disseminated intravascular coagulation
20083	Q450.00	Haemorrhagic disease of the newborn
38877	R024z00	[D]Jaundice (not of newborn) NOS
8515	Q31y111	Cyanotic attacks of the newborn
110616	6338	Triplets-1 live+ 2 still born
57128	6336	Triplets - all live born
21468	ZV29100	[V]Newborn receiving special care
14813	Q481.00	Newborn cerebral irritability, unspecified
17482	Q474211	Thermal injury in newborn NEC
47693	Q40W.00	Sepsis of newborn due to other+unspecified streptococci
98366	Qyu4800	[X]Sepsis of newborn due to other+unspecified streptococci
23015	6334	Twins - 1 still + 1 live born
106918	Q44X.00	Trans disorder carbohydrate metab of fet and newborn unsp
57783	Q417000	Intracerebral (nontraumatic) haemorrhage of fet and newborn
9477	Q483.00	Feeding problems in newborn
32703	Q21z.12	Hypoxia in newborn NOS
36071	Q21z.11	Anoxia in newborn NOS
70538	Q475.00	Oedema of newborn unspecified
13300	Q477.00	Newborn breast engorgement
56476	Q482z00	Central nervous system dysfunction in newborn NOS
34502	6335	Twins - both still born
63044	ZV31z00	[V]Twin, mate liveborn, NOS
19579	Q448.00	Newborn late metabolic acidosis
90510	Q44T.00	Transitory metabolic disturbance of newborn, unspecified
64600	Q042.00	Fet newborn affect mat exposure to environml chem subs
89262	Q474z00	Newborn temperature regulation disorder NOS
73978	Qyu3800	[X]Other apnoea of newborn
22031	Q40y200	Septicaemia of newborn
45750	Q4z13	Newborn death
105039	44qW000	Newborn blood spot screening
98938	Qyu6C00	[X]Transitory metabolic disturbance of newborn, unspecified

19585	Q483200	Slow feeding in newborn
55895	Q474200	Hyperthermia in newborn, unspecified
31476	9114.11	FP58 - newborn registration
68065	9114.12	GP58 - newborn registration
104239	Q48F.00	Hypoxic ischaemic encephalopathy of newborn
69413	ZV33000	[V]Twin, unspecified, born in hospital
54589	D400700	Acquired neutropenia in newborn
26871	Q318.00	Primary sleep apnoea of newborn
105139	Qyu3700	[X]Other and unspecified atelectasis of newborn
93859	Qyu8400	[X]Hypothermia of newborn, unspecified
20478	ZV27200	[V]Twins, both live born
42527	Q4211	Isoimmunisation of newborn
98721	P320011	Newborn glaucoma
19947	ZV31.00	[V]Twin, mate live born
97799	Qyu3900	[X]Other specified respiratory conditions of newborn
3613	Q40A.00	Sepsis of the newborn
109480	44qW100	,
	Q46X.00	Completion of newborn blood spot screening card
40296		Intestinal obstruction of newborn, unspecified
39165	Q483100	Newborn regurgitation of food
3615	Q436200	Newborn physiological jaundice NOS
72352	Q474300	Transitory fever of newborn
40867	Q485100	Withdrawal symptoms from therapeutic use of drugs in newborn
61943	Q483400	Rumination in newborn
5173	Q421.11	ABO isoimmunisation of the newborn
5218	6316	Born before arrival
56210	Q311100	Aspiration of liquor or mucus in newborn
109128	Qyu5100	[X]Other umbilical haemorrhages of newborn
108994	13If000	Unborn child is cause for safeguarding concern
43366		Phrenic nerve palsy in newborn
52525	Q462.00	Newborn swallowing maternal blood - haematemesis/melaena
61729	Q482100	Coma in newborn
99425	QyuA400	[X]Disorder of muscle tone of newborn, unspecified
47446	Q474000	Newborn dehydration fever
44256	9Ea4.00	Unborn child at risk physi/ment abnormal serious handicap
61800	Q437z00	Kernicterus of newborn NOS
104301	13lv000	Unborn child subject to child protection plan
34504	Q485.00	Newborn drug withdrawal syndrome
23876	Q487.00	Umbilical polyp of newborn
56909	Q411200	Intraventric (nontraumatic) haemorhage grade 3 fet newborn
41053	Q483z11	Bottle feeding problem in the newborn
95873	Q446600	Disturbances of potassium balance of newborn
52577	Q483500	Underfeeding in newborn
28758	ZV29200	[V]Newborn receiving intensive care
47227	ZV27300	[V]Twins, one live born and one stillborn
38890	ZV27400	[V]Twins, both stillborn

4 4 6 6 6	71/24/22	Date the state of
44238	ZV31000	[V]Twin, born in hospital, mate live born
50017	Q472.00	Newborn cold injury syndrome
101103	Q214200	Liveborn with meconium liquor, unspecified
109703	41G4.00	Newborn blood spot specimen received
98336	Q311113	Aspiration of amniotic fluid in newborn
64262	Q311112	Aspiration of liquor in newborn
36845	Q311111	Aspiration of mucus in newborn
73521	QyuA200	[X]Other disorders of muscle tone of newborn
72705	QyuA000	[X]Oth specified disturbances of cerebral status of newborn
57674	Q411100	Intraventric (nontraumatic) haemorhage grade 2 fet newborn
65792	Q484000	Grey syndrome of newborn
68254	Q474100	Newborn environmental pyrexia
19576	Q31y600	Apnoea of newborn
97418	Q3012	Pulmonary hypoperfusion syndrome of newborn
108359	ZV30200	[V]Singleton, born outside hospital and not hospitalised
101529	ZV32z00	[V]Twin, mate stillborn, NOS
86001	ZV32000	[V]Twin, born in hospital, mate stillborn
95736	Qyu8000	[X]Other hypothermia of newborn
48664	Q444111	Hypocalcaemic tetany in newborn
11509	Q483300	Vomiting in newborn
99244	Q446500	Disturbances of sodium balance of newborn
19578	Q483600	Overfeeding in newborn
39691	Q40A000	Sepsis of newborn due to Staphylococcus aureus
93597	Q311200	Aspiration of blood in newborn
72704	Qyu3000	[X]Other respiratory distress of newborn
94759	Q214000	Liveborn with abnormal heart beat, unspecified
103401	Q466111	Intestinal obstruction in newborn due to faecoliths
104825	Q453.00	Other newborn transient coagulation defect
47317	Q483z00	Newborn feeding problem NOS
53402	Q483z12	Breast feeding problem in the newborn
110294	QyuA100	[X]Other feeding problems of newborn
73036	6337	Triplets -2 live+ 1 still born
59694	Q411000	Intraventric (nontraumatic) haemorhage grade 1 fet newborn
20005	Q480.00	Convulsions in newborn
26682	Q404.00	Omphalitis of the newborn
37044	Q450.11	Vitamin K deficiency of the newborn
25091	Z23AP00	Premature uterine contraction
102737	L112300	Premature separation of placenta with coagulation defect
53829	L281z00	Premature rupture of membranes NOS
424	L281.00	Premature rupture of membranes
108033	Lyu3D00	[X]Other premature separation of placenta
69713	L281000	Premature rupture of membranes unspecified
59452	L264000	Intrauterine death unspecified
4697	Q10z.11	Intrauterine growth retardation
1413	L264.00	Intrauterine death

00500	7504600	Induction to a particular control of the control of
89588	7E0A600	Intrauterine insemination without superovulation donor sperm Intrauterine death NOS
37831	L264z00	
111544	7E0A500	Intrauterine insemination without superovulat partner sperm
48471	PF6D200	Intrauterine amputation of lower limb
91652	7E0A300	Intrauterine insemination superovulation partner sperm
88271	7E0A400	Intrauterine insemination superovulation using donor sperm
36694	Q2111	Intrauterine hypoxia
9542	L265311	Maternal care for intrauterine growth retardation
57522	Q451y11	Neonatal thrombocytopenia due to platelet alloimmunisation
44062	A984000	Neonatal gonococcal conjunctivits
41151	Q406611	Neonatal viral dacryocystitis or conjunctivitis
45852	Q406613	Neonatal conjunctivitis due to virus
18439	44qW.00	Neonatal screening test
63783	Q407y00	Other specified neonatal candida infection
71752	Q457000	Neonatal isoimmune neutropenia
30795	Q492.00	Neonatal hypertension
109861	Q444100	Other neonatal hypocalcaemia
53387	1416.00	H/O: neonatal abstinence syndrome
13297	Q447.00	Neonatal hypoglycaemia
110197	Q44y.00	Other transitory neonatal endocrine and metabolic problem
95112	Q407511	Neonatal monilial septicaemia
31315	Q4111	Neonatal haemorrhage
11629	2FX00	O/E - Umbilical stump - neonatal
99830	Q446y00	Other specified transitory neonatal electrolyte disturbance
52572	Q406300	Neonatal dacryocystitis or conjunctivitis due to E.Coli
67105	Q446300	Transitory neonatal hyperkalaemia
73994	Q406400	Neonatal dacryocystitis/conjunctivitis due to staphylococcus
32722	9kJ00	Neonatal check - enhanced services administration
18991	313K.00	Neonatal hearing test
100646	67AD.00	Neonatal feeding education
37782	F251100	Neonatal myoclonic epilepsy
70045	Q45y.00	Other specified transient neonatal blood disorder
13302	Q407.12	Neonatal thrush
40123	Q407.11	Neonatal monilia
72350	Q451y00	Other specified transient neonatal thrombocytopenia
97518	Q451z00	Transient neonatal thrombocytopenia NOS
48202	Q48A.00	Neonatal cerebral leukomalacia
29743	Q407000	Neonatal candidiasis of mouth
29715	Q406.00	Neonatal dacryocystitis and conjunctivitis
55492	Q447000	latrogenic neonatal hypoglycaemia
69813	Q407z00	Neonatal candida infection NOS
8069	Q433A00	Neonatal jaundice from breast milk inhibitor
3211	Q433200	Breast feeding inhibitors causing neonatal jaundice
7818	Q31y500	Neonatal snuffles
26686	Q485200	Neonatal Abstinence Syndrome

17940	F4F5400	Neonatal nasolacrimal duct obstruction
64472	Q44V.00	Neonatal goitre, not elsewhere classified
32327	Q406712	Neonatal conjunctivitis due to chlamydiae
94578	Q457z00	Transient neonatal neutropenia NOS
46817	Q446200	Transitory neonatal hyponatraemia
93307	Q41y400	Neonatal rectal haemorrhage
72370	J004400	Neonatal enamel hypoplasia
93210	Q446z00	Transitory neonatal electrolyte disturbance NOS
36127	Q406412	Neonatal conjunctivitis due to staphylococcus
26678	Q406411	Neonatal dacryocystitis due to staphylococcus
21472	Q441.00	Neonatal diabetes mellitus
48010	Q443.00	Neonatal thyrotoxicosis
39055	9kJ0.00	Neonatal check - enhanced service completed
15487	Q407100	Neonatal candidiasis of perineum
28292	Q405.00	Neonatal infective mastitis
16482	Q407.00	Neonatal candida infection
2240	Q4z12	Neonatal death
109658	Qyu5300	[X]Other neonatal gastrointestinal haemorrhage
53603	Q48C.00	Neonatal hypotension
17496	Q31y511	Neonatal sniffles
48638	Q433800	Neonatal jaundice with porphyria
28341	Q48y600	Early neonatal death
44358	Q44y000	Transitory neonatal tyrosinaemia
63759	Q406y00	Other specified neonatal dacryocystitis or conjunctivitis
23422	Q406100	Neonatal conjunctivitis
51913	Q41y300	Neonatal melaena
38485	7L13000	Neonatal exchange blood transfusion
35727	Q407200	Neonatal candidiasis of other skin
49769	ZV29000	[V]Normal level of neonatal care
45303	Q433000	Delayed conjugation causing neonatal jaundice, unspecified
55360	Q433z00	Delayed conjugation causing neonatal jaundice NOS
30742	F13z500	Benign neonatal sleep myoclonus
21164	Q48y411	Neonatal 'craniotabes'
56614	Q488.00	Neonatal cerebral ischaemia
104194	2L00	Neonatal examination
38163	Q46y100	Neonatal diarrhoea
45444	Q457.00	Transient neonatal neutropenia
36564	Q48y700	Late neonatal death
45012	Q44U.00	Transitory neonatal endocrine disorder, unspecified
49516	Q414300	Neonatal vaginal haemorrhage
27845	Q446000	Neonatal dehydration
93156	Q433y11	Neonatal jaundice - deficiency enzyme for bilirubin conjug.
65686	Q444.12	Neonatal hypoparathroidism
72347	Q406800	Neonatal dacryocystitis/conjunctivitis-other inclusion body
72494	Q406812	Neonatal conjunctivitis due to other inclusion body

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43576	Q406811	Neonatal dacryocystitis due to other inclusion body
27962	Q311400	Neonatal aspiration of milk and regurgitated food
24792	Q31y611	Neonatal apnoeic attack
106500	Q44A.00	Neonatal hypoparathyroidism
27793	Q406700	Neonatal dacryocystitis or conjunctivitis due to chlamydiae
35507	Q433.00	Other neonatal jaundice - delayed conjugation other cause
58833	Q433700	Neonatal jaundice with congenital hypothyroidism
47909	Q449.00	Neonatal tetany without calcium or magnesium deficiency
71056	Q433y00	Delayed conjugation causing neonatal jaundice OS
37776	Q446100	Transitory neonatal hypernatraemia
91557	Q406z00	Neonatal dacryocystitis or conjunctivitis NOS
23566	Q490.00	Neonatal cardiac failure
35477	Qyu5A00	[X]Neonatal jaundice from other+unspcf hepatocellular damage
28361	Q436100	Transient neonatal hyperbilirubinaemia
48869	Qyu5900	[X]Neonatal jaundice due/other specifd excessive haemolysis
64999	Q406200	Neonatal dacryocystitis
55634	Q442.00	Neonatal myasthenia gravis
18578	Q47y200	Neonatal skin infection
20894	Q444.00	Neonatal hypocalcaemia
37953	Q444z00	Neonatal hypocalcaemia NOS
55689	Q407500	Neonatal candida septicaemia
104225	Q434100	Giant cell hepatitis causing neonatal jaundice
39574	Q406512	Neonatal conjunctivitis due to other bacteria
37045	Q406511	Neonatal dacryocystitis due to other bacteria
68264	Q406600	Neonatal dacryocystitis or conjunctivitis due to virus
54971	Q446.00	Other transitory neonatal electrolyte disturbance
66985	Q433600	Neonatal jaundice with Gilbert's syndrome
39164	Q430000	Neonatal jaundice + glucose-6-phosphate dehydrogenase defic.
99435	N000500	Neonatal lupus erythematosus
6097	Q40y100	Neonatal urinary tract infection
40869	Qyu5B00	[X]Neonatal jaundice from other specified causes
57203	Q445.00	Neonatal hypomagnesaemia
106854	Q451100	Trans neonatal thrombocyto due to idopath matern thrombocyto
54169	Q491.00	Neonatal cardiac dysrhythmia
105058	Qyu3300	[X]Other neonatal aspiration syndromes
109912	Qyu6200	[X]Other neonatal hypocalcaemia
49462	Q41y200	Neonatal haematemesis
110458	Q3200	Neonatal respiratory distress syndrome
13301	Q478.00	Neonatal erythema toxicum
94612	Q433500	Neonatal jaundice with Dubin-Johnson syndrome
7475	ZV29212	[V]Neonatal care on NNU
47540	ZV29211	[V]Neonatal care on ITU
68708	Q406311	Neonatal dacryocystitis due to E.Coli
89700	Q406312	Neonatal conjunctivitis due to E.coli
71441	Q451.00	Transient neonatal thrombocytopenia

63790	Q46y000	Neonatal peritonitis NOS
72975	Qyu6000	[X]Other neonatal hypoglycaemia
96590	67AD.11	Neonatal feeding advice
90526	Q444011	Neonatal cows' milk hypocalcaemia
71986	Q446400	Transitory neonatal hypokalaemia
71532	Q406500	Neonatal dacryocystitis/conjunctivitis due to other bacteria
6883	Q317000	Perinatal bronchopulmonary dysplasia
94812	Qyu3A00	[X]Oth cardiovascular disorders originating/perinatal period
54248	Q415.00	Perinatal adrenal haemorrhage
21461	Q400	Other perinatal conditions
45002	Q412.00	Perinatal subarachnoid haemorrhage
87844	7F2A000	Obstetric umbilical artery Doppler
41899	L240000	Congenital abnormality of uterus affecting obstetric care
25731	Z2700	Obstetric investigative observation
101334	8HQ2000	Referral for obstetric ultrasound scan
32913	Z2800	Obstetric pelvic observation
34677	7F23000	Immed repair obstetric laceration of uterus or cervix uteri
58517	L244012	Rectocele affecting obstetric care
29087	7F25z00	Obstetric monitoring NOS
35601	7F23z00	Immediate repair of obstetric laceration NOS
13700	ZL5D100	Referral to obstetrician
13317	2700	Obstetric examination
110628	L43y.11	Fat embolism - obstetric
34046	7F200	Other obstetric operations
60507	L35z000	Obstetric trauma NOS, unspecified
56727	5392	Obstetric X-ray - placenta
59623	L3500	Other obstetric trauma
52679	L417.00	Obstetric cerebral venous thrombosis
13039	L383.00	Obstetric toxic reaction to local anaesthesia
20907	L244011	Cystocele affecting obstetric care
72298	L355.00	Other obstetric pelvic organ damage
102027	L35yz00	Other obstetric trauma NOS
34210	L240011	Bicornuate uterus affecting obstetric care
85951	7F28z00	Other non routine obstetric scan NOS
34086	7Fz00	Obstetric operations NOS
67257	L35y.00	Other obstetric trauma OS
39036	7F00	Obstetric operations
11268	7F23.12	Immediate suture of obstetric laceration
59059	L433.12	Septic obstetric embolism
14970	7F23100	Immed repair obstetric laceration perineum & anal sphincter
68557	L353000	Obstetric laceration of cervix unspecified
73797	L353z00	Obstetric laceration of cervix NOS
101752	L391000	Obstetric shock unspecified
85244	7F2B.00	Obstetric ultrasound monitoring
95698	7F28y00	Other specified other non routine obstetric scan

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54473	L244000	Other uterine/pelvic floor abnormal affecting obstetric care
85245	7F26z00	Routine obstetric scan NOS
55573	8HJ7.00	Obstetric self-referral
88229	7F2A.00	Obstetric Doppler studies
78449	7F28.00	Other non routine obstetric scan
68966	Lyu7.00	[X]Other obstetric conditions, not elsewhere classified
105817	9381	Obstetric coop card issued
93136	L241000	Tumour of uterine body affecting obstetric care
86011	7F26.00	Routine obstetric scan
35558	58412	U-S scan - obstetric, diagn.
55750	L353.00	Obstetric laceration of cervix
65231	9384	Obstetric coop card updated
106154	7F2Ay00	Other specified obstetric Doppler studies
109880	7F2Az11	Obstetric doppler ultrasound NOS
48200	8HMN.00	Listed for Obstetric admission
51929	L354.11	High vaginal laceration - obstetric
34843	L352.11	Inversion of uterus - obstetric
44286	ZL1C200	Under care of obstetrician
4797	5842	U-S obstetric scan normal
49661	7Fy00	Other specified obstetric operations
47156	L357.00	Obstetric trauma causing pelvic haematoma
26698	27Z00	Obstetric examination NOS
104979	L354z00	Obstetric high vaginal laceration NOS
94444	L352z00	Obstetric inversion of uterus NOS
2382	584Z.00	U-S obstetric diagn. scan NOS
71742	L354000	Obstetric high vaginal laceration unspecified
20826	L241011	Uterine fibroid affecting obstetric care
13318	27111	O/E - fundus size - obstetric
94059	7F2Az00	Obstetric Doppler studies NOS
28730	L355.11	Bladder injury - obstetric
27916	L353.12	Tear of cervix - obstetric
86021	7F24.00	Other obstetric operations
22929	8H3C.00	Non-urgent obstetric admission
105146	7F2Ay11	Other specified obstetric doppler ultrasound
69458	L354.00	Obstetric high vaginal laceration
33352	L352.00	Obstetric inversion of uterus
23800	7F23.11	Immediate repair of obstetric tear
29685	5843	U-S obstetric scan abnormal
70607	7F23300	Immediate repair of minor obstetric laceration
24655	8H27.00	Admit obstetric emergency
106067	L246000	Other cervical abnormality affecting obstetric care
53094	7F25y00	Other specified obstetric monitoring
98057	L248000	Vulval abnormality affecting obstetric care
36959	L391.00	Obstetric shock
17911	L416.11	Piles - obstetric

40000	E04 00	110.
19800	58400	Ultrasound in obstetric diagn.
62012	7F2z.00	Other obstetric operations NOS
60870	938Z.00	Obstetric coop card NOS
20591	53900	Abdominal obstetric X-ray
23169	539Z.00	Abdominal obstetric X-ray NOS
98639	L43zz00	Obstetric pulmonary embolism NOS
101944	L43z000	Obstetric pulmonary embolism NOS, unspecified
34533	8HV6.00	Private referral to obstetrician
35197	8HLN.00	Obstetric D.V. done
104205	7F2A100	Obstetric uterine artery Doppler
102802	7F2By00	Other specified obstetric ultrasound monitoring
12625	7F25.00	Obstetric monitoring
57891	7F23.00	Immediate repair of obstetric laceration
54582	L35zz00	Obstetric trauma NOS
13965	58413	Ultra-sound scan - obstetric
96343	7F26y00	Other specified routine obstetric scan
100451	7F24100	Obstetric uterine tamponade
27019	5841	U-S obstetric scan requested
87848	7F2Bz00	Obstetric ultrasound monitoring NOS
91278	L357000	Obstetric pelvic haematoma unspecified
36340	93800	Obstetric coop card
19327	L411.11	Perineal obstetric varicose veins
20496	L411.12	Vulval obstetric varicose veins
27650	L384.00	Obstetric spinal and epidural anaesthesia-induced headache
107037	Lyu4C00	[X]Other specified obstetric trauma
43628	L247011	Septate vagina affecting obstetric care
11988	8H57.00	Obstetric referral
11204	27112	O/E - uterus size - obstetric
48311	Z261.00	Observation of gestational sac
43004	Q1300	Light for gestational age
22385	Z22C300	Length of gestation
91915	7M0f400	From 9 weeks to <14 weeks gestational age
50704	Q113.00	Light for gestational age
69250	L169000	Herpes gestationis unspecified
59681	L41z511	Gestational phlebitis NOS
34265	L16C000	Gestational proteinuria
60330	L1900	Complications specific to multiple gestation
34505	62X3.00	Full term gestation - 40 weeks
90884	7M0f200	9 - 13 weeks gestational age
29565	L161.13	Gestational oedema
102435	8CE0000	Gestational diabetes information leaflet given
34484	62X1.00	Gestation = 24 weeks
49663	Z261100	Gestational sac present
7515	L169.00	Herpes gestationis
37201	L16C100	Gestational oedema with proteinuria

50081	L41z512	Gestational phlebopathy NOS
58971	L41z513	Gestational thrombosis NOS
16975	L2111	Gestation - multiple
97682	7M0fy00	Other specified gestational age
95702	7M0f300	Under 9 weeks gestational age
108013	ZC2CB00	Dietary advice for gestational diabetes
26556	62X2.00	Gestation >24 weeks
26555	62X0.00	Gestation <24 weeks
111075	Qyu1200	[X]Other 'heavy for gestational age' infants
86327	7M0f000	Over 20 weeks gestational age
91101	7M0fz00	Gestational age NOS
103954	62X5.00	Length of gestation at time of test
2664	L180900	Gestational diabetes mellitus
95703	7M0f100	14 - 20 weeks gestational age
8446	L180811	Gestational diabetes mellitus
40703	L169z00	Herpes gestationis NOS
43805	Z22C312	Duration of gestation
18810	62X00	Length of gestation
103090	Lyu3000	[X]Other multiple gestation
55352	7M0f.00	Gestational age
21526	L123500	Gestational hypertension

colour	condition	time frame
green	pregnancy	7/12 mths
blue	birth	<21 days postpartum
yellow	abortion/ miscarrage	<5 days

### Appendix 4: Additional CPRD browser pregnancy medcodes

Medcode	Readcode	Readterm
6298	ZV28.00	[V]Antenatal screening
94405	L413100	Antenatal deep vein thrombosis - delivered
99188	L173.00	Maternal tuberculosis in pregnancy/childbirth/puerperium
63781	L410z00	Varicose veins of legs in pregnancy and puerperium NOS
45870	Ly00	Complications of pregnancy, childbirth or the puerperium OS
52106	L412z00	Superficial thrombophlebitis in pregnancy and puerperium NOS
86991	L172000	Other maternal venereal disease, unspec pregnancy/puerperium
4243	L466.00	Galactorrhoea in pregnancy and the puerperium
70092	L460.00	Retracted nipple in pregnancy, the puerperium or lactation

16995	L462.00	Breast engorgement in pregnancy, the puerperium or lactation
59573	L176500	Viral hepatitis comp pregnancy, childbirth & the puerperium
88361	L248.11	Persistent hymen in pregnancy, childbirth and the puerperium
31610	L248.13	Vulval abnormality in pregnancy/childbirth/puerperium
92998	Lyu1.00	[X]Oedema,proteinuria+hypertens in pregnancy,childbrth,puerp
20597	12G4.00	FH: Multiple pregnancy
28446	Lz00	Complications of pregnancy, childbirth and the puerperium NOS
63835	L247z11	Septate vagina in pregnancy/childbirth/puerperium NOS
109550	L416400	Haemorrhoids in pregnancy and puerperium with p/n comp
59276	L032.00	Ovarian pregnancy
65579	L415.00	Other phlebitis and thrombosis in pregnancy and puerperium
93143	L121.00	Renal hypertension in pregnancy/childbirth/puerperium
60154	L2400	Pelvic soft tissue abnormality in pregnancy/childbirth/puerp
71717	L121100	Renal hypertension in pregnancy/childbirth/puerp - delivered
24006	L466100	Galactorrhoea in pregnancy and the puerperium - delivered
44069	L1800	Other medical condition in pregnancy/childbirth/puerperium
47918	L090300	Salpingitis following abortive pregnancy
11152	L00	Complications of pregnancy, childbirth and the puerperium
63644	L181z00	Thyroid dysfunction in pregnancy/childbirth/puerperium NOS
96004	L183z00	Drug dependence during pregnancy/childbirth/puerperium NOS
1771	L182.00	Anaemia during pregnancy, childbirth and the puerperium
46744	L4100	Venous complications of pregnancy and the puerperium
90329	L416z00	Haemorrhoids in pregnancy and the puerperium NOS
41050	Z200	Pregnancy, childbirth and puerperium observations
39550	L244z11	Cystocele in pregnancy, childbirth or the puerperium NOS
64147	L244z12	Rectocele in pregnancy, childbirth or the puerperium NOS
15297	L461400	Cracked nipple in pregnancy/puerperium/lactation + p/n comp
73717	L463300	Other breast disorder in pregnancy/puerperium/lact +a/n comp
98264	L165200	Asymptomatic bacteriuria in pregnancy - del with p/n comp
53310	L1z00	Complications of pregnancy/childbirth/puerperium NOS
103144	L416300	Haemorrhoids in pregnancy and puerperium with a/n comp
46756	L184.00	Mental disorders in pregnancy, childbirth and the puerperium
26023	L411300	VV's of perineum/vulva in pregnancy/puerperium + a/n comp
58140	L173000	Maternal tuberculosis, unspec whether in pregnancy/puerperium
73089	L460000	Retracted nipple in pregnancy/puerperium/lactation unspec
67006	L096400	Pulmonary embolism following abortive pregnancy
65085	L092000	Bladder damage following abortive pregnancy
23840	L090z00	Septicaemia NOS following abortive pregnancy
51359	L090200	Pelvic peritonitis following abortive pregnancy
106097	L09y.00	Other specified complication following abortive pregnancy
12604	L120.00	Benign essential hypertension in pregnancy/childbirth/puerp

103683	8Hki.00	Referral to teenage pregnancy and parenting support service
42091	L411z00	Varicose veins of perineum/vulva in pregnancy/puerperium NOS
96437	L170000	Maternal syphilis, unspec whether in pregnancy or puerperium
20850	L244.11	Cystocele in pregnancy, childbirth and the puerperium
35903	L244.12	Pendulous abdomen in pregnancy, childbirth and the puerperium
39492	L244.13	Rectocele in pregnancy, childbirth and the puerperium
71943	L411000	VV's of perineum/vulva in pregnancy/puerperium unspecified
93583	L096.00	Embolism following abortive pregnancy
34182	1547	H/O: medical termination of pregnancy
70422	L093400	Uraemia following abortive pregnancy
103222	L248z11	Persistent hymen in pregnancy/childbirth/puerperium NOS
97296	L461200	Cracked nipple in pregnancy/puerp/lact - deliv + p/n comp
5541	1544	H/O: ectopic pregnancy
58982	L186.00	Other cardiovascular diseases in pregnancy/childbirth/puerp
62886	L461z00	Cracked nipple in pregnancy, the puerperium or lactation NOS
41473	L183.00	Drug dependence in pregnancy, childbirth and the puerperium
48552	L010.11	Anembryonic pregnancy
33634	L182z00	Anaemia during pregnancy/childbirth/puerperium NOS
64384	L180z00	Diabetes mellitus in pregnancy/childbirth/puerperium NOS
25759	L411.00	VV's of perineum/vulva in pregnancy/puerperium
38556	67A7.00	Pregnancy dental advice
41718	L1y00	Complications of pregnancy/childbirth/puerperium OS
53056	L246.11	Polyp of cervix in pregnancy, childbirth and the puerperium
73557	L188z00	Abnormal GTT in pregnancy/childbirth/puerperium NOS
69012	L466300	Galactorrhoea in pregnancy/puerperium with a/n complication
57131	L462100	Breast engorgement in pregnancy/puerperium/lactation - deliv
64260	L18D.00	Dis nervous syst complic pregnancy, childbirth and puerperium
59493	L090400	Salpingo-oophoritis following abortive pregnancy
104656	Ly200	Sequelae of complication pregnancy childbirth and puerperium
16046	L410.00	Varicose veins of legs in pregnancy and the puerperium
72215	L241z00	Uterine body tumour in pregnancy/childbirth/puerperium NOS
13245	12G2.00	FH: Diabetes in pregnancy
106736	9mK1.00	Pertussis vaccination in pregnancy invitation second letter
66537	L170100	Maternal syphilis during pregnancy - baby delivered
92415	L095.00	Shock following abortive pregnancy
35273	L097.00	Readmission for abortive pregnancy (NHS codes)
20152	L090y00	Sepsis NOS following abortion/ectopic/molar pregnancy
50009	L461100	Cracked nipple in pregnancy/puerperium/lactation - delivered
71162	L16y100	Other pregnancy complication - delivered
102635	8Cg00	Pregnancy termination care
104806	L463100	Other breast disorder in pregnancy/puerperium/lact - deliv

63319	L096.11	Embolus following abortive pregnancy
94527	L16y400	Other pregnancy complication with postnatal complication
9170	L1200	Hypertension complicating pregnancy/childbirth/puerperium
73432	L18z100	Medical condition NOS during pregnancy - baby delivered
104466	L179.00	HIV disease complicating pregnancy childbirth puerperium
47197	L410400	Varicose veins of legs in pregnancy/puerperium + p/n comp
54761	L170.00	Maternal syphilis in pregnancy/childbirth/puerperium
63773	L416100	Haemorrhoids in pregnancy and the puerperium - delivered
101499	L246z12	Stenosis of cervix in pregnancy/childbirth/puerperium NOS
33255	L246z11	Polyp of cervix in pregnancy/childbirth/puerperium NOS
56542	L240z11	Bicornuate uterus in pregnancy, childbirth or puerperium NOS
41016	L247.11	Septate vagina in pregnancy, childbirth and the puerperium
40262	L247.13	Vaginal abnormality in pregnancy/childbirth/puerperium
6478	L188.00	Abnormal glucose tolerance test in pregnancy/childb/puerp
59910	L17z.00	Maternal infect/parasitic dis NOS in pregnancy/childb/puerp
62052	L092500	Uterus damage following abortive pregnancy
97836	L242100	Uterine operation scar in pregnancy/childbirth/puerp - deliv
99889	L16A200	Glycosuria during pregnancy - delivered with p/n comp
98981	L166400	Genitourinary tract infection in pregnancy with p/n comp
59601	L462200	Breast engorgement in pregnancy/puerp/lact - del + p/n comp
16017	L166100	Genitourinary tract infection in pregnancy - delivered
10205	ZG900	Advice relating to pregnancy and fertility
105500	L41yz00	Other venous complication of pregnancy and puerperium NOS
41283	L187.00	Orthopaedic disorders in pregnancy/childbirth/puerperium
63379	L183100	Drug dependence during pregnancy - baby delivered
38871	L246.00	Other cervical abnormality in pregnancy/childbirth/puerp
47686	L181.00	Thyroid dysfunction in pregnancy/childbirth/puerperium
23691	L172.00	Other venereal diseases in pregnancy/childbirth/puerperium
107197	L170z00	Maternal syphilis in pregnancy/childbirth/puerperium NOS
68215	L188100	Abnormal GTT during pregnancy - baby delivered
40723	L12z.00	Unspecified hypertension in pregnancy/childbirth/puerperium
104542	67AH.00	Education about toxoplasmosis precautions during pregnancy
97741	L461000	Cracked nipple in pregnancy/puerperium/lactation unspecified
67035	L123200	Transient hypertension of pregnancy - deliv with p/n comp
64125	L09yz00	Other specified complication NOS follow abortive pregnancy
57640	L242z00	Uterine operation scar in pregnancy/childbirth/puerp NOS
2924	7E06600	Hysterotomy and termination of pregnancy
27952	ZV13900	[V]PH comp of pregnancy, childbirth and the puerperium
53141	L241.00	Tumour of uterine body in pregnancy/childbirth/puerperium
35928	L463000	Other breast disorder in pregnancy/puerperium/lact unspec
40121	12G1.00	FH: Raised B.P. in pregnancy

11359	L180.00	Diabetes mellitus during pregnancy/childbirth/puerperium
33708	L182100	Anaemia during pregnancy - baby delivered
58686	L462000	Breast engorgement in pregnancy/puerperium/lactation unspec
6560	L416.00	Haemorrhoids in pregnancy and the puerperium
98133	9Ea0.00	Risk life pregnant woman greater than if pregnancy terminatd
32950	L03y100	Cornual pregnancy
105006	Q48G.00	Complication termination pregnancy affecting fetus newborn
107708	L415100	Other phlebitis/thrombosis in pregnancy/puerperium - deliv
28225	L240.11	Bicornuate uterus in pregnancy, childbirth and puerperium
49789	L240.12	Double uterus in pregnancy, childbirth and the puerperium
56217	L416000	Haemorrhoids in pregnancy and the puerperium unspecified
99154	L410000	Varicose veins of legs in pregnancy/puerperium unspecified
96724	L162100	Unspecified renal disease in pregnancy - delivered
101260	L10z100	Early pregnancy haemorrhage NOS - delivered
35859	67A5.00	Pregnancy alcohol advice
42598	L175.00	Maternal rubella in pregnancy, childbirth and the puerperium
72437	L248z00	Vulval abnormality in pregnancy/childbirth/puerperium NOS
101272	L462300	Breast engorgement in pregnancy/puerperium/lact + a/n comp
92362	L240z00	Congenital abnormality uterus in pregnancy/childb/puerp NOS
63362	L091100	Defibrination syndrome following abortive pregnancy
73311	L41z.00	Venous complications of pregnancy and puerperium NOS
34639	L180100	Diabetes mellitus during pregnancy - baby delivered
43754	L18z.00	Medical condition NOS in pregnancy/childbirth/puerperium
30948	L150100	Post-term pregnancy - delivered
73647	L188000	Abnormal GTT - unspec whether during pregnancy/puerperium
54681	L189.00	Dis resp syst comp pregnancy, childbirth & puerperium
99365	L460z00	Retracted nipple in pregnancy/puerperium/lactation NOS
64649	L175100	Maternal rubella during pregnancy - baby delivered
28611	L461.00	Cracked nipple in pregnancy, the puerperium or lactation
61144	L463.00	Other breast disorder in pregnancy/puerperium/lactation
50571	L090100	Parametritis following abortive pregnancy
70342	L123400	Transient hypertension of pregnancy + postnatal complication
99422	L187000	Orthopaedic disorder - unsp whether in pregnancy/puerperium
32007	L090.00	Genital or pelvic infection following abortive pregnancy
45242	L241.11	Uterine fibroids in pregnancy, childbirth and the puerperium
7270	12G4.11	FH: Twin pregnancy
38440	L462z00	Breast engorgement in pregnancy/puerperium/lactation NOS
89557	L092300	Cervix damage following abortive pregnancy
41961	L171.00	Maternal gonorrhoea during pregnancy/childbirth/puerperium
50908	L242.00	Uterine scar from previous surgery in pregnancy/childb/puerp
16752	ZV72900	[V]Pregnancy examination and test

14765	L462400	Breast engorgement in pregnancy/puerperium/lact + p/n comp
15633	L182000	Anaemia - unspecified whether in pregnancy or the puerperium
73757	L247z00	Vaginal abnormality in pregnancy/childbirth/puerperium NOS
99389	L460300	Retracted nipple in pregnancy/puerperium/lact with a/n comp
24303	9Ea00	Reason for termination of pregnancy
55757	L16y200	Other pregnancy complication - delivered with postnatal comp
67635	L180000	Diabetes mellitus - unspec whether in pregnancy/puerperium
51639	L241z11	Uterine fibroid in pregnancy/childbirth/puerperium NOS
40978	Z22A700	Surrogate pregnancy
18944	7E07011	Dilation cervix uteri & curettage for termination pregnancy
54107	L10z000	Early pregnancy haemorrhage NOS unspecified
103610	9NkN.00	Seen in early pregnancy unit
70476	L132100	Late pregnancy vomiting - delivered
23456	L412.00	Superficial thrombophlebitis in pregnancy and the puerperium
67377	L463z00	Other breast disorder in pregnancy/puerperium/lactation NOS
94736	L096600	Septic embolism following abortive pregnancy
94353	L175000	Maternal rubella, unspecified whether pregnancy/puerperium
64127	L121000	Renal hypertension in pregnancy/childbirth/puerp unspecified
99594	L415000	Other phlebitis/thrombosis in pregnancy/puerperium unsp
50093	L093000	Oliguria following abortive pregnancy
28312	L466z00	Galactorrhoea in pregnancy and the puerperium NOS
72944	L176.00	Other maternal viral dis. in pregnancy/childbirth/puerperium
49390	L174.00	Maternal malaria in pregnancy, childbirth and the puerperium
97629	L246z00	Other cervical abnormality in pregnancy/childbirth/puerp NOS
57419	L167100	Liver disorder in pregnancy - delivered
73927	L175z00	Maternal rubella in pregnancy/childbirth/puerperium NOS
54089	L466000	Galactorrhoea in pregnancy and the puerperium unspecified
94718	L121z00	Renal hypertension in pregnancy/childbirth/puerperium NOS
105918	L09y400	Urinary tract infection following abortive pregnancy
30326	L090000	Endometritis following abortive pregnancy
38022	Z22CF00	Date symptom of pregnancy first noted
69703	L185100	Congenital cardiovasc dis in pregnancy - baby delivered
69911	L18zz00	Medical condition NOS in pregnancy/childb/puerp NOS
35680	Q423.00	Hydrops fetalis due to isoimmunisation
59296	L140000	Threatened premature labour unspecified

# **BMJ Open**

# Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

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Complete List of Authors:	Gompels, Mark; North Bristol NHS Trust, Department of Immunology, Southmead Hospital Michael, Skevi; University of Bristol, School of Mathematics Davies, Charlotte; University of Bristol, Department of Population Health Sciences, Bristol Medical School Jones, Tim; University of Bristol; University Hospitals Bristol NHS Foundation Trust, The National Institute for Health Research Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) Macleod, John; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions May, Margaret; University of Bristol, Population Health Sciences, Bristol Medical School; University of Bristol, The National Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions
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## Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

M Gompels<sup>1</sup>, S Michael<sup>2</sup>, C F Davies<sup>3</sup>, T Jones<sup>3,4</sup>, John MacLeod<sup>3,5</sup>, M T May<sup>3,5</sup>

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<sup>1</sup> Dr Mark Gompels: Consultant HIV, Department of Immunology, Southmead Hospital, North Bristol NHS Trust, UK. Email: Mark.Gompels@nbt.nhs.uk

<sup>2</sup> Dr Skevi Michael: Senior Teaching Associate, School of Mathematics, University of Bristol, UK. Email: Skevi.Michael@bristol.ac.uk

<sup>3</sup> Dr Charlotte F Davies: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK. Email: <a href="mailto:Charlotte.Davies@bristol.ac.uk">Charlotte.Davies@bristol.ac.uk</a>
<sup>3,4</sup> Dr Timothy Jones: Senior Research Associate, Department of Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National Institute for Health Research
Collaboration for Leadership in Applied Health Research and Care West (NIHR CLAHRC West) at
University Hospitals Bristol NHS Foundation Trust, Bristol, UK. Email: Timothy.Jones@bristol.ac.uk

<sup>3,5</sup> Professor John Macleod, Professor of Clinical Epidemiology and Primary Care, Department of
Population Health Sciences, Bristol Medical School, University of Bristol, UK and The National
Institute of Health Research Health Protection Research Unit (NIHR HPRU) in Evaluation of
Interventions at University of Bristol, Bristol, UK. Email: John.Macleod@bristol.ac.uk

<sup>3,5</sup> Professor Margaret T May, Professor of Medical Statistics, Department of Population Health
Sciences, Bristol Medical School, University of Bristol, UK and The National Institute of Health
Research Health Protection Research Unit (NIHR HPRU) in Evaluation of Interventions at University

#### **Corresponding author:**

Dr. Charlotte F. Davies
Department of Population Health Sciences
Bristol Medical School
University of Bristol
Bristol
BS8 2PS
UK Telephone: +44 117 9287209

of Bristol, Bristol, UK. Email: Margaret.may@bristol.ac.uk

Fax: +44 117 928 7325

charlotte.davies@bristol.ac.uk

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#### Abstract 300

**Objectives:** To estimate trends in HIV testing, positivity and prevalence in UK Primary Care for 2000-2015 as part of a wider investigation into reasons for late diagnosis of HIV.

**Design:** Retrospective cohort study using the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care.

**Setting:** 404 General Practices in England.

**Participants:** 5,979,598 adults aged  $\geq$  16 years registered between 2000-2015 with 45,093,761 person years of observation.

**Outcomes:** Annual HIV testing rates, proportion of positive tests, and prevalence of HIV-infected people recorded in Primary Care 2000-2015.

Results: HIV testing in Primary Care increased from 2000 to 2010, but then declined. Testing was higher in females than males and in those aged 16-44 years compared with older adults. Rates per 100,000 in women aged 16-44 years were 177 (95% CI 167-188); 1309 (1282-1336); 1789 (1757-1821) and 839 (817-862) in 2000, 2005, 2010 and 2015, respectively, and for non-pregnant women: 22.5 (19-26); 134 (125-143); 262 (250-275); 190 (179, 201). For men aged 16-44 years rates were: 26 (22-29); 107 (100-115); 196 (185-206); 137 (127-146). Over the study period, there were approximately 2 positive results per 1000 HIV tests. Men were eight-fold more likely to test positive than women. The percentage of HIV diagnoses among adults recorded in CPRD may be as low as 55% in London and 67% in the rest of the UK.

**Conclusions**: HIV testing rates in Primary Care peaked in 2010 and subsequently declined. Access to testing was higher for women despite the prevalence of HIV being higher in men.

#### Implications and further research needed:

Opportunities remain in Primary Care for increasing HIV testing to prevent costly late diagnoses and decrease HIV transmission. Interventions to improve targeting of tests and increase adherence to HIV testing guidelines are needed in Primary Care.

#### **Article summary**

### Strengths and limitations of this study

- We investigated trends in HIV testing in Primary Care using high quality data from the Clinical Practice Research Datalink (CPRD) which is derived from computerised clinical records produced during consultations in Primary Care in England.
- CPRD provided anonymised Primary Care records on patients registered between 2000 and 2015 in 404 primary care practices in England which is likely to be representative of the general patient population.
- A limitation of the study is that not all General Practices contribute data to CPRD and therefore we cannot know whether the sample was representative.
- A major strength of the study was the large number of patients, nearly 6 million, which allowed us to contrast trends in HIV testing rates in Primary Care by sex, age, deprivation, rural/urban location and whether in London or not.
- Data were available for 15 years of follow up allowing us to show that HIV testing in Primary Care in England increased between 2000 and 2010, but then declined up to 2015.



#### Introduction

HIV testing in Primary Care is an important component of the strategy to diagnose HIV earlier and reduce transmission of HIV. In 2015 there were an estimated 89,800 (95% credible interval (CrI) 87,100-94,800) people living with HIV (PLWHIV) in England of whom approximately 15% (Crl 12-19%) were unaware of their infection<sup>1</sup>. Of those individuals newly diagnosed with HIV in 2015, 39% were diagnosed late, defined as having a CD4 count below 350 cells/mL within three months of diagnosis.<sup>2</sup> An estimated 1 in 4 of newly diagnosed individuals experienced a missed opportunity for an earlier diagnosis within the healthcare system in the preceding year.<sup>3</sup> Late diagnosis of HIV is associated with increased hospitalisations, decreased life expectancy, 4-7 and higher treatment and care costs to the NHS.8 Importantly, individuals with undiagnosed HIV are likely to be responsible for the majority of transmissions because successfully treated individuals are unlikely to infect others.9 Enhanced HIV testing is considered to be cost-effective in areas with a local diagnosed HIV prevalence that exceeds 2 per 1000 in adults aged 15-59 years.<sup>2,10</sup> In these high HIV prevalence areas recommendations are an HIV test should be routinely offered to all new GP registrations, those undergoing tests for other sexually transmitted infections or having blood tests for any reason, and all new hospital medical admissions.<sup>2,11</sup> However, the majority of people with HIV seek medical care for a related condition several times prior to their HIV diagnosis. 12,13 This may be presenting to general practice or hospital care. But without a high degree of clinical suspicion, the diagnosis is often missed.<sup>14</sup> BHIVA has published a list of indicator diseases which are more commonly found in those who are HIV positive than negative. 15 HIV testing is recommended in these cases, but recent surveys suggest poor adherence to guidelines. 16,17 Given the increase in HIV prevalence over time we would expect that there would be an increase in GP testing for HIV.

Evidence from systematic reviews shows that there are often many barriers to testing experienced by patients and equally by the healthcare providers (HCP).<sup>18-20</sup> Patients presenting with clinical indicator conditions to their General Practitioner (GP) provide a valuable opportunity to diagnose HIV and avoid hospitalisations due to late diagnosis.<sup>21</sup> Research has shown that the majority of patients (up to 75%) newly diagnosed with HIV had been seen in the healthcare system within the 12 months prior to their diagnosis resulting in a missed opportunity to test.<sup>12,14,22</sup> <sup>23</sup>Opt out HIV testing has been shown to be feasible, acceptable and cost effective in eight pilot studies conducted in community, primary and secondary care settings in high prevalence areas across England <sup>24</sup>.

However, no recent evidence is available to know if HIV testing in Primary Care has been increasing and guidelines have been implemented over the country and not just in high risk areas. 16,17

HIV testing in Primary Care has been reported only for the years 1995 to 2005 using data from the UK General Practice Research Database (GPRD).<sup>25</sup> This study showed that testing in Primary Care remained low, but increased steadily. Our main objective was to analyse data from the same source collected between the years 2000 to 2015 to study if HIV testing trends continued to increase in primary care over this extended time period. In addition we investigated differences in HIV testing rates and HIV diagnosis by demographic characteristics and estimated the prevalence of HIV recorded in primary care and compared it with estimates from national surveillance.

#### Methods

#### Population and data

We used data from the Clinical Practice Research Datalink (CPRD), previously known as the General Practice Research Database (GPRD), which is derived from computerised clinical records produced during consultations in Primary Care. The CPRD database contains information from GP practices in the UK using the Vision software system (roughly 9% of UK practices) who consent to data collection; the sample is broadly representative of the adult UK population<sup>26</sup>. Only GP practices in England are eligible for linkage to other datasets such as hospital admissions and practices can opt out of linkage. CPRD provided anonymised Primary Care records and linked secondary care and mortality records on patients registered between 2000 and 2015 in 404 primary care practices in England. Data were available on nearly 6 million people aged over 16 years old. General Practitioners (GP) enter data on tests, diagnoses and symptoms using Read codes which are a hierarchical alphanumeric system similar to, but more extensive than International Classification of Disease (ICD) codes. The list of Read codes used to identify (1) HIV tests<sup>25</sup> (2) HIV diagnoses<sup>25</sup> (3) pregnancy/delivery/abortion<sup>27</sup> and (4) additional CPRD browser pregnancy medcodes are listed as appendices 1 to 4, respectively, in the supplementary file. We used individual level quintiles of the Index of Multiple Deprivation, 2015<sup>28</sup>. Practices were classified as rural, urban conurbation, or city/town at lower super output level (a small area geographic boundary of around 1,500 people) in England based on Office for National Statistics classifications, 2011<sup>29</sup>, and as within or outside London. Ethnicity was grouped as Asian, Black African, Black Caribbean, Other, White, and unknown based on linked Hospital Episode Statistics data.

We used national surveillance data from Public Health England (PHE) on testing in Primary Care derived from general practices that submit HIV tests to laboratories participating in the Sentinel

Surveillance of Blood Borne Virus Testing (SSBBV). These practices cover 35% of England's Primary Care population. HIV testing data is captured from 66% of the Primary Care population in extremely high prevalence areas (>5 /1000), 37% within high prevalence areas (>2/1000) and 29% within low prevalence areas. These data exclude any point of care tests (POCTs) carried out by GPs, and tests carried out as part of antenatal screening. The latest data available on testing rates and positivity were for 2015<sup>30</sup>. Data on HIV prevalence were derived from the HIV and AIDS Reporting System (HARS) and for earlier years the Survey of Prevalent HIV Infections Diagnosed (SOPHID) available from PHE.<sup>2</sup> These data were available up to 2015.

#### **Patient and Public Involvement**

Public and Patients were not involved in the design of this study. Patient data from General Practices were contributed via CPRD and PHE surveillance as stated above.

#### Statistical methods

HIV testing rate, positivity and prevalence of HIV recorded in primary care

Using data from CPRD we estimated the HIV testing rates for each year between 2000-2015, overall and by patient demographics. Testing rates were estimated for males and females, for all ages and grouped by age (16-44,  $\geq$  45 years - chosen to match the study by Evans et al<sup>25</sup>). We also estimated rates separately according to whether the practice was in London or not, and by type of location. For each calendar year, the denominator used to calculate the HIV testing rate was the number of patients who were in the CPRD cohort in that year satisfying the following inclusion criteria:

- (i) they were registered before the 30th June of that year
- (ii) they did not transfer to another practice or die before the 30<sup>th</sup> June of that year
- (iii) they were in the same practice for at least six months
- (iv) they had not previously tested positive for HIV.

The numerator was the number of HIV tests carried out within the relevant year. For each patient in the denominator, the number of tests was calculated, disregarding repeat tests that were within a 3 month period. Any test done or registered more than 90 days after the first recorded positive test was ignored.

As the majority of HIV tests in women are carried out as part of antenatal screening, analyses for females were repeated excluding these tests. We identified women who were pregnant using either delivery dates or Read codes as follows:

(i) Delivery (birth) dates associated with the females in our data: An HIV test was considered antenatal if it occurred between 3-9 months before the recorded delivery date.

- (ii) Read codes indicating any sign of pregnancy (antenatal): In this case an HIV test was considered antenatal if it occurred within 6 months from the day the Read code was recorded.
- (iii) Read codes associated with the postpartum period: In this case the HIV test was considered antenatal if it occurred within 3-10 months before the corresponding record.
- (iv) Read codes indicating any sign of miscarriage or abortion: An HIV test was recorded as ante-natal if it occurred between 3 months prior to 3 months after the corresponding record.

The Read codes associated with pregnancy are listed in the supplementary material. The antenatal HIV tests were excluded from the numerator and the corresponding patients were removed from the denominator for the relateded period as well.

We plotted the trends in HIV testing rates per 100,000 person years for 2000-2015 separately for men and women (including and excluding ante-natal HIV tests) for all adults and restricted to those aged 16-44 years old. In addition, we calculated the annual proportion of HIV tests that were positive for each year to investigate whether testing improved in terms of targeting higher risk individuals during the later years.

For the years 2005, 2010 and 2015, we estimated and tabulated HIV testing rates and incidence rate ratios (IRR) with 95% confidence intervals from Poisson models for males and females separately according to whether practice was in London or not, by age, ethnicity, IMD, and by type of location. To validate our estimates of HIV testing rates recorded in CPRD, we compared them with those from national surveillance data collected by PHE for 2015<sup>30</sup>. Finally, we estimated the prevalence of diagnosed HIV recorded in CPRD and compared this with estimated prevalence from national surveillance data collected by PHE using SOPHID and HARS to determine the proportion of all HIV diagnoses that were recorded in CPRD. Data analysis was performed using STATA version 14.

#### **RESULTS**

Data were available on 5,979,598 distinct patients with 45,093,761 (males 22,155,768; females 22,937,630) person years of observation. The demographic characteristics of included individuals are shown in Table 1. There were less males (48%) than females (52%). Practices (15%) and individuals (16%) in the most deprived quintile of IMD were under-represented in CPRD. The total number of HIV tests recorded in CPRD between 2000 and 2015 was 159,115 of which 357 (0.2%) were positive.

Trends in HIV testing rates 2000-2015 in Primary Care

Figure 1 shows the trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing. The main reason for HIV testing among women of child-bearing age was antenatal screening: the testing rates (per 100,000 person-

years) in all women aged 16-44 increased from 177 (95% CI 167-188) in 2000 to 1789 (1757-1821) in 2010 and then decreased to 839 (817, 862) in 2015, with the corresponding figures being 23 (19-26), 262 (250-275) and 190 (179-201) when antenatal testing was excluded. For males the corresponding rates were 26 (22-29), 196 (185-206) and 137 (127-146), which are lower than rates for females even when antenatal tests are excluded. HIV testing rates in Primary Care peaked in females in 2010 (figure 1) and have declined markedly since then. In men and women not tested ante-natally, HIV testing rates increased until 2012-2013, but have declined since. Similar patterns were seen when data were restricted to those aged 16-44 years only, except that rates were much higher in younger adults compared with those aged 45 years and over (supplementary table 1 all adults, supplementary table 2 for those aged 16-44 years).

#### Trends in positive HIV diagnosis in Primary Care

Although the number of HIV tests was much higher in women, more men tested positive: 196/20,328 (0.96%) men compared with 161/138,787 (0.12%) women. This was skewed by a very low rate of positive diagnoses in younger females who were screened ante-natally. The smoothed trend in the percentage of tests that were positive for men and women of different ages is shown in figure 2 (plot of raw data is shown in supplementary\_figure). Percentage positive (excluding antenatal tests), was similar in men and women before 2005, but declined more sharply in women thereafter. The percentage of tests that were positive peaked around 2003 and have fallen sharply since 2010, indicating that there is no evidence of better targeting of testing to individuals in later years.

#### HIV testing rates in practices within and outside London, by age and deprivation index

HIV testing rates were two-fold higher in London compared with outside London for both men and women in 2005 and this differential increased in 2010 and 2015. Table 2 and table 3 give the testing rates for years 2005, 2010 and 2015 for males and females (excluding antenatal tests), respectively, stratified by whether the practices were in London or outside London. Data for all years between 2000 and 2015 are given for all adults (supplementary table 1) and for adults aged 16-44 years (supplementary table 2). In more recent years practices outside London but in conurbations had higher rates than those in cities or towns, which in turn had higher rates than rural practices. Although testing rates in men in London practices decreased between 2010 and 2015 overall from 273 (251-295) to 246 (225-266) per 100,000 person-years, there was evidence of a shift in targeting of testing since rates increased in older men from 151 (127-176) to 180 (154-206) per 100,000 person-years and in the most deprived quintile from 415 (351-480) to 565 (487-643) per 100,000 person-years. This

targeting effect was also seen among women in London practices, but not in practices outside London. However, in 2015 in London it remained the case that older people were less likely to be tested: incidence rate ratio (IRR) for age  $\geq$  45 compared with 16-44 years was 0.59 (0.50-0.71) for men and 0.46 (0.38-0.55) in women. The corresponding IRR for outside London were much lower: IRR for age  $\geq$  45 compared with 16-44 years was 0.37 (0.32-0.43) in men and 0.18 (0.16-0.21) in women. In contrast, by 2015 the most deprived group were 2- or 3-fold more likely to be tested than the least deprived, depending on gender and locality, with IRR for IMD quintile 5 versus 1 increasing markedly from 2005 through to 2015 (table 2 (males) and table 3 (females)).

HIV testing rates and positivity according to national surveillance data

For comparison, national surveillance data for 2015 estimated that General Practices in extremely high prevalence areas (defined as greater than 5/1000 population, comparable with "London" in our CPRD study) carried out the highest number of tests per practice population 860 per 100 000 person years. This was nearly double the coverage rate of General Practices in high diagnosed prevalence areas (defined as greater than 2/1000 population), which was estimated at 440 per 100 000 person years, and ten times the coverage rate among General Practices in low diagnosed prevalence areas, which was estimated at 90 per 100 000 person years. The estimates of HIV testing rates from surveillance were higher than our estimates from CPRD (table 2 and table 3). The proportion of positive tests among those tested in Primary Care estimated from SSBBV surveillance data was 0.4% in 2015<sup>30</sup>. This varied from 0.5% in very high prevalence areas to 0.2% in low prevalence areas and was consistent with our estimated positivity (figure 2).

Prevalence of recorded HIV in CPRD and comparison with national surveillance estimates

In 2015 the prevalence of diagnosed HIV recorded in CPRD was 2.8 per 1000 adult patients in
London practices and 0.8 per 1000 in the rest of the UK (table 4). According to PHE surveillance, in
2015 HIV prevalence in UK was estimated to be 1.6 per 1000, and excluding undiagnosed HIV was
1.3 per 1000 population.<sup>2</sup> The HIV prevalence in London was estimated to be 4.7 per 1000,
substantially higher than the rest of the UK at 1.1 per 1000. The corresponding observed prevalence,
that is, excluding undiagnosed cases of HIV, was 4.2 and 0.9 per 1000 population in London and the
rest of the UK, respectively.<sup>2</sup> However, these percentages are likely to be over-estimated as children
aged <16 years were not included in the CPRD calculations of prevalence but were included in PHE
data. In General Practices in London, prevalence of HIV recorded in CPRD was higher for males, older
individuals, Black African ethnicity and most deprived quintile (table 4) with a similar pattern in
practices outside London except that prevalence did not vary by age.

#### Discussion

Statement of principal findings

Our analysis of CPRD data on GP consultations recorded on approximately 6 million people living in the UK over a 15-year period, shows that the initial rise in HIV testing seen in Primary Care between 2000 and 2010 reversed with a significant drop in the testing rates for HIV in primary care from 2010. This is an unexpected finding as throughout this period prevalence of HIV has been increasing which should have engendered higher rates of testing in Primary Care, given the NICE recommendations on testing, which would increase with increased prevalence <sup>31,32</sup>. HIV testing rates in Primary Care were higher in women than men throughout the study period, even when tests for antenatal screening were excluded, despite HIV prevalence being higher in men. This resulted in men being eight-fold more likely to test positive than women in this setting. Over the 15-year period of the study, there were approximately 2 positive results per 1000 HIV tests. We did not find evidence of better targeting of HIV testing to individuals in more recent years as the percentage of tests that were positive peaked around 2003. Many individuals at high risk of HIV infection may choose to test in settings other than General Practice, such as sexual health clinics, which might make it harder to target HIV testing among the population attending Primary Care.

The pattern of HIV testing has also changed over time. Testing was two-fold higher in London then elsewhere and has increased in the groups and areas of high deprivation within London. This is reassuring as it also reflects the higher prevalence of HIV in these areas and indicates that HIV testing has become more geographically targeted. Overall, testing rates were higher in urban conurbations and cities than in rural areas reflecting the national prevalence figures<sup>2</sup>. Younger people were more likely to be tested than those aged 45 years and over, which reflects the incidence pattern for HIV. However, our data shows an increasing trend in the rate of testing among the older age group in London, but not elsewhere, which may have been driven by the recognition that among those with HIV infection the proportion diagnosed late is higher in older age groups<sup>33</sup>.

In 2015, the prevalence of HIV recorded in CPRD was over three-fold higher in London than elsewhere, but overall was substantially lower than the prevalence of diagnosed HIV estimated from PHE surveillance<sup>2</sup>. This may be due to HIV-positive individuals not using primary care or to non-disclosure of their HIV status to their GP, not recording of the diagnosis on GP systems, or to CPRD not including sufficient practices with high HIV prevalence. CPRD is broadly representative of Primary Care in the UK, but the UK HIV epidemic is concentrated in cities with approximately half of

HIV-positive individuals living in London<sup>2</sup>. The estimated percentage of HIV diagnoses among adults that were recorded in CPRD increased between 2005 and 2015 but was still substantially lower in London than elsewhere. This trend may reflect the ageing HIV population's greater requirement of primary care services, decrease in stigma of disclosure, or better transfer and recording in Primary Care of positive results of HIV tests carried out in other settings in later years.

#### Strengths and weaknesses of the study

This study is very large with data from nearly six million patients followed over fifteen years with detailed primary care records. This detailed coverage enabled us to accurately measure HIV testing rates according to the important factors of deprivation, urbanisation, gender, ethnicity and age. Records were collected prospectively and electronically over a significant time period; therefore, we were able to show clearly the trends that have occurred. Our analysis and the data collection may be biased by several factors. The CPRD only includes a sample of general practices, but this is broadly representative of Primary Care in the UK, and, given the large numbers, this is a sufficient sample size for estimates of testing rates to be accurate. We have shown the CPRD slightly underrepresents deprivation, in both individuals and GP practices. Whilst this may be the case, given the very large sample size, we think that we can still draw valuable conclusions from this data. This study can only show the composite rates of testing in Primary Care. We were not able to categorise the different indications for an HIV test. What is clear, given the number of HIV positive patients, is that many patients will have been diagnosed in other healthcare settings, for example, PHE estimated that in England during 2016 5.9% and 7.3% of new diagnoses in men and women, respectively, were made in Primary Care<sup>34</sup>. This implies that estimates of the prevalence of diagnosed HIV based on diagnoses recorded in CPRD will be under-estimates for the UK which we have shown by comparing with surveillance data from PHE.

Strengths and weaknesses in relation to other studies, discussing important differences in results

HIV testing in Primary Care in the Netherlands also decreased between 2010-2015 despite similar guidelines encouraging more pro-active screening for HIV<sup>35</sup>. Although HIV testing in Primary Care has declined, the rates of late diagnosis (CD4 count less than 350 cells/mL) have also declined from 50% in 2010 to 39% in 2015<sup>36</sup>, indicating a discordancy between the testing in Primary Care and diagnosis. This indicates that increased testing has likely occurred in other settings. Earlier diagnosis may be due to better detection in secondary care, either from screening or testing those with indicator conditions, or through other routes such as sexual health clinics, insurance requests or specialist testing services. Moreover, if testing has become better targeted in Primary Care and incidence in the consulting population is decreasing then even without an increase in testing, those

who get tested may be tested earlier in the course of HIV infection leading to reduced rates of late diagnoses. However, we have shown a significant decline in HIV testing in Primary Care since the previous analysis by Evans *et al* <sup>25</sup> on testing up to 2005, and therefore we can look at increased testing in primary care as an option to improve early HIV detection rates.

Meaning of the study: possible explanations and implications for clinicians and policymakers

Since 2015, UK and international treatment guidelines<sup>37</sup> for those diagnosed with HIV recommend immediate treatment with antiretroviral therapy (ART) due to findings from the START trial <sup>38</sup>. This change, together with pre-exposure prophylaxis (PrEP), has resulted in a decline in HIV infection rates for the last 2 years<sup>34</sup>. Nevertheless, there are still opportunities for diagnosing HIV earlier in Primary Care whilst testing rates remain very low. Current UK testing guidelines<sup>34</sup> recommend people attending General Practices in areas of high HIV prevalence should be offered an HIV test at registration or when having a blood test if they have not had an HIV test in the past 12 months. People newly diagnosed with an HIV indicator condition should also be offered an HIV test. The aim is to diagnose HIV earlier as late diagnosis of HIV is associated with increased morbidity and mortality. <sup>7,39,40</sup> There are benefits for diagnosing HIV earlier both for the individual in terms of quality of life and life expectancy<sup>6</sup> and a wider societal benefit of reduced transmission and lower

#### Unanswered questions and future research

NHS treatment costs.

Although it is a public health imperative, and target, to increase HIV testing and diagnosis, it is unclear how this could be implemented in Primary Care. A literature review undertaken of public and Health Care Professional (HCP) attitudes towards HIV testing in the UK showed that a proactive offer of an HIV test by the HCP was an important factor which could help increase testing rates.<sup>20</sup> Reasons for low levels of HIV testing by the HCP include fear/concern of offending patients, inadequate knowledge/training on HIV, low awareness of current testing guidelines, underestimation of patient risk, insufficient time, competing priorities, perceived burdensome consent process and pre-test discussion.<sup>18-20,41</sup> Studies indicate a need for education and training on HIV testing for HCP in Primary Care to overcome these barriers to testing.<sup>16,42</sup> Adequate interventions are needed to address these barriers so individuals can receive a timely HIV test and with it the important treatment benefits and care if found to be HIV positive. Another literature review has provided evidence that HIV indicator conditions have the potential to be used more effectively as triggers for earlier HIV testing<sup>43</sup>. Opt-out testing can facilitate increased HIV testing as

has been evident from a trial in emergency care setting<sup>44</sup>. When blood tests are carried out for any reason in primary care, there could also be an opt-out HIV test. Computer prompts based on risk algorithms are another strategy to support HIV testing<sup>45-49</sup> which could be based on electronic health records such as those in CPRD.

Although the results shown here are for a UK based population the methodology may be applicable to other healthcare systems. They provide accurate testing rates and detection rates in Primary Care which are measures of HIV testing that can be used for international comparisons. A key element for preventing transmission and late diagnosis of HIV is testing in Primary Care, based on a screening strategy or indicator conditions<sup>50</sup>. These data inform us of the current situation on testing and will be useful in planning and evaluating interventions to improve this.

The data on the discrepancy between PHE and CPRD prevalence of HIV positive status being recorded is another finding of importance for planning. New testing strategies such as home test and rapid testing outside of standard health care settings may contribute to the decrease in testing in Primary Care. These need to have a strategy in their delivery to feed back to Primary Care to maximise the benefits to patients and their health networks.

#### **Conclusions**

HIV testing rates have declined in Primary Care in all age groups, although there has been a fall in late presentation. HIV testing rates are highest in London, and higher in urban areas than rural areas. Increased testing would likely increase the number of positive tests and help prevent late diagnosis. Further interventions to increase selectivity of testing (positive cases per test) may be required, either at the individual level using risk factors and HIV indicator conditions or at the practice level using knowledge of local HIV prevalence.

#### **Contributor and guarantor information**

MG and MM planned the research study and were responsible for study design. JM and TJ advised on study design. CD applied for ethics approval and did the literature search. TJ and CD obtained data from CPRD and helped with coding and extracting data. SM was responsible for statistical analyses, tables and graphs. MM, SM and MG wrote the first draft of the paper. All authors contributed to writing and revising the paper and agreed to submission. MM acts as guarantor for the conduct of the study, had full access to the data and made decision to publish.

#### **Ethics approval**

The protocol was submitted to and approved by the independent scientific advisory committee for the CPRD (protocol ISAC number 16\_172A). The study was approved by the South West, Frenchay, Research Ethics Committee on the 19/09/2016 (REC reference 16/SW/0286).

#### **Transparency statement**

Margaret May affirms that the manuscript is an honest, accurate and transparent account of the study, and that no important aspects of the study have been omitted. The sponsor had no role in research or decision to publish.

#### **Competing Interests statement**

No authors have any competing interests.

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#### Data sharing

No additional data is available as use of the data was licensed by CPRD and therefore cannot be shared further.

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Table 1: Patient and practice demographics

Demographic Variable	Group	Frequency	Percentage (%)
Gender	Males	2,871,884	48.03
	Females	3,107,562	51.97
	Other/Unknown	152	0.00
Age (in 2015)	16-44	2,684,443	44.89
	>44	3,295,155	55.11
Ethnicity	Asian	147,295	2.46
	Black African	45,632	0.76
	Black Caribbean	28,558	0.48
	Other	118,934	1.99
	White	3,328,189	55.66
	Unknown	2,310,990	38.65
Region	Outside London	4,693,116	78.49
	London	1,129,924	18.90
	Unknown	156,558	2.62
Urban/Rural	Urban(Conurbation)	2,134,497	35.70
	Urban(City/Town)	2,991,079	50.02
	Rural	697,452	11.66
	Unknown	156,558	2.62
Patient IMD (2015) 1=least deprived,,	Quintile 1	1,285,213	21.49
5=most deprived,,	Quintiles 2,3,4	3,564,936	59.62
	Quintile 5	964,853	16.14
	Unknown	164,596	2.75
Practice IMD (2015) 1=least deprived,,	Quintile 1	1,249,293	20.89
5=most deprived	Quintiles 2,3,4	3,702,313	61.92
	Quintile 5	871,434	14.57
	Unknown	156,558	2.62

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Table 2: Testing rates (per 100,000 person years) for **males** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015.

				London			9		
<u> </u>		2005			2010		24	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Raŧe (95% CI)	IRR (95% CI)	p-valu
Overall	133 (117, 148)	-	-	273 (251, 295)	-	-	24&(225, 266)	-	-
Age							em		
16-44	175 (151, 198)	1	10.0004	366 (333, 400)	1	.0.0004	30 <b>8</b> (272, 336)	1	-0.000
>=45	75 (56, 93)	0.43 (0.33, 0.56)	<0.0001	151 (127, 176)	0.41 (0.34, 0.50)	<0.0001	180 (154, 206)	0.59 (0.50, 0.71)	<0.000
Ethnicity							019		
White	102 (80, 125)	1		240 (206, 275)	1		222 (187, 256)	1	
Asian	152 (73, 232)	1.49 (0.85, 2.62)	.0.004	329 (220, 438)	1.37 (0.95, 1.96)	0.0004	16 (88, 247)	0.76 (0.47, 1.22)	
Black African	669 (361, 977)	6.53 (3.93, 10.85)	<0.0001	1227 (849, 1605)	5.10 (3.63, 7.18)	<0.0001	919 602, 1236)	4.15 (2.84, 6.06)	<0.000
Black Caribbean	216 (432, 389)	2.11 (0.92, 4.82)		361 (148, 574)	1.50 (0.82, 2.76)		528(267, 779)	2.36 (1.42, 3.95)	
Patient IMD (2015)*							ed		
Quintile 1	160 (119, 202)	1		207 (159, 254)	1			1	
Quintiles 2,3,4	120 (102, 139)	0.75 (0.56, 1.01)	0.0912	252 (226, 279)	1.22 (0.95, 1.57)	< 0.0001	17∄(155, 198)	0.88 (0.68, 1.14)	<0.000
Quintile 5	155 (114, 195)	0.96 (0.67, 1.40)		415 (351, 480)	2.01 (1.53, 2.65)		565 (487, 643)	2.82 (2.16, 3.68)	
	, , ,	, , ,		Outside Lond			<del>                                     </del>	, , ,	
		2005			2010		Dn On	2015	
	Rate (95% CI)	IRR (95% C.I.)	p-value	Rate (95% CI)	IRR (95% C.I.)	p-value	Race (95% CI)	IRR (95% C.I.)	p-valu
Overall	65 (60, 70)	-	-	106 (100, 112)		-	64 (60, 69)	-	-
Age							n.br		
16-44	95 (87, 103)	1	10.0004	161 (150, 172)	1	.0.0004	100 (91, 109)	1	-0.000
>=45	34 (29, 39)	0.36 (0.30, 0.42)	<0.0001	54 (48, 60)	0.34 (0.30, 0.38)	<0.0001	3 (32, 42)	0.37 (0.32, 0.43)	<0.0001
Ethnicity							0		
White	63 (57, 69)	1		100 (92, 108)	1		63 (57, 70)	1	
Asian	159 (89, 229)	2.52 (1.61, 3.94)	.0.004	336 (245, 427)	3.36 (2.55, 4.44)		200 (135, 266)	3.16 (2.25, 4.45)	
Black African	579 (221, 937)	9.17 (4.90, 17.16)	<0.0001	1321 (859, 1783)	13.24 (9.23, 18.97)		584 (289, 878)	9.22 (5.51, 15.44)	
Black Caribbean	185 (37, 366)	2.93 (1.09, 7.83)		506 (156, 856)	5.06 (2.86, 8.96)		202 (25, 379)	3.19 (1.32, 7.70)	
Patient IMD (2015)*		, , ,		, , ,			20.	, , ,	
Quintile 1	60 (51, 69)	1		98 (87, 110)	1		6 <del>1</del> (52, 70)	1	
Quintiles 2,3,4	60 (54, 66)	1.0 (0.84, 1.20)	0.0002	94 (87, 101)	0.96 (0.83, 1.10)	< 0.0001	5 <del>§</del> (48, 59)	0.87 (0.73, 1.04)	<0.000
Quintile 5	89 (75, 104)	1.49 (1.20, 1.86)		163 (145, 182)	1.66 (1.41, 1.96)		16 (99, 131)	1.89 (1.55, 2.31)	
Urban/Rural class	- ( -,,	- ( -,,		( -,)	,,		<u>8</u>	(,,	
Conurbation	65 (55, 76)	1		144 (129, 159)	1		9 <del>1d</del> (79, 102)	1	
City/Town	69 (63, 75)	1.05 (0.88, 1.26)	0.0045	100 (93, 107)	0.70 (0.61, 0.79)	<0.0001	69 (54, 65)	0.66 (0.56, 0.77)	<0.000
//	47 (37, 58)	0.72 (0.55, 0.95)		75 (62, 88)	0.52 (0.43, 0.64)		49 (39, 60)	0.55 (0.43, 0.70)	2.200

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Table 3: Testing rates (per 100000 person years) for **females** and incidence rate ratios (IRR) with 95% CI for years 2005, 2010, 2015 (antenatal testing oxelydad) excluded)

				Lond	on		on 2.		
		2005			2010		Z	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Rate ₹95% CI)	IRR (95% CI)	p-value
Overall	139 (123, 155)	-	-	309 (285, 332)	-	-	243 (223, 264)	-	-
Age							ber		
16-44	216 (189, 242)	1	.0.0004	479 (440, 517)	1	0.0004	327 ( <b>29</b> 5, 360)	1	.0.0004
>=45	39 (26, 52)	0.18 (0.13, 0.26)	<0.0001	93 (74, 112)	0.19 (0.16, 0.24)	<0.0001	150 ( <b>12</b> 7, 173)	0.46 (0.38, 0.55)	<0.0001
Ethnicity							D		
White	120 (100, 140)	1		270 (239, 301)	1		170 ( <b>ફ</b> 44, 195)	1	
Asian	199 (117, 280)	1.65 (1.09,2.51)	-0.0004	261 (183, 339)	0.97 (0.70, 1.33)	-0.0004	190 (\$\frac{1}{2}6, 254)	1.12 (0.78, 1.62)	-0.0004
Black African	415 (234, 596)	3.46 (2.21 5.43)	<0.0001	825 (602, 1048)	3.06 (2.29, 4.08)	<0.0001	728 (\$\frac{\oldsymbol{\infty}}{22}7, 929)	4.30 (3.13, 5.87)	<0.0001
Black Caribbean	248 (96, 400)	2.06 (1.15, 3.72)		438 (260, 617)	1.63 (1.06, 2.48)		399 (221, 578)	2.35 (1.50, 3.70)	
Patient IMD (2015)*							fro		
Quintile 1	153 (112, 194)	1		172 (130, 215)	1		156 (₹15, 197)	1	
Quintiles 2,3,4	125 (106, 143)	0.82 (0.60, 1.10)	0.0278	284 (258, 311)	1.65 (1.27, 2.14)	< 0.0001	195 (‡73, 218)	1.25 (0.95, 1.66)	< 0.0001
Quintile 5	183 (138, 227)	1.19 (0.84, 1.71)		539 (463, 615)	3.13 (2.37, 4.14)		520 (448, 592)	3.33 (2.50, 4.46)	
				Outside I	ondon		n N		
		2005			2010		9	2015	
	Rate (95% CI)	IRR (95% CI)	p-value	Rate (95% CI)	IRR (95% CI)	p-value	Rate 👭 5% CI)	IRR (95% CI)	p-value
Overall	67 (62, 71)	-	-	117 (111, 123)	1/0.	-	83 (38, 89)	-	-
\ge							ıj.c		
L6-44	118 (108, 127)	1	<0.0001	216 (204, 229)	1	<0.0001	160 ( <mark>全</mark> 48, 171)	1	<0.0001
=45	21 (17,24)	0.18 (0.15, 0.21)	<0.0001	34 (29, 38)	0.16 (0.14, 0.18)	<0.0001	29 (25, 33)	0.18 (0.16, 0.21)	<0.0001
thnicity							n A		
White	67 (61, 72)	1		117 (110, 125)	1		77 🔄 1, 83)	1	
Asian	188 (123, 252)	2.82 (2.01, 3.95)	<0.0001	357 (284 <i>,</i> 430)	3.04 (2.46, 3.77)	<0.0001	207 (155, 259)	2.69 (2.07, 3.50)	<0.0001
Black African	515 (270, )	7.33 (4.77, 12.53)	<0.0001	829 (563, 1094)	7.07 (5.13,9.73)	<0.0001	432 (249, 616)	5.63 (3.71, 8.53)	<0.0001
Black Caribbean	235 (61, 409)	3.53 (1.68, 7.44)		778 (468, 1087)	6.63 (4.49, 9.79)	4	489 (🏞 7, 721)	6.36 (3.93, 10.30)	
atient IMD (2015)*							4		
Quintile 1	64 (54 <i>,</i> 73)	1		95 (84 <i>,</i> 106)	1		71 (§1, 81)	1	
Quintiles 2,3,4	61 (55 <i>,</i> 67)	0.97 (0.81, 1.15)	0.0001	95 (88, 102)	1.00 (0.87, 1.15)	< 0.0001	72 <b>(5</b> 5, 78)	1.01 (0.86, 1.19)	< 0.0001
Quintile 5	92 (77, 107)	1.45 (1.17, 1.79)		241 (218, 265)	2.54 (2.19, 2.95)		152 ( <b>‡</b> 34, 170)	2.15 (1.80, 2.57)	
Jrban/Rural class							P		
Conurbation	54 (45 <i>,</i> 64)	1		165 (148, 181)	1		120 ( <del>\$</del> 6, 133)	1	
City/Town	72 (66, 78)	1.33 (1.10, 1.60)	0.0078	108 (101, 116)	0.66 (0.59, 0.74)	< 0.0001	77 ( <del>Å</del> 0, 83)	0.64 (0.56, 0.74)	< 0.0001

<sup>\*1=</sup>least deprived - 5=most deprived

Table 4: Prevalence (with 95% CI) of diagnosed HIV recorded in CPRD (per 100,000 persons) by gender, age, ethnicity and patient IMD, for London and outside London.

	Loi	ndon	
		Prevalence (95% CI)	
	2005	2010	2015
All	140 (129, 151)	230 (216, 244)	282 (267, 297)
Gender			
Males	191 (172, 209)	294 (271, 317)	369 (344, 395)
Females	91 (78, 103)	170 (153, 187)	199 (181, 217
Age			
16-44	168 (152, 184)	234 (215, 253)	229 (210, 249)
>44	103 (88, 117)	226 (205, 247)	341 (316, 365)
Ethnicity			
White	127 (112, 143)	183 (164, 202)	224 (202, 246)
Asian	45 (17, 72)	84 (50, 119)	96 (60, 131)
Black African	1465 (1205, 1726)	2350 (2055, 2646)	2597 (2294, 2899)
Black Caribbean	195 (97, 294)	431 (291, 572)	538 (381, 695)
Patient IMD (2015)			
Quantile 1	32 (19, 45)	86 (65, 107)	121 (96, 146)
Quantiles 2,3,4	136 (122, 149)	212 (195, 228)	256 (238, 274)
Quantile 5	268 (230, 306)	444 (397, 491)	544 (492, 596)
	Outside	e London	
		Prevalence (95% CI)	
	2005	2010	2015
All	38 (36, 41)	64 (61, 67)	81 (77, 85)
Gender			
Males	50 (46, 54)	81 (76, 86)	105 (99, 110)
Females	26 (23, 29)	48 (44, 52)	58 (54, 62)
Age			
16-44	55 (51, 59)	78 (72, 83)	82 (76, 87)
>44	22 (19, 25)	52 (48, 56)	80 (76, 85)
Ethnicity			
White	29 (26, 32)	46 (43, 50)	60 (56, 64)
Asian	37 (16, 59)	40 (21, 59)	55 (34, 76)
Black African	2537 (2110, 2964)	3663 (3236, 4091)	3933 (3514, 4353)
Black Caribbean	135 (35, 236)	347 (195, 499)	484 (308, 660)
Patient IMD (2015)			
Quantile 1	19 (16, 23)	31 (26, 35)	42.58 (37, 48)
Quantiles 2,3,4	35 (32, 38)	60 (56, 65)	77 (72, 81)
Quantile 5	82 (72, 91)	132 (121, 144)	159 (146, 172)

Figure legends:

Figure 1: Trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

Figure 2: Trend in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.



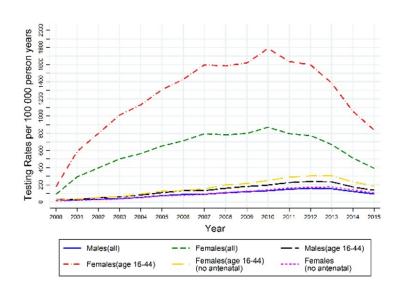


Figure 1 : Trend in HIV testing rates per 100,000 person years for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing

90x90mm (300 x 300 DPI)

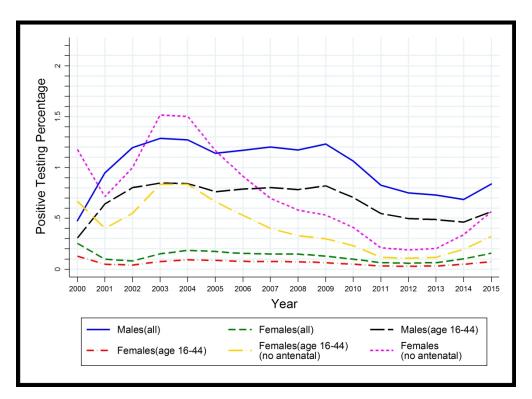
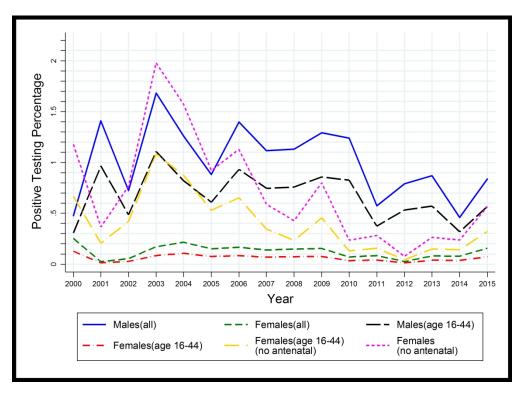


Figure 2: Trend in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)



Supplementary figure: Trend (unsmoothed graph) in the percentage of HIV tests that were positive for the period 2000-2015 by gender and age group, with and without inclusion of antenatal testing.

283x207mm (300 x 300 DPI)

### Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 2015

#### **Supplementary tables**

Supplementary table 1: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults >16 years).

Males, all			_		Female	s, all	Females, excluding antenatal			
Year	N	Rate	95% C.I.		N	Rate	95% C.I.	N	Rate	95% C.I.
2000	1277056	16.4	(14.2 , 18.7)		1332528	89.0	(83.9 , 94.1)	1331517	12.8	(10.8 , 14.7)
2001	1299140	21.9	(19.3 , 24.4)		1352604	293.1	(283.9 , 302.3)	1348950	20.2	(17.8 , 22.7)
2002	1317701	31.4	(28.3 , 34.5)		1367949	396.3	(385.7 , 406.9)	1363158	28.7	(25.8 , 31.6)
2003	1341378	39.9	(36.5 , 43.3)		1388107	501.9	(490.0, 513.7)	1382140	36.5	(33.3 , 39.8)
2004	1359662	52.5	(48.6 , 56.4)		1403681	563.0	(550.5 , 575.5)	1397351	54.7	(50.7 , 58.7)
2005	1374451	74.2	(69.6 <i>,</i> 78.8)		1418325	653.1	(639.7 , 666.6)	1411272	77.0	(72.3 , 81.6)
2006	1390451	87.5	(82.5 , 92.4)		1433622	711.6	(697.7 , 725.6)	1426111	80.9	(76.0 , 85.7)
2007	1405428	89.4	(84.3 , 94.4)		1447828	795.2	(780.5 , 809.9)	1439651	94.3	(89.1 , 99.4)
2008	1409645	106.6	(101.1 , 112.1)		1455081	781.9	(767.4 , 796.5)	1447676	113.1	(107.4 , 118.7)
2009	1418613	120.0	(114.3 , 125.8)		1463654	797.9	(783.2 , 812.6)	1456530	128.6	(122.6 , 134.6)
2010	1424751	130.2	(124.2 , 136.2)		1470650	870.7	(855.4, 886.0)	1463009	145.3	(139.0 , 151.6)
2011	1421140	147.2	(140.8 , 153.6)		1474837	795.9	(781.2 , 810.5)	1468256	169.0	(162.1 , 175.8)
2012	1427981	159.5	(152.9 , 166.2)		1482930	772.8	(758.4 , 787.1)	1476875	176.7	(169.7 , 183.6)
2013	1430211	152.9	(146.4 , 159.4)		1486620	669.5	(656.2 , 682.9)	1481702	178.9	(171.9 , 185.9)
2014	1436279	121.6	(115.8 , 127.4)		1487194	511.7	(500.1,523.4)	1483581	141.8	(135.6 , 148.1)
2015	1421880	92.5	(87.4 , 97.6)		1472023	391.5	(381.2 , 401.7)	1469400	108.4	(103.0 , 113.9)

Supplementary table 2: HIV testing rates (per 100,000 person years) for years 2000-2015 (adults aged 16-44 years).

	Males, all			Females, all			Females, excluding antenatal			
Year	N	Rate	95% C.I.	N	Rate	95% C.I.	N	Rate	95% C.I.	
2000	671088	25.5	(21.6 , 29.4)	655488	177.4	(167.2 , 187.7)	654477	22.5	(18.8 , 26.1)	
2001	681216	31.9	(27.6 , 36.2)	665358	589.8	(571.2 , 608.3)	661708	35.8	(31.2 , 40.4)	
2002	688746	46.8	(41.5,52.0)	672213	799.5	(778.0,821.0)	667427	52.3	(46.7 , 57.8)	
2003	698982	60.5	(54.7,66.4)	681748	1012.9	(989.0 , 1036.9)	675788	66.7	(60.5 , 73.0)	
2004	706120	80.9	(74.1 , 87.6)	688504	1132.5	(1107.2 , 1157.8)	682186	98.4	(90.7 , 106.1)	
2005	710489	107.4	(99.7 , 115.1)	694232	1308.9	(1281.8 , 1335.9)	687190	134.0	(125.2 , 142.8)	
2006	714842	131.1	(122.6 , 139.6)	700086	1428.5	(1400.4 , 1456.7)	692589	139.8	(130.7 , 148.8)	
2007	717434	133.5	(124.9 , 142.2)	704167	1598.2	(1568.4 , 1627.9)	696009	160.6	(151.0 , 170.3)	
2008	711542	159.1	(149.7 , 168.5)	702985	1586.6	(1556.9 , 1616.3)	695600	206.5	(195.4 , 217.5)	
2009	708782	181.0	(170.9 , 191.1)	700970	1618.4	(1588.3 , 1648.5)	693867	225.9	(214.3 , 237.4)	
2010	702732	195.7	(185.2 , 206.2)	696368	1789.0	(1757.3 , 1820.6)	688743	262.4	(250.0 , 274.7)	
2011	690732	225.9	(214.5 , 237.2)	689820	1636.2	(1605.6, 1666.7)	683258	301.1	(287.7 , 314.5)	
2012	685037	236.9	(225.3 , 248.6)	685234	1598.0	(1567.8 , 1628.2)	679201	313.2	(299.6 , 326.8)	
2013	675812	232.6	(221.0 , 244.2)	677984	1385.4	(1357.0 , 1413.7)	673088	315.1	(301.4 , 328.9)	
2014	668263	174.8	(164.6 , 185.0)	667048	1056.2	(1031.2 , 1081.2)	663464	238.6	(226.5 , 250.8)	
2015	639033	136.6	(127.4 , 145.9)	638248	839.3	(816.5 , 862.1)	635636	190.1	(179.0 , 201.1)	

Trends in HIV testing in the UK Primary Care setting: A 15 year retrospective cohort study 2000 to 

**Supplementary Material** 

Page 2 Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans et al 2009<sup>26</sup>)

es denotives recording de la companya de la company Page 3 Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans et al 2009<sup>26</sup>).

Page 4 Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson et al 50)

Appendix 1: Read & OXMIS codes denoting an HIV test used to identify patients who have ever had a HIV test recorded in primary care (Evans *et al* 2009<sup>26</sup>)

	READ/		Certainty of
Code	OXMIS	Code description	HIV+ test
6827.11	READ	HIV screening	Definite
43C00	READ	HTLV-3 antibody test	Definite
43C11	READ	Aids antibody test	Definite
43C12	READ	Human immunodefic.viral test	Definite
43C1.00	READ	Blood sent for HTLV-3 serology	Definite
43C2.00	READ	HTLV-3 antibody negative	Definite
43C2.11	READ	HIV negative	Definite
43CZ.00	READ	HTLV-3 antibody NOS	Definite
43d5.00	READ	HIV antibody/antigen (Duo)	Definite
43d6.00	READ	HTLV 1 antibody level	Ambiguous
43dc.00	READ	HTLV 2 antibody level	Ambiguous
43h2.00	READ	HIV 1 PCR	Definite
43j7.00	READ	HIV 1 nucleic acid detection	Definite
43V1.00	READ	Absolute CD4 count	Definite
43VE.00	READ	CD4/CD8 ratio	Definite
43VH.00	READ	Percentage CD4 count	Definite
43Vo.00	READ	Absolute CD4 (T4 cells) count	Definite
43Vp.00	READ	Percentage CD4 (T4 cells) count	Definite
43W7.00	READ	HIV1 antibody level	Definite
43W8.00	READ	HIV2 antibody level	Definite
43WK.00	READ	Human immunodeficiency virus antibody level	Definite
4J34.00	READ	HIV viral load	Definite
4J35.00	READ	HIV p24 antigen level	Definite
4JDT.00	READ	HIV serology	Definite
4JR7.00	READ	HIV screening test	Definite
62b00	READ	Antenatal HIV screening	Definite
6827.00	READ	AIDS (HTLV-III) screening	Definite
		[D]Laboratory evidence of human immunodefiency virus	
R109.00	READ	[HIV]	Definite
ZV01800	READ	[V]Human immunodeficiency virus - negative	Definite
		[V]Special screening exam for human immunodefiency	
ZV73700	READ	virus	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
L 153	OXMIS	HTVL-AIDS-III ANTIBODY TEST	Definite
L1111NE	OXMIS	HIV ANTIBODY TEST NEGATIVE	Definite
L 153N	OXMIS	HTVL-AIDS-III ANTIBODY TEST NEGATIVE	Definite
65VE.00	READ	Notification of AIDS	Ambiguous
43j8.00	READ	HTLV 1 nucleic acid detection	Ambiguous

Appendix 2: Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care (Evans *et al* 2009<sup>26</sup>).

Code	Read/ OXMIS	Code description	Certainty of HIV+ status
65QA.00	READ	AIDS carrier	Definite
A789700	READ	HIV disease resulting other ypes of non-Hodgkin's lymphoma	Definite
A789800	READ	HIV disease resulting in multiple malignant neoplasms	Definite
A788.00	READ	Acquired immune deficiency syndrome	Definite
A788500	READ	Human immunodeficiency virus with secondary infection	Definite
A788X00	READ	HIV disease resulting/unspcf infectious+parasitic disease	Definite
A789200	READ	HIV disease resulting in candidiasis	Definite
A789500	READ	HIV disease resulting in Kaposi's sarcoma	Definite
AyuC100	READ	[X]HIV disease resulting in other viral infections	Definite
AyuC700	READ	[X]HIV dis reslt/oth mal neopl/lymph,h'matopoetc+reltd tissu	Definite
A788000	READ	Acute human immunodeficiency virus infection	Definite
A788100	READ	Asymptomatic human immunodeficiency virus infection	Definite
A789300	READ	HIV disease resulting in Pneumocystis carinii pneumonia	Definite
A789600	READ	HIV disease resulting in Burkitt's lymphoma	Definite
A798.00	READ	Retrovirus infection	Definite
AyuC200	READ	[X]HIV disease resulting in other mycoses	Definite
AyuCA00	READ	[X]HIV disease resulting in multiple diseases CE	Definite
		HIV disease result/haematological+immunologic	
A788U00	READ	abnorms,NEC	Definite
A789.00	READ	Human immunodef virus resulting in other disease	Definite
AyuC000	READ	[X]HIV disease resulting in other bacterial infections	Definite
AyuC800	READ	[X]HIV disease resulting in other malignant neoplasms	Definite
43C3.11	READ	HIV positive	Definite
A788y00	READ	Human immunodeficiency virus with other clinical findings	Definite
Eu02400	READ	[X]Dementia in human immunodef virus [HIV] disease	Definite
		[V]Asymptomatic human immunodeficency virus infection	2 0
ZV01A00	READ	status	Definite
A789400	READ	HIV disease resulting in multiple infections	Definite
AyuC500	READ	[X]HIV disease resulting/unspcf infectious+parasitic disease	Definite
AyuC900	READ	[X]HIV disease resulting in unspecified malignant neoplasm	Definite
AyuCC00	READ	[X]HIV disease resulting in other specified conditions	Definite
43C3.00	READ	HTLV-3 antibody positive	Definite
A788W00	READ	HIV disease resulting in unspecified malignant neoplasm	Definite
A789X00	READ	HIV dis resit/oth mal neopl/lymph,h'matopoetc+	Definite
AyuC300	READ	[X]HIV disease resulting in multiple infections	Definite
AyuC400	READ	[X]HIV disease resulting/other infectious+parasitic diseases	Definite
AyuC600	READ	[X]HIV disease resulting in other non-Hodgkin's lymphoma	Definite
A788600	READ	Human immunodeficiency virus with secondary cancers	Definite
7170000	T(E/T)	Acquired human immunodeficiency virus infection syndrome	Demine
A788z00	READ	NOS	Definite
A788200 A789A00	READ	HIV disease resulting in wasting syndrome	Definite
65VE.00	READ	Notification of AIDS	Definite
A788.11	READ	Human immunodeficiency virus infection	Definite
A788200	READ	HIV infection with persistent generalised lymphadenopathy	Definite
A788300	READ	Human immunodeficiency virus with constitutional disease	Definite
A788400	READ	Human immunodeficiency virus with neurological disease	Definite
~/ 00 <del>4</del> 00	NEAD	maman inimunouenciency virus with heurological disease	שווווונפ

## Appendix 2 (CONT'D): Read & OXMIS codes denoting HIV positive status used to identify HIV positive patients who have their HIV positive status recorded in primary care.

	Read/		Certainty of
Code	OXMIS	Code description	HIV+ status
A788V00	READ	HIV disease resulting in multiple diseases CE	Definite
A789100	READ	HIV disease resulting in cytomegaloviral disease	Definite
AyuC.00	READ	[X]Human immunodeficiency virus disease	Definite
AyuCD00	READ	[X]Unspecified human immunodeficiency virus [HIV] disease	Definite
A789000	READ	HIV disease resulting in mycobacterial infection	Definite
A789900	READ	HIV disease resulting in lymphoid interstitial pneumonitis	Definite
AyuCB00	READ	[X]HIV disease result/haematological+immunologic abnorms,NEC	Definite
R109.00	READ	[D]Laboratory evidence of human immunodefiency virus [HIV]	Definite
ZV01A00	READ	[V]Asymptomatic human immunodeficency virus infection status	Definite
799MD	OXMIS	AIDS	Definite
799CA	OXMIS	AIDS CARRIER	Definite
L1111PV	OXMIS	HIV ANTIBOBY TEST POSITIVE	Definite
L7990A	OXMIS	ACQUIRED IMMUNE DEFICIENCY SYNDROME	Definite
L 153P	OXMIS	HTVL-AIDS-III ANTIBODY TEST POSITIVE	Definite
43V1.00	READ	Absolute CD4 count	Ambiguous
AyuD800	READ	[X]Retrovirus infections, not elsewhere classified	Ambiguous
AyuKM00	READ	[X]Retrovirus/cause of diseases classified to other chapters	Ambiguous
43VE.00	READ	CD4/CD8 ratio	Ambiguous
A7y0100	READ	Retrovirus as cause of diseases classified to other chapters	Ambiguous
43VH.00	READ	Percentage CD4 count	Ambiguous
4J34.00	READ	HIV viral load	Ambiguous
4J35.00	READ	HIV p24 antigen level	Ambiguous
43h2.00	READ	HIV 1 PCR	Ambiguous
43j7.00	READ	HIV 1 nucleic acid detection	Ambiguous
43Vo.00	READ	Absolute CD4 (T4 cells) count	Ambiguous
43Vp.00	READ	Percentage CD4 (T4 cells) count	Ambiguous

# Appendix 3: Pregnancy/Delivery/Abortion medcodes (Jackson *et al* <sup>50</sup>)

medcode	readcode	readterm
52685	ZV23000	[V]Pregnancy with history of infertility
3030	4654	Urine pregnancy test positive
73535	L13z100	Unspecified pregnancy vomiting - delivered
53514	Z22D300	Uncertain viability of pregnancy
11422	Z226.00	Pregnancy problem
20623	ZV4J000	[V]Problems related to unwanted pregnancy
99247	L13y200	Other pregnancy vomiting - not delivered
56451	L13zz00	Unspecified pregnancy vomiting NOS
14644	L166z11	UTI - urinary tract infection in pregnancy
32975	6166	Pregnant, diaphragm failure

	1 765 00	Small-tor-dates tetus in pregnancy
23495 3766	L265.00 L1000	Small-for-dates fetus in pregnancy  Haemorrhage in early pregnancy
56953	Z235400	Pendulous pregnant abdomen
40279	7E19012	Fimbrial extraction of tubal pregnancy
29122	7E19012	Removal of ectopic pregnancy from fallopian tube
1748	7E08400	Suction termination of pregnancy
106170	L21zz00	Multiple pregnancy NOS
5357	7E08500	Dilation of cervix and extraction termination of pregnancy
14899	621Z.00	Patient pregnant NOS
61563	L161300	Oedema or excessive weight gain in pregnancy - not delivered
64523	L091z00	Delayed/excess haemorrhage NOS following abortive pregnancy
20621	ZV25313	[V]Admission for termination of pregnancy
20021	ZV25313 ZV25311	[V]Admission for termination of pregnancy (TOP)
		, , ,
	•	·
		, , ,
	•	
54866	L030.00	
38882	L123600	
61995	L03yz00	
5044	13H7.00	Unwanted pregnancy
	Z22AD11	
38882 61995	L263A11 6174 L1500 Q0z00 L13y.00 L123000 L168400 L093.00 9mK0.00 6294 L181100 L030.00 L123600 L03yz00 13H7.00	Glycosuria during pregnancy - delivered Liver disorder in pregnancy - not delivered Incomplete termination of pregnancy Pregnancy advice NOS Fetal death due to termination of pregnancy Pertussis vaccination in pregnancy Serum pregnancy associated plasma protein-A MoM measurement Delayed/excessive haemorrhage following abortive pregnancy Post-term pregnancy NOS Triplet pregnancy NOS Undiagnosed pregnancy Iron deficiency anaemia of pregnancy Triplet pregnancy unspecified Low risk pregnancy Pregnancy associated plasma protein A level Maternal care for reduced fetal heart rate during pregnancy Pregnant, sheath failure Prolonged or post-term pregnancy Maternal problem unrelated preg affecting fetus/neonate NOS Other pregnancy vomiting Transient hypertension of pregnancy unspecified Fatigue during pregnancy with postnatal complication Renal failure following abortive pregnancy Pertussis vaccination in pregnancy invitation first letter No A/N care: not known preg. Thyroid dysfunction during pregnancy - baby delivered Abdominal pregnancy Transient hypertension of pregnancy Other ectopic pregnancy NOS Unwanted pregnancy Reported conception - pregnancy

21467	L03y200	Membranous pregnancy
48304	L10z200	Early pregnancy haemorrhage NOS - not delivered
37693	13Hd.00	Teenage pregnancy
27980	L166700	Infections of the genital tract in pregnancy
2638	L100	Pregnancy complications
99933	L092100	Bowel damage following abortive pregnancy
41122	L10zz00	Early pregnancy haemorrhage NOS
37348	Lyu2500	[X]Other specified pregnancy-related conditions
96757	L411513	Vulval varices in pregnancy
59634	L411512	Vaginal varices in pregnancy
99237	L411511	Perineal varices in pregnancy
27451	L166000	Genitourinary tract infection in pregnancy unspecified
110129	6556000	Pertussis vacc in pregnancy given by other healthcre providr
107485	Q014000	Fetus or neonate affected by unspecified ectopic pregnancy
18258	L167.00	Liver disorder in pregnancy
42015	L16y.00	Other pregnancy complications
25028	L09z.00	Complication NOS following abortion/ectopic/molar pregnancy
44734	6208.00	Pregnancy prolonged - 42 weeks
23831	ZV22y00	[V]Other specified pregnant state
41587	L210z00	Twin pregnancy NOS
24063	6207.00	Pregnancy prolonged - 41 weeks
44650	L0y00	Other specified pregnancy with abortive outcome
61284	L210200	Twin pregnancy with antenatal problem
54288	Z22D311	Query viability of pregnancy
34938	L212.00	Quadruplet pregnancy
102494	8Hh3.00	Self referral to termination of pregnancy service
1686	7E08600	Termination of pregnancy NEC
70214	L21z100	Multiple pregnancy NOS - delivered
64247	Z235.00	Observation of shape of pregnant abdomen
23751	L266.00	Large-for-dates fetus in pregnancy
39359	L385.00	Failed or difficult intubation during pregnancy
64500	L183.11	Pregnancy and drug dependence
73917	L10y200	Other haemorrhage in early pregnancy - not delivered
255	L0512	Termination of pregnancy
15433	L2100	Multiple pregnancy
20439	L123.00	Transient hypertension of pregnancy
16775	L16E.00	Pregnancy pruritus
53921	L161000	Oedema or excessive weight gain in pregnancy, unspecified
44770	L191.00	Continuing pregnancy after abortion of one fetus or more
29205	4453	Serum pregnancy test positive
46577	66AX.00	Diabetes: shared care in pregnancy - diabetol and obstet
73455	Q015200	Fetus or neonate affected by triplet pregnancy
41625	L13yz00	Other pregnancy vomiting NOS
60345	M240500	Alopecia of pregnancy
107957	115V.00	No history of ectopic pregnancy

6580	ZV23800	[V]Supervision of high-risk pregnancy due to social problems
61182	L211100	Triplet pregnancy - delivered
30365	Z22AA00	Wanted pregnancy
26852	ZV23400	[V]Pregnancy with other poor obstetric history
30817	6212	Pregnant - blood test confirms
72014	L212z00	Quadruplet pregnancy NOS
12521	L161.11	Excessive weight gain in pregnancy
41959	L171300	Maternal gonorrhoea in pregnancy - baby not yet delivered
26201	Z22AC00	Pregnancy with uncertain dates
49519	Z22AC00 Z229.00	Observation of position of pregnancy
107713	L21y200	Other multiple pregnancy with antenatal problem
36235	67A4.00	Pregnancy exercise advice
105511	L21z.00	Multiple pregnancy NOS
65783	L030000	
106267		Delivery of viable fetus in abdominal pregnancy
2278	L03y300 8M600	Combined or heterotopic pregnancy  Requests pregnancy termination
110448		
	Lyu0.00	[X]Pregnancy with abortive outcome  Fetus or neonate affected by abdominal ectopic pregnancy
99006	Q014100	, , , , , ,
40357	L2D00	Retained intrauterine contraceptive device in pregnancy
54293	Q015.00	Fetus or neonate affected by multiple pregnancy
22557	Z22B100	Single pregnancy
15338	621A.00	Pregnancy unplanned ? wanted
6649	L166800	Urinary tract infection complicating pregnancy
49855	Q015100	Fetus or neonate affected by twin pregnancy
40825	Z22B800	Undiagnosed multiple pregnancy
35509	62400	A/N care: precious pregnancy
20197	L211.00	Triplet pregnancy
46270	ZV22z00	[V]Unspecified pregnant state
67098	L183300 L150.00	Drug dependence during pregnancy - baby not yet delivered
23373		Post-term pregnancy Twin pregnancy - delivered
1357	L210100	
45729	Z22D.00	Observation of viability of pregnancy
44733	L0z00	Pregnancy with abortive outcome NOS
11760	L13z.00	Unspecified pregnancy vomiting
18500 69686	Z22D100 L417000	Viable pregnancy
		Cerebral venous thrombosis in pregnancy
53661	L13z200	Unspecified pregnancy vomiting - not delivered
22183	95711	Prescription exempt form-preg
106378	9mK00	Pertussis vaccination in pregnancy invitation
12230	L263900	Maternal care for fetal tachycardia during pregnancy
22193	Z229100	Intrauterine pregnancy
15061	L1312	Hyperemesis of pregnancy
14877	621B.00	Pregnant - ? planned
27672	7E13100	Excision of ectopic ovarian pregnancy
1744	L0300	Ectopic pregnancy

5693	L16A.00	Glycosuria during pregnancy
36394	L16C.00	Pregnancy induced oedema+proteinuria without hypertension
73914	L412511	Thrombophlebitis of legs in pregnancy
53849	L16y000	Other pregnancy complication unspecified
105943	L165300	Asymptomatic bacteriuria in pregnancy - not delivered
36421	L167z00	Liver disorder in pregnancy NOS
25872	L16yz00	Other pregnancy complication NOS
60309	Q0y00	Maternal problems unrelated preg affecting fetus/neonate OS
67728	L150200	Post-term pregnancy - not delivered
28103	Z22A300	Concealed pregnancy
21849	L031.00	Tubal pregnancy
54577	L210000	Twin pregnancy unspecified
105654	L10y100	Other haemorrhage in early pregnancy - delivered
53685	L410500	Varicose veins of legs in pregnancy
68930	L168100	·
68840	L416200	Fatigue during pregnancy - delivered  Haemorrhoids in pregnancy and puerperium - deliv + p/n comp
53167 45862	L188300 7E07114	Abnormal GTT during pregnancy - baby not yet delivered
		Curettage of uterus for termination of pregnancy NEC
64366	L412500	Superficial thrombophlebitis in pregnancy
13968	584D.00	Antenatal ultrasound confirms intra-uterine pregnancy
14925	L10z.00 L185.11	Early pregnancy haemorrhage NOS
61935		Congenital heart disease in pregnancy
103059	7E07111	Curettage of term pregnancy NEC
16384	7E07113	Curettage of uterus for termination of pregnancy NEC
23421	615C.00	IUD failure - pregnant
3029	L166500	Infections of kidney in pregnancy
106517	L176100	Other maternal viral disease in pregnancy - baby delivered
40964	L192.00	Continuing preg after intrauterine death one fetus or more
	7F06012	Shirodkar suture in pregnancy
30302	7F12	Pregnancy operations
28107	L161.00	Oedema or excessive weight gain in pregnancy no hypertension
85960	44Cz.00	Plasma pregnancy associated plasma protein-A MoM
44057	ZV23111	[V]Pregnancy with history of hydatidiform mole
37573	Z22B900	Continuing pregnancy after abortion of sibling fetus
68694	Z22C.00	Observation of measures of pregnancy
49559	L180300	Diabetes mellitus during pregnancy - baby not yet delivered
29786	L416600	Haemorrhoids in pregnancy
57059	L187300	Orthopaedic disorder in pregnancy - baby not yet delivered
23334	L162.11	Albuminuria in pregnancy without hypertension
92579	L162.13	Uraemia in pregnancy without hypertension
38312	L162.12	Nephropathy NOS in pregnancy without hypertension
22215	Z22A200	High risk pregnancy
38346	ZV22000	[V]First normal pregnancy supervision
15318	6214	Pregnant - on history
41504	L13y000	Other pregnancy vomiting unspecified

72019	L132200	Late pregnancy vomiting - not delivered
37386	8B68.00	Pregnancy prophylactic therapy
60877	L263800	Maternal care for fetal decelerations during pregnancy
107225	L165z00	Asymptomatic bacteriuria in pregnancy NOS
54942	L123100	Transient hypertension of pregnancy - delivered
54701	ZV23y00	[V]Other specified high-risk pregnancy
63825 94804	Q014.00 67AB.00	Fetus or neonate affected by ectopic pregnancy
		Preg. prescription exempt adv.
72835	Q01z.00	Fetus/neonate affected by maternal complic pregnancy NOS
99008	Q014300	Fetus or neonate affected by tubal ectopic pregnancy
110868	L181000	Thyroid dysfunction - unspec whether in pregnancy/puerperium
66649	L41z500	Venous complication of pregnancy, unspecified
26286	L18A000	Cholestasis of pregnancy
17947	62a00	Pregnancy review
103104	L176300	Other maternal viral dis.in pregnancy-baby not yet delivered
109932	Z235211	Globular pregnant abdomen
68004	Q0100	Fetus/neonate affected by maternal complication of pregnancy
20240	6216	Pregnant - planned
65834	ZV23200	[V]Pregnancy with history of abortion
7916	Z254500	Delivered by caesarean section - pregnancy at term
21119	L182300	Anaemia during pregnancy - baby not yet delivered
9408	L10y.11	Bleeding in early pregnancy
64099	L168000	Fatigue during pregnancy unspecified
10278	L180800	Diabetes mellitus arising in pregnancy
2602	L166.11	Cystitis of pregnancy
13165	62100	Patient currently pregnant
9986	Z212.11	Pregnancy care
66594	L186.11	Heart disease during pregnancy
35158	Z225.00	Normal pregnancy
93800	Z235100	Ovoid pregnant abdomen
73727	L168z00	Fatigue during pregnancy NOS
55889	L175300	Maternal rubella during pregnancy - baby not yet delivered
7517	621C.00	Unplanned pregnancy
53908	Lyu0000	[X]Other ectopic pregnancy
34173	L12B.00	Proteinuric hypertension of pregnancy
35514	624Z.00	A/N care: precious preg. NOS
15065	8B711	Pregnancy vitamin/iron prophyl
109465	L184300	Mental disorder during pregnancy - baby not yet delivered
24038	13S00	Pregnancy benefits
16215	6211	Pregnant - urine test confirms
35592	6213	Pregnant - V.E. confirms
25254	Z2100	Care relating to reproduction and pregnancy
46609	Z22C800	Number of lost pregnancies
29692	615C.11	Pregnant, IUD failure
50440	Z22A500	Biochemical pregnancy

FC2F2	7\/22100	[V]O+
56252	ZV22100	[V]Other normal pregnancy supervision
21196	ZV23.00	[V]High-risk pregnancy supervision
30618	Z22AB00	Unplanned pregnancy
10775	8B74.00	Iron supplement in pregnancy
48534	ZV23100	[V]Pregnancy with history of trophoblastic disease
73559	L13z000	Unspecified pregnancy vomiting unspecified
13984	584E.00	Antenatal ultrasound confirms ectopic pregnancy
9754	Z22A400	Early stage of pregnancy
67893	L2C00	Malnutrition in pregnancy
70993	L16Az00	Glycosuria during pregnancy NOS
23438	L2z00	Risk factors in pregnancy NOS
105694	ZVu2300	[X]Supervision of other normal pregnancy
53097	Z22C313	Duration of pregnancy
58156	L03y.00	Other ectopic pregnancy
55730	ZV22.11	[V]Supervision of normal pregnancy
5709	6213	Pregnancy care
100104	95B00	Health in Pregnancy grant claim form issued
72883	Lyu2100	[X]Other vomiting complicating pregnancy
59588	L411500	Genital varices in pregnancy
67863	Z22B.00	Observation of quantity of pregnancy
12890	Z227.00	Confirmation of pregnancy
47080	L162.00	Unspecified renal disease in pregnancy
3191	L16y500	Abdominal pain in pregnancy
27740	L1600	Other pregnancy complication NEC
67698	L150000	Post-term pregnancy unspecified
29623	62H4.00	Rh screen - 2nd preg. sample
21438	7E08411	Vacuum termination of pregnancy
51298	6215	Pregnant - on abdom. palpation
35912	ZV22200	[V]Pregnancy confirmed
99980	L168300	Fatigue during pregnancy - not delivered
29593	6223	Antenatal care: 3rd pregnancy
49407	L2B00	Low weight gain in pregnancy
52583	L168.00	Fatigue during pregnancy
69599	L21y.00	Other multiple pregnancy
39117	L126500	Eclampsia in pregnancy
863	L398200	Caesarean section - pregnancy at term
90776	62a11	Review of pregnancy
91254	Z235200	Rounded pregnant abdomen
109416	62H5.00	Rh screen - 3rd preg. sample
69815	62H3.00	Rh screen - 1st preg. sample
11989	8HHV.00	Referral for termination of pregnancy
37701	Z22A.00	Observation of pattern of pregnancy
33441	L511.00	Maternal care for viable fetus in abdominal pregnancy
106957	9Nif.00	Did not attend pertussis vaccination in pregnancy
24603	L10y.00	Other haemorrhage in early pregnancy

47608	L177.00	Infactions of bladder in prognancy
63751	L177.00 L16A300	Infections of bladder in pregnancy Glycosuria during pregnancy - not delivered
15418	L166300	Genitourinary tract infection in pregnancy - not delivered
59313	Z22BA00	Contin pregnancy after intrauterine death of sibling fetus
69722	ZV23z00	[V]Unspecified high-risk pregnancy
14842	6217	
42614	Z2200	Pregnant - unplanned - wanted
53490	L178.00	Pregnancy observations
		Infections of urethra in pregnancy
43344	ZV61800	[V]Illegitimate pregnancy
10173	Z23D200	Pregnant abdomen observation
52685	ZV23000	[V]Pregnancy with history of infertility
50512	L031z00	Tubal pregnancy NOS
49502	L228.00	Multiple pregnancy with malpresentation
50058	13SZ.00	Pregnancy benefit NOS
69011	L132000	Late pregnancy vomiting unspecified
10185	L1300	Excessive pregnancy vomiting
10184	67A3.00	Pregnancy smoking advice
97349	L121300	Renal hypertension in preg/childbirth/puerp - not delivered
101518	L132z00	Late pregnancy vomiting NOS
71730	L123300	Transient hypertension of pregnancy - not delivered
31162	L165.00	Asymptomatic bacteriuria in pregnancy
52048	Z22AB11	Accidental pregnancy
54938	L162000	Unspecified renal disease in pregnancy unspecified
62358	L167000	Liver disorder in pregnancy unspecified
110888	67lt.00	Advice on risk harm to mother from maternl medictn dur preg
38771	Lyu2200	[X]Other venous complications in pregnancy
15634	L166z00	Genitourinary tract infection in pregnancy NOS
43000	L16D.00	Excessive weight gain in pregnancy
14651	13H8.00	Illegitimate pregnancy
108236	621D.00	Concealed pregnancy
15033	ZV61900	[V]Other unwanted pregnancy
67164	L18z300	Medical condition NOS in pregnancy - baby not yet delivered
93303	ZV22400	[V]Supervision of other normal pregnancy
6184	ZV22.00	[V]Normal pregnancy
48281	Z22D200	Non-viable pregnancy
29746	8B75.00	Vitamin supplement - pregnancy
16611	ZV22300	[V]Pregnant state, incidental
1130	L210.00	Twin pregnancy
52221	L03y000	Cervical pregnancy
59650	Z235300	Transversely enlarged pregnant abdomen
69327	L10yz00	Other haemorrhage in early pregnancy NOS
51956	L212200	Quadruplet pregnancy with antenatal problem
10306	Z22C314	Weeks pregnant
45965	Z22C311	Pregnancy duration
26055	L263A00	Maternal care for fetal bradycardia during pregnancy

61301	L10y000	Other haemorrhage in early pregnancy unspecified
10261	L200	Risk factors in pregnancy
106268	8IEc.00	Pertussis vaccination in pregnancy declined
24944	L163300	Pregnancy care of habitual aborter
20118	62012	Static weight gain pregnancy
58142	L16A000	Glycosuria during pregnancy unspecified
61835	L161z00	Oedema or excessive weight gain in pregnancy NOS
23995	L1511	Post-term pregnancy
35646	L123z00	Transient hypertension of pregnancy NOS
93895	Z22B500	Quintuplet pregnancy
65256	L164.00	Peripheral neuritis in pregnancy
67975	L166.00	Genitourinary tract infections in pregnancy
36006	L16z.00	Pregnancy complication NOS
61466	Z22A211	HRP - High risk pregnancy
26866	L2y00	Other specified risk factors in pregnancy
35855	L15z.00	Prolonged pregnancy NOS
2937	L175.11	Rubella contact in pregnancy
50421	Z22A900	Unwanted pregnancy
37048	6282	A/N care:10yrs+since last preg
49193	67A7.11	Care of teeth advice -in preg.
11986	7E13300	Excision of ruptured ectopic tubal pregnancy
97034	67AE.00	Folic acid advice in first trimester of pregnancy
106737	9mK2.00	Pertussis vaccination in pregnancy invitation third letter
102362	389B.00	Assessment for termination of pregnancy
55618	ZV23600	[V]Supervisn/pregnancy wth history insufficnt antenatal care
37038	Z23D100	Girth of pregnant abdomen
29631	6222	Antenatal care: 2nd pregnancy
65555	L132.00	Late vomiting of pregnancy
107698	Z236300	Pregnant uterus displaced laterally
4536	62111	Pregnancy confirmed
111540	L415500	Other phlebitis in pregnancy
32493	Z22AD00	Presentation of pregnancy
44729	L031000	Fallopian tube pregnancy
43140	67A2.00	Diet in pregnancy advice
91888	L181300	Thyroid dysfunction in pregnancy - baby not yet delivered
12837	7F2B100	Ultrasound monitoring of early pregnancy
30351	67A6.00	Drugs in pregnancy advice
15567	6218	Pregnant -unplanned-not wanted
33724	L03z.00	Ectopic pregnancy NOS
100892	Lyu2400	[X]Other+unspcf genitourinary tract infection in pregnancy
127	6200	Patient pregnant
13672	8HHf.00	Refer to early pregnancy unit
32073	L000	Pregnancy with abortive outcome
64292	L16y300	Other pregnancy complication - not delivered
106425	62NL.00	Antenatal 31 week examination

100543	1222200	Coultant de desirb communication with contract and blanc
109543	L332200	Cord tangled with compression with antenatal problem
102300	Lyu2A00	[X]Abnormal finding on antenatal screening of mother
111263	L230200	Disproportion - major pelvic abnormality with antenatal prob
55111	6B22.00	Sure Start antenatal visit
13418	62W00	Antenatal blood tests
61533	L270200	Polyhydramnios with antenatal problem
14085	62GB.00	Antenatal ultrasounds scan at 4-8 weeks
42326	62KZ.00	Antenatal syphilis screen NOS
18536	62b00	Antenatal HIV screening
99475	68b5.00	Antenatal screening result pending
13168	62NZ.00	Antenatal examination NOS
63448	Z675.00	Antenatal class
100596	68b3.00	Antenatal screening shows significant disorder
67926	ZV28z00	[V]Unspecified antenatal screening
16613	584C.00	Antenatal ultrasound result received
23667	L413.00	Antenatal deep vein thrombosis
53683	L452300	Obstetric nonpurulent mastitis with antenatal complication
104764	L236200	Hydrocephalic disproportion with antenatal problem
56967	9NV1.00	Antenatal clinic
13417	62K00	Antenatal syphilis screen
108099	L39z300	Complications of labour and delivery NOS with antenatal prob
70096	L224200	Transverse lie with antenatal problem
104359	ZVu2600	[X]Other antenatal screening based on amniocentesis
294	6211	Antenatal care
104178	Lyu2600	[X]Other abnormal findings on antenatal screening of mother
27056	62GD.00	Antenatal ultrasound scan at 17-22 weeks
98481	68b4.00	Repeat antenatal screening required
14084	62GC.00	Antenatal ultrasound scan at 9-16 weeks
28732	62c00	Antenatal screening
6095	9N1N.00	Seen in antenatal clinic
99849	68bA.00	Antenatal screening, at risk couple identified
21957	62111	AFP test - antenatal
73765	L311200	Secondary uterine inertia with antenatal problem
102246	L265200	Small-for-dates with antenatal problem
73191	L226200	Brow presentation with antenatal problem
69254	L264200	Intrauterine death with antenatal problem
104766	L30z200	Obstructed labour NOS with antenatal problem
109071	38B6.00	Antenatal risk assessment
7845	Z212.00	Antenatal care
30378	L244312	Rectocele complicating antenatal care - baby not delivered
101938	L390300	Maternal distress with antenatal problem
90277	L350200	Rupture of uterus before labour with antenatal problem
97259	68b6.00	Antenatal screening declined
111183	8IHD.00	Health visitor antenatal visit declined
106588	62NJ.00	Antenatal 22 week examination

30801	62OZ.00	Misc. antenatal data NOS
49665	ZV28600	[V]Antenatal screening for chromosomal anomalies
21543	62200	Antenatal care: gravida No.
109313	9Nil.00	Did not attend antenatal appointment
103313	8CEM.00	Downs syndrome antenatal screening information leaflet given
37985	L2AX.00	Abnormal finding on antenatal screening of mother
91272	L440300	Puerperal cerebrovascular disorder with antenatal comp
99286	L28y200	Other amniotic/membrane problem with antenatal problem
99479	L267200	Other placental conditions with antenatal problem
10056	62N00	Antenatal examinations
44401	L305200	Shoulder dystocia with antenatal problem
35484	679E.00	Antenatal education
103512	L330200	Prolapse of cord with antenatal problem
99939	L33y200	Other umbilical cord complications with antenatal problem
101354	L244311	Cystocele complicating antenatal care - baby not delivered
39611	62GE.00	Antenatal ultrasound scan at 22-40 weeks
40597	ZV28y00	[V]Other specified antenatal screening
	L2A4.00	
70046 105047	L2A4.00 L2A2.00	Abnormal satelogical finding on antenatal screen of mother
	L33z200	Abnormal cytological finding on antenatal screen of mother
96678 15685	L2A00	Umbilical cord complications NOS with antenatal problem
2029	62G00	Abnormal findings on antenatal screening of mother  Antenatal ultrasound scan
	1514100	
103787	6224	Estimated date of delivery by antenatal ultrasound scan
31570 97391	L281200	Antenatal care: multip  Premature rupture of membranes with antenatal problem
65725	L413000	Antenatal deep vein thrombosis unspecified
13819	62F00	Antenatal amniocentesis
107186	L266200	Large-for-dates with antenatal problem
16750		·
71851	6221	Antenatal care: primigravida
105865	L229200	Prolapsed arm with antenatal problem
	67AJ.00	Provision of information about antenatal screening  Health visitor antenatal visit
109043 47928	9NFV.00 L280200	
6298	ZV28.00	Oligohydramnios with antenatal problem  [V]Antenatal screening
45032	62000	Misc. antenatal data
66496	L222200	Breech presentation with antenatal problem
444	8HT9.00	Referral to antenatal clinic
14083	62GZ.00	Antenatal ultrasound scan NOS
13419	62U00	Antenatal blood group screen
42120	L2A0.00	Abnormal haematologic find on antenatal screening of mother
13416	62M00	Antenatal sickle cell screen
69788	L260200	Fetal-maternal haemorrhage with antenatal problem
73734	ZVu2900	[X]Other antenatal screening
95107	L312200	Other uterine inertia with antenatal problem
103677		·
1030//	Eu32B00	[X]Antenatal depression

106022	62NK 00	Antenatal 25 week examination
106923 108811	62NK.00	
73407	L245300	Cervical incompetence with antenatal problem  Rhesus isoimmunisation with antenatal problem
	L261200	·
101980 44828	65QG.00 L263200	Antenatal screening shows non sig haemoglobinopathy carrier
		Fetal distress with antenatal problem
45091	62Y00	Routine antenatal care
71862	L323200 L307200	Delayed delivery second twin with antenatal problem
71794		Other failed trial of labour with antenatal problem
51432	62FZ.00	Antenatal amniocentesis NOS
97523	68b00	Antenatal screening status
28290	L2A3.00	Abnormal ultrasonic finding on antenatal screening of mother
36226	L2A1.00	Abnormal biochemical finding on antenatal screen of mother
100502	L413200	Antenatal deep vein thrombosis with antenatal complication
61203	L413z00	Antenatal deep vein thrombosis NOS
100578	L255200	Fetus with drug damage with antenatal problem
69072	L262200	Other blood-group isoimmunisation with antenatal problem
49617	622Z.00	Antenatal care: gravida NOS
26873	L413.11	DVT - deep venous thrombosis, antenatal
33009	6254	A/N care: H/O child abuse
29610	62NB.00	A/N 36 week examination
61162	L250200	Fetus with central nervous system malformation + a/n problem
52044	6252	A/N care: poor A/N attender
35513	6284	A/N care: primip. > 30 years
26695	625Z.00	A/N care: social risk NOS
55605	62NH.00	A/N 42 week examination
30797	6233	A/N care: grand multip
23013	6231	A/N care: uncertain dates
36516	62F4.00	A/N amniocentesis wanted
	628Z.00	A/N risk NOS
107506	62H2.00	A/N Rh screen offered
25331	6206.11	Vaginal 'show' - A/N
64537	62GA.00	A/N U/S scan for slow growth
13821	62F6.00	A/N amniocentesis - normal
19772	62F3.00	A/N amniocentesis - not wanted
70840	L240311	Bicornuate uterus complicating a/n care, baby not delivered
33287	62F1.00	A/N amniocentesis -not offered
13171	62N8.00	A/N 32 week examination
52049	62G3.00	A/N U/S scan not wanted
33008	6285	A/N care: multip. > 35 years
26696	6253	A/N care: late booker
24219	62A00	A/N care provider
13308	62500	A/N care: social risk
26692	6236	A/N care: poor obstetr history
37222	62G1.00	A/N U/S scan not offered
25391	62112	Alpha-feto protein test - A/N

35512	6281	A/N care: under 5ft tall
31251	62700	A/N care: gynae. risk
26551	62NE.00	A/N 39 week examination
68089	62HZ.00	A/N Rh antibody screen NOS
26691	6235	A/N care: H/O perinatal death
35826	62G6.00	A/N U/S scan normal += dates
30885	62G4.00	A/N U/S scan wanted
70289	62F9.00	A/N amnio. for ? neural tube
26693	62600	A/N care: medical risk
73099	L246311	Polyp of cervix complicating a/n care- baby not delivered
20401	L241311	Uterine fibroid complicating a/n care, baby not delivered
65450	62F2.00	A/N amniocentesis - offered
24236	62AZ.00	A/N care provider NOS
26553	62ND.00	A/N 38 week examination
102160	L283200	Prolonged artificial rupture of membranes with a/n problem
64141	62K2.00	A/N syphilis screen-blood sent
26550	62A2.00	A/N care from consultant
89025	L237200	Other fetal abnormality causing disproportion with a/n prob
102099	62MZ.00	A/N sickle cell screen NOS
47415	62G5.00	A/N U/S scan awaited
13415	62A4.00	A/N care midwifery led
54734	L28z200	Amniotic cavity and membrane problem NOS with a/n problem
14086	62G8.00	A/N U/S scan abnormal
37221	62G7.00	A/N U/S scan normal +? dates
66608	L241300	Tumour of uterine body complicating a/n care, baby not deliv
71797	L248300	Vulval abn complicating a/n care - baby not yet delivered
37029	62NG.00	A/N 41 week examination
29727	62NA.00	A/N 35 week examination
108885	62L1.00	A/N blood gp screen not done
39172	62L2.00	A/N blood group screen done
38165	6237	A/N care: H/O trophoblast.dis.
35511	6234	A/N care: H/O stillbirth
26875	6232	A/N care: recurrent aborter
9546	62300	A/N care: obstetric risk
73120	L247300	Vaginal abnormality complicating a/n care-baby not delivered
24214	62A1.00	A/N care from G.P.
13169	62N5.00	A/N 24 week examination
29627	62N7.00	A/N 30 week examination
3517	62N1.00	A/N booking examination
62147	62F8.00	A/N amnio. for ? chrom.abnorm.
37047	6242	A/N care: H/O infertility
27057	62G9.00	A/N U/S scan for ? abnormality
70616	62M2.00	A/N sickle cell screen done
29059	62A3.00	A/N - shared care
108867	62M1.00	A/N sickle screen not done

12260	6211 00	A /AL Discontibulate and a series
12260	62H00	A/N Rh antibody screen
41955	62F5.00	A/N amniocentesis - awaited
13166	62N3.00	A/N 16 week examination
35510	6241	A/N care: elderly primip.
26552	62NC.00	A/N 37 week examination
29280	62NF.00	A/N 40 week examination
3786	62800	A/N care: risk NOS
39728	62011	Fetal maturity - A/N
13822	62F7.00	A/N amniocentesis - abnormal
71912	62H1.00	A/N Rh screen not offered
26694	6251	A/N care: poor home conditions
70186	62LZ.00	A/N blood group screen NOS
26690	623Z.00	A/N care: obstetric risk NOS
98957	L240300	Cong abnorm uterus complicating a/n care, baby not delivered
13170	62N9.00	A/N 34 week examination
109166	62K1.00	A/N syphilis screen not done
13167	62N2.00	A/N 12 weeks examination
37220	62G2.00	A/N U/S scan offered
29364	62N4.00	A/N 20 week examination
26554	62N6.00	A/N 28 week examination
31250	6283	A/N care: primip. < 17 years
30209	ZV27000	[V]Single live birth
20573	Q48D000	[X]Fresh stillbirth
11966	ZV27.11	[V]Live birth
8906	ZV27.12	[V]Stillbirth
41253	7F11	Childbirth operations
10719	6331	Single live birth
28726	7F19100	Water birth delivery
58978	Q20y.00	Other specified birth trauma
37884	Z254D00	Face to pubes birth
72025	ZV3zz00	[V]Unspecified birth, NOS
8776	Q48D.00	[X] Stillbirth
5253	633a.00	Birth of child
31203	6332	Single stillbirth
13287	63311	Livebirth
17354	63313	Triplet birth
1825	63314	Twin birth
1214	6311	Home birth
2353	63E2.00	Normal birth
974	Q4z15	Stillbirth NEC
110211	633C.00	Intrapartum stillbirth
70813	ZV27500	[V]Other multiple birth, all live born
37878	Z254E11	Multiple birth delivery
42324	L34z.00	Vulval/perineal trauma during delivery NOS
55124	L39yz00	Other complications of labour and delivery NOS

27254	000000	
27351	Q036.00	Fetus or neonate affected by precipitate delivery
43918	L340400	Fourchette tear during delivery
33915	L213.00	Multiple delivery
5213	7F16400	Low forceps cephalic delivery
25223	L396.00	Vacuum extractor delivery
57957	7F1Ay00	Other specified other method of delivery
7670	L398z00	Caesarean delivery NOS
24243	L263400	Labour and delivery complic by meconium in amniotic fluid
15828	14Y4.00	Born by breech delivery
69780	Lyu5100	[X]Other and unspecified forceps delivery
62862	L342200	Third degree perineal tear during delivery with p/n problem
68752	Z253300	Normal rate of delivery
33773	7F19y00	Other specified normal delivery
30775	62B8.00	Midwife unit delivery booking
6452	L395.00	Forceps delivery
239	L2011	Spontaneous vaginal delivery
95858	L34y100	Other vulval/perineal trauma during delivery- delivered
29070	7F15000	Spontaneous breech delivery
19605	L341z00	Second degree perineal tear during delivery NOS
57945	7F17200	Vacuum delivery before full dilation of cervix
72022	L343000	Fourth degree perineal tear during delivery, unspecified
19607	L344000	Unspecified perineal laceration during delivery, unspecified
3365	L142.11	Premature delivery
27914	62V00	Delivery place planned
90885	Lyu4900	[X]Labour+delivery complicated by other cord entanglement
56310	Z2500	Delivery observations
12052	Z257.00	Delivery normal
11532	7F14.00	Breech extraction delivery
13164	62BZ.00	Delivery booking - place NOS
61212	L34y.00	Other vulval and perineal trauma during delivery
61077	7F16200	Mid forceps cephalic delivery with rotation
5866	7F100	Induction and delivery operations
65940	7F16500	Trial of forceps delivery
19608	L340z00	First degree perineal tear during delivery NOS
52875	L398000	Caesarean delivery unspecified
83535	Lyu5000	[X]Other single spontaneous delivery
47625	Z22C200	Estimated date of delivery from last normal period
17744	7F13100	Lower uterine segment caesarean delivery NEC
15073	7F13y00	Other specified other caesarean delivery
9800	L398300	Delivery by elective caesarean section
37699	L396z00	Vacuum extractor delivery NOS
72021	L343100	Fourth degree perineal tear during delivery - delivered
107136	Q031.11	Fetus affected by malpresentation during delivery
17684	L395.11	Keilland's forceps delivery
20425	L395.12	Neville - Barnes forceps delivery

4780	L2000	Normal delivery in a completely normal case
5868	Ly000	Spontaneous vertex delivery
106113	Lyu5800	[X]Multiple delivery, unspecified
62406	L323000	Delayed delivery second twin unspecified
61540	Z212100	Delivery place planned
47157	L34zz00	Vulval/perineal trauma during delivery NOS
58176	62C2.00	Full stay delivery booking
32283	Z212200	Home delivery planned
106808	L34z200	Vulval/perineal trauma during delivery NOS with p/n problem
740	7F12.00	Elective caesarean delivery
111579	Z263300	Condition of membranes at delivery
34102	Z262700	Incomplete placenta at delivery
21554	7F16900	Kielland forceps cephalic delivery with rotation
31254	L340100	First degree perineal tear during delivery - delivered
23394	7F16300	Mid forceps cephalic delivery NEC
54591	7F14z00	Breech extraction delivery NOS
3085	7F12z00	Elective caesarean delivery NOS
22491	Ly100	Spontaneous breech delivery
19609	L340600	Vaginal tear during delivery
39168	L342100	Third degree perineal tear during delivery - delivered
44235	L296.00	Vaginal delivery following previous caesarean section
40706	L344z00	Unspecified perineal laceration during delivery NOS
27993	62V0.00	Home delivery planned
58721	L20z.00	Normal delivery in completely normal case NOS
33477	L398100	Caesarean delivery - delivered
27963	L323.00	Delayed delivery of second twin, triplet etc
37509	7F1A300	Drainage of hydrocephalus of fetus to facilitate delivery
30806	L34yz00	Other vulval/perineal trauma during delivery NOS
30373	Z22C100	Estimated date of delivery from last period
42572	L323100	Delayed delivery second twin - delivered
15514	7F13000	Upper uterine segment caesarean delivery NEC
47546	7F12y00	Other specified elective caesarean delivery
86399	7F17y00	Other specified vacuum delivery
13352	L3400	Trauma to perineum and vulva during delivery
49446	L396100	Vacuum extractor delivery - delivered
15256	L344.00	Unspecified perineal laceration during delivery
37054	L341100	Second degree perineal tear during delivery - delivered
3108	7F1B000	Episiotomy to facilitate delivery
47863	Lyu5200	[X]Other single delivery by caesarean section
9160	Z257100	Spontaneous vertex delivery
58844	L396000	Vacuum extractor delivery unspecified
57488	L34z100	Vulval/perineal trauma during delivery NOS - delivered
27731	L345.12	Vulval and perineal haematoma during delivery
104872	L143100	Premature labour with premature delivery
42275	L395300	Mid-cavity forceps delivery

40876	L342z00	Third degree perineal tear during delivery NOS
93273	L39z100	Complications of labour and delivery NOS - delivered
42755	L387.00	Spinal/epidural anesth-induced headache dur labour/delivery
57789	L395400	Delivery by combination of forceps and vacuum extractor
19603	L340000	First degree perineal tear during delivery, unspecified
4786	L213200	Multiple delivery, all by caesarean section
20002	7F16000	High forceps cephalic delivery with rotation
66501	L39zz00	Complications of labour and delivery NOS
34333	Z262711	Incomplete delivery of placenta
19602	L341000	Second degree perineal tear during delivery, unspecified
39866	7F1A200	Cleidotomy of fetus to facilitate delivery
30805	L34y000	Other vulval/perineal trauma during delivery, unspecified
11530	Z254900	Vaginal delivery
67489	L34z000	Vulval/perineal trauma during delivery NOS unspec
4638	7F13.00	Other caesarean delivery
40744	Z254A00	Abnormal delivery
25157	L142100	Early onset of delivery - delivered
17704	L395.13	Simpson's forceps delivery
39573	Z265900	Umbilical cord not around baby's neck at delivery
5033	7F16100	High forceps cephalic delivery NEC
26549	62B1.00	Delivery: no place booked
50293	7F1z.00	Induction and delivery operations NOS
67862	L3900	Other complications of labour and delivery NEC
63277	L393.00	Acute renal failure following labour and delivery
32380	L3412	Vulval delivery trauma
23866	7F1B100	Symphysiotomy to facilitate delivery
618	L398400	Delivery by emergency caesarean section
66315	Lyu5500	[X]Other specified assisted single delivery
23791	L38A.00	Failed or difficult intubation during labour and delivery
99608	7F1Bz00	Other operation to facilitate delivery NOS
98749	7F1B400	Incision of cervix to facilitate delivery
30274	L395200	Low forceps delivery
35190	7F13z00	Other caesarean delivery NOS
40710	L395z00	Forceps delivery NOS
26712	L340300	Labial tear during delivery
62789	Q031.00	Fetus/neonate affected by malposition/disproportion-delivery
2624	Q033.00	Fetus or neonate affected by vacuum extraction delivery
19599	L340.00	First degree perineal tear during delivery
11650	L342.00	Third degree perineal tear during delivery
51736	7F17100	Low vacuum delivery
36703	L345.00	Vulval and perineal haematoma during delivery
2458	7F17.00	Vacuum delivery
22975	62B3.00	G.P. unit delivery booking
32988	62B5.00	Private home delivery booking
49485	L263600	Labour+delivery complicatd by biochem evidence/fetal stress

ı	5522	L3z00	Complications of labour and delivery NOS
	3319	Lyu4.00	[X]Complications of labour and delivery
	4789	Q030.11	Fetus affected by breech delivery
	4411	Z254300	Delivered by mid-cavity forceps delivery
	8230	Z254800	Deliveries by spontaneous breech delivery
	6137	L142z00	Early onset of delivery NOS
	9941	L142200	Early onset of delivery unspecified
	0738	7F19000	Manually assisted vaginal delivery
	4628	7F16600	Failed forceps delivery
			·
	3480	7F16y00	Other specified forceps cephalic delivery
	7245	L345000	Vulval and perineal haematoma during delivery, unspecified
	3959	633Z.00	Outcome of delivery NOS
	0615	L345z00	Vulval and perineal haematoma during delivery NOS
	0953	Z253211	Precipitate delivery
	3572	L3y00	Other specified complications of labour or delivery
	9668	7F12100	Elective lower uterine segment caesarean delivery
	9791	Z257.15	ND - Normal delivery
	9625	L263300	Labour and delivery complicated by fetal heart rate anomaly
	8861	L398500	Delivery by caesarean hysterectomy
	9733	L388.00	Cardiac comps of anaesthesia during labour and delivery
	5480	14Y3.00	Born by normal vaginal delivery
	8059	Lyu5400	[X]Other manipulation-assisted delivery
	9971	Z253100	Slow rate of delivery
	1226	ZV27y00	[V]Other specified outcome of delivery
105	5276	7F14000	Breech extraction delivery with version
103	3890	1514000	Estimated date of delivery from last period
102	1229	Z255A00	Observation of delivery push in labour
50	0675	L395100	Forceps delivery - delivered
44	4472	L39y.00	Other complications of labour and delivery
48	8742	Z254C00	Face delivery
33	3884	L213000	Multiple delivery, all spontaneous
14	4892	7F17z00	Vacuum delivery NOS
64	4464	7F15z00	Other breech delivery NOS
13	3163	62B00	Delivery booking place
105	5419	7F17000	High vacuum delivery
8	8879	1514.12	Estimated date of delivery
	720	L398.00	Caesarean delivery
29	9885	L300	Complications occurring during labour and delivery
14	4727	14Y1.00	Born by forceps delivery
1!	5675	14Y5.00	Born by ventouse delivery
	167	7F19.00	Normal delivery
32	2991	62C1.00	Short stay delivery booking
	688	7F17.11	Ventouse delivery
	463	L222.12	Breech delivery
(	6141	L396.11	Ventouse delivery

28903 Z254200 Delivered by low forceps delivery  100597 L39y100 Other complications of labour and delivery - delivered  12014 ZV27.00 [V]Outcome of delivery  61259 7F12000 Elective upper uterine segment caesarean delivery  105032 L143000 Premature labour without delivery  42885 Z254.00 Observation of pattern of delivery  107557 63D7.00 Complete placenta at delivery  37254 Q030.00 Fetus or neonate affected by breech delivery and extraction  3078 Q032.00 Fetus or neonate affected by forceps delivery  19600 L341.00 Second degree perineal tear during delivery  39576 L343.00 Fourth degree perineal tear during delivery  Vulval tear during delivery	
12014 ZV27.00 [V]Outcome of delivery 61259 7F12000 Elective upper uterine segment caesarean delivery 105032 L143000 Premature labour without delivery 42885 Z254.00 Observation of pattern of delivery 107557 63D7.00 Complete placenta at delivery 37254 Q030.00 Fetus or neonate affected by breech delivery and extraction 3078 Q032.00 Fetus or neonate affected by forceps delivery 19600 L341.00 Second degree perineal tear during delivery 39576 L343.00 Fourth degree perineal tear during delivery	
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19600 L341.00 Second degree perineal tear during delivery 39576 L343.00 Fourth degree perineal tear during delivery	
39576 L343.00 Fourth degree perineal tear during delivery	
31280 L340500 Vulval tear during delivery	
25545 Z212300 Delivery place booked	
70242 7F16700 Barton forceps cephalic delivery with rotation	
71057 L345100 Vulval and perineal haematoma during delivery - delivered	
1279 7F16.00 Forceps cephalic delivery	
22976 62B2.00 Home delivery booked	
41414 62B6.00 Delivery booking place changed	
104873 L143.00 Premature labour and delivery	
50847 L398600 Caesarean delivery following previous Caesarean delivery	
18287 7F22500 Normal delivery of placenta	
19604 L342000 Third degree perineal tear during delivery, unspecified	
2943 L222.11 Assisted breech delivery	
96089 Z253200 Rapid rate of delivery	
8967 7F19z00 Normal delivery NOS	
51065 62CZ.00 Delivery booking - stay NOS	
33378 7F15.00 Other breech delivery	
53937 L395000 Forceps delivery unspecified	
90497 L39z400 Complications of labour and delivery NOS with p/n problem	
23994 7F15100 Assisted breech delivery	
60256 Z254B00 Brow delivery	
60538 L213100 Multiple delivery, all by forceps and vacuum extractor	
15926 7F15y00 Other specified other breech delivery	
95780 Z262600 Complete placenta at delivery	
65702 L3800 Complications of anaesthesia during labour and delivery	
14686 7F16z00 Forceps cephalic delivery NOS	
67052 L344100 Unspecified perineal laceration during delivery - delivered	
15167 L142.00 Early onset of delivery	
11194 Z257.12 Spontaneous vaginal delivery	
25681 Z257.13 SVD - Spontaneous vaginal delivery	
9383 Z257.11 Normal delivery	
17492 Z257.14 FTND - Full term normal delivery	
31780 L222.13 Spontaneous breech delivery	
22498 Z253.12 Rate of delivery	
52151 Lyu4800 [X]Labour+delivery complicat/oth evidence of fetal distress	

39319 8HE7.00 Discharged from hospital within 6 hours of delivery 73048 7F14y00 Other specified breech extraction delivery 109452 7F1By00 Other specified other operation to facilitate delivery 69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
109452 7F1By00 Other specified other operation to facilitate delivery 69920 L39z.00 Complications of labour and delivery NOS 57652 L343z00 Fourth degree perineal tear during delivery NOS 53100 7F20z00 Instrumental removal products of concep delivered uterus NOS 41494 7F21z00 Manual removal products of conception delivered uterus NOS 27800 L124300 Mild or unspecified pre-eclampsia - not delivered 41588 L112200 Placental abruption - not delivered 3364 L126300 Eclampsia - not delivered
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3364 L126300 Eclampsia - not delivered
CE7E0 1244200 OIL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
65759   L244300   Other uterine/pelvic floor abnormal - baby not yet delivered
62880 L110200 Placenta praevia without haemorrhage - not delivered
69002 L11y200 Other antepartum haemorrhage - not delivered
67447 L125300 Severe pre-eclampsia - not delivered
64752 L111200 Placenta praevia with haemorrhage - not delivered
53160 L127300 Pre-eclampsia or eclampsia with hypertension - not delivered
31617 L130200 Mild hyperemesis-not delivered
57852 L100200 Threatened abortion - not delivered
64298 L141100 Other threatened labour - not delivered
54082 L169300 Herpes gestationis - not delivered
48830 L140100 Threatened premature labour - not delivered
54576 Z252.00 Mother not delivered
2549 L222.00 Breech presentation
13288 2722 O/E - breech presentation
46298 L222z00 Breech presentation NOS
55359 Q017100 Fetus/neonate affected by breech presentation before labour
56867 L300300 Obstructed labour due to breech presentation
66786 L397z00 Breech extraction NOS
48516 Z254400 Deliveries by breech extraction
4955 L397.00 Breech extraction
66106 L397000 Breech extraction unspecified
15610 7F06300 External version of breech
1534 7F14100 Forceps to aftercoming head (breech)
66307 L222000 Breech presentation unspecified
16097 Q214z00 Liveborn with unspecified fetal distress NOS
33258 L512.00 Maternal care for diminished fetal movements
67883 L514.00 Maternal care for poor fetal growth
50733 L263.12 Fetal bradycardia
23009 Q213.11 Fetal distress in labour - liveborn
48463 Q410.00 Fetal blood loss
23565 L2500 Known or suspected fetal abnormality
43428 ZV28400 [V]Screening for fetal growth retardation using ultrasonics
5479 Q212.00 Liveborn with prelabour fetal distress
106201 Qyu5400 [X]Other specified fetal and neonatal haemorrhages
31481 7F04300 Electrode applied to fetal scalp

107512 Q102.11 Fetal malnutrition without mention of 'light for dates' 96711 Q408200 Eschericha coli intra-amniotic fetal infection 98261 7F27y00 OS non routine obstetric scan for fetal observations 43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation 64959 7F01100 Fetoscopic examination of fetus and sampling of fetal bloo	od
98261 7F27y00 OS non routine obstetric scan for fetal observations 43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od
43893 Q470.00 Idiopathic hydrops fetalis 19590 6201.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od
19590 62O1.00 Fetal movements felt 48576 L22y.00 Other fetal malposition and malpresentation	od
48576 L22y.00 Other fetal malposition and malpresentation	od
	od
64959   /FULLUU   Fetoscopic examination of fetus and sampling of fetal ploo	od
36640 L265300 Maternal care for poor fetal growth	
59566 Q41yz00 Fetal or newborn haemorrhage NOS	
72837 2763 O/E - fetal heart 40-80	
62654 4H72.00 Amniotic fetal cell abnormal	
28977 L237.00 Other fetal abnormality causing disproportion	
46514 L263700 Maternal care for fetal hypoxia	
60301 7P0H500 Fetal echocardiography	
27801 2755 O/E - fetal movemnt.diminished	
67438 Q40y000 Intrauterine fetal sepsis, unspecified	
63905 Lyu3A00 [X]Maternal care/known or suspected fetal problem,unspe	
46784 Q023200 Fetus/neonate affected by materno-fetal transplacental transplacent	ans
50281 Q213z00 Liveborn with labour fetal distress NOS	
25153 2753 O/E - fetal movements felt	
103893 7F27400 Fetal ascites scan	
66619 Q023011 Fetus/neonate affected by feto-fetal transplacental transfe	us
101225 BBK3400 [M]Fetal rhabdomyoma	
104765 Q102.00 Fetal malnutrition, no mention light or small for gest age	
96669 L22z.00 Fetal malposition and malpresentation NOS	
55071 Z271C00 Fetal heart baseline pattern	
22815 27500 O/E - fetal movements	
69819 274Z.00 O/E - fetal station NOS	
56744 Q1011 Fetal malnutrition	
9164 58411 Fetal U-S scan	
66175 Q45z.00 Fetal or newborn blood disorder NOS	
102019 Q410600 Fetal haemorrhage into mother's circulation	
104829 L260000 Fetal-maternal haemorrhage unspecified	
97471 Q212z00 Liveborn with prelabour fetal distress NOS	
100323 4H700 Amniotic fetal cell study	
73393 4H71.00 Amniotic fetal cell study: NAD	
53296 42YG.00 Fetal cell test	
48798 Q4500 Fetal and newborn blood disorders	
21893 L510.00 Maternal care for hydrops fetalis	
60774 Z271100 Fetal heart acceleration	
62898 2768 O/E - fetal heart 180-200	
95881 2762 O/E - fetal heart < 40	
70856 2764 O/E - fetal heart 80-100	
67186 272Z.00 O/E - fetal presentation NOS	
38608 L250.11 Suspect fetal anencephaly	

8846	L250.13	Suspect fetal spina bifida
55152	Q408.00	Intra-amniotic fetal infection
104218	L300000	Obstructed labour due to fetal malposition unspecified
99494	Q455000	Congenital anaemia from fetal blood loss
91908	7F27200	Fetal biometry
95754	Q408z00	Intra-amniotic fetal infection NOS
62629	Q41yy00	Other specified fetal or newborn haemorrhage
95064	Q41y.00	Other fetal and newborn haemorrhage
19575	Q10z.00	Fetal growth retardation NOS
31033	7F03100	Percutaneous insertion of fetal pleuroamniotic shunt
53241	Q214100	Liveborn with fetal hypoxia, unspecified
26707	2766	O/E - fetal heart 120-160
38846	Z271D00	Normal fetal heart baseline pattern
44071	Q479.00	Non-immune hydrops fetalis
64335	L263000	Fetal distress unspecified
23590	L300.00	Obstructed labour due to fetal malposition
102073	Q410z00	Fetal blood loss NOS
53687	2752	O/E - fetal movements seen
42093	5846	U-S scan - fetal maturity
3620	Q214.00	Liveborn with fetal distress, unspecified
63024	2726	O/E -fetal presentation unsure
104845	Q410700	Fetal exsanguination
59679	276Z.00	O/E - fetal heart NOS
100297	L22zz00	Fetal malposition and malpresentation NOS
34777	Q1000	Slow fetal growth and fetal malnutrition
98499	L25z300	Maternal care for suspect fetal abnormal and damage, unspec
96222	L25z400	Maternal care for fetal abnormality and damage, unspecified
41908	Q3z00	Fetal or newborn respiratory problems NOS
28184	Q436z00	Unspecified fetal or neonatal jaundice NOS
11589	7F25100	Fetal heart monitoring in labour
35680	Q423.00	Hydrops fetalis due to isoimmunisation
45439	Lyu3900	[X]Maternal care/oth spcf known or suspected fetal problems
12013	L268000	Reduced fetal movements
19581	Q436.00	Fetal and neonatal jaundice, unspecified
32184	L267500	Other fetal problems
68996	2765	O/E - fetal heart 100-120
62903	2767	O/E - fetal heart 160-180
70845	Z271E00	Sinusoidal pattern of fetal heart
52308	Q211.00	Fetal death due to labour anoxia
101119	2769	O/E - fetal heart > 200
27868	2761	O/E - fetal heart not heard
39218	5858200	Ultrasonic doppler for fetal heart sounds
2437	2751	O/E - no fetal movements
13276	L263.00	Fetal distress - affecting management
49294	L2600	Other fetal and placental problems

41919	5849	U-S scan - fetal presentation
72159	5845	U-S scan - fetal cephalometry
91933	Q410000	Fetal blood loss, unspecified
85992	7F27.00	Non routine obstetric scan for fetal observations
95538	Z271B00	Poor baseline variability in fetal heart rate
36195	L268.00	Other fetal problems
8147	L264.11	Fetal death in utero
94785	9Nk3.00	Seen in fetal medicine clinic
91477	7F03300	Percutaneous insertion of fetal pleural drain
19720	7F25.11	Fetal monitoring
983	Q11	Fetal and neonatal conditions
26710	27200	O/E - fetal presentation
45963	5847	U-S scan - fetal abnormality
46413	L250.12	Suspect fetal hydrocephaly
48801	Q4100	Fetal and neonatal haemorrhage
95875	7F27z00	Non routine obstetric scan for fetal observations NOS
39868	Q420.11	Erythroblastosis fetalis
	Q420.11 Q3100	·
50201	Z271900	Other fetal and newborn respiratory conditions
55607		Fetal heart rate variability  Fetal heart deceleration
47149	Z271F00	
102894	L260z00	Fetal-maternal haemorrhage NOS
91773	Z271A00	Good baseline variability in fetal heart rate
46502	Q2112	Labour fetal anoxia
46431	7F04100	Percutaneous sampling of fetal blood
9501	7F25000	Fetal heart monitoring NEC
19582	Q493.00	Persistent fetal circulation
7681	27600	O/E - fetal heart heard
62316	L5100	Maternal care for other known or suspected fetal problems
	L263.13	Fetal tachycardia
54004	7F03000	Percutaneous insertion of fetal vesicoamniotic shunt
34132	Q212.11	Fetal distress before labour - liveborn
42322	Q213.00	Liveborn with labour fetal distress
20320	Q210.00	Fetal death due to prelabour anoxia
107794	4H7Z.00	Amniotic fetal cell study NOS
106136	Q410200	Fetal placental blood loss
66335	L260.00	Fetal-maternal haemorrhage
53863	L263z00	Fetal distress NOS
41102	L263500	Lab+del comp fetal ht rate anom wth meconium in amnio fluid
35214	Z271912	FHRV - Fetal heart rate variability
26401	Q214.11	Fetal distress, unspecified when, liveborn
54687	L51X.00	Maternal care/known or suspected fetal problem,unspecifd
37752	6203.00	Fetal maturity: dates = size
55493	6202.00	Fetal movements seen
52857	275Z.00	O/E - fetal movements NOS
110134	Z271G00	Early fetal heart deceleration

13299	Q42X.00	Hydrops fetalis due to other+unspcfd haemolytic disease
100342	PK81.00	Fetal hydantoin syndrome
50913	P7z11	Fetal circulation
51372	Q311z11	Pneumonitis due to fetal aspiration
97985	Z271H00	Late fetal heart deceleration
95649	L263.11	Fetal acidosis
48784	6204.00	Fetal maturity: dates not=size
66428	Q026.11	
		Fetus affected by cord problems
1017	Q034.00	Fetus or neonate affected by caesarean section
97885	7F01000	Fetoscopic examination of fetus and biopsy of fetus
47151	L220.00	Fetus - unstable lie
97186	7F03z00	Therapeutic percutaneous operation on fetus NOS
26685	Q035600	Fetus/neonate affected by other maternal opiates in lab/del
62776	Q037.11	Fetus or neonate affected by hypertonic labour
5538	Q024.00	Fetus or neonate affected by prolapsed cord
91659	Q022.00	Fetus/neonate affected by placental abnormality NEC
105625	Q027.00	Fetus or neonate affected by chorioamnionitis
72118	L257.00	Fetus with damage due to intra-uterine contraceptive device
52007	L255.00	Fetus with drug damage
73892	Q00z.00	Fetus or neonate affected by maternal medical problem NOS
67326	Q04X.00	Fetus+newborn affected/other maternal noxious influences
69257	L25y000	Fetus with other damage NEC, unspecified
71987	Q007A00	Fetus/neonate affect-plac./breast transf hypoglycaemic agent
63290	Q101.00	Fetus small-for-dates with signs of malnutrition
52669	Q031200	Fetus/neonate affect persistent occip-posterior - labour/del
61063	L25zz00	Fetus with damage NOS
99136	Q021200	Fetus/neonate affected by placental damage-amniocentesis
45440	7F00.00	Therapeutic fetoscopic operations on fetus
30979	7N61200	[SO]Fetus
69435	7F02z00	Selective destruction of fetus NOS
61452	7F0z.00	Fetus and gravid uterus operations NOS
46724	Q022200	Fetus or neonate affected by placental insufficiency
105097	L250300	Maternal care for suspected CNS malformation in fetus
52633	Q021111	Fetus affected by placental abruption
36894	Q100.11	Fetus small-for-dates (SFD), without mention of malnutrition
94808	Q017600	Fetus or neonate affected by face presentation before labour
103741	7F2A211	Doppler ultrasound scan of middle cerebral artery of fetus
51177	L500	Maternal care for fetus
106508	7F03600	Percutaneous laser ablation of lesion of fetus
44173	5391	Obstetric X-ray - fetus
38864	L160.00	Papyraceous fetus
48156	Q025000	Fetus or neonate affected by cord round neck
59236	L25z.00	Fetus with damage NOS
53074	L251z00	Fetus with chromosomal abnormality NOS
66699	PK83.00	Fetus and newborn affected by maternal use of alcohol

66574	0 5000	[Mail:: : 1/4: M
66571	Qyu5200	[X]Oth intracranial(nontraumatic)haemorrhages/fetus+newborn
31923	Q021300	Fetus/neonate affected by placental damage-caesarean section
72366	7F02y00	Other specified selective destruction of fetus
62819	7F04z00	Diagnostic percutaneous examination of fetus NOS
72973	Qyu5500	[X]Other haemolytic diseases of fetus and newborn
45653	Q025.00	Fetus or neonate affected by other cord compression
23483	Q023.00	Fetus or neonate affected by placental transfusion syndrome
97240	Q027100	Fetus or neonate affected by amnionitis
72834	Q41z.00	Haemorrhage of fetus and newborn NOS
52950	Q013.00	Fetus or neonate affected by maternal polyhydramnios
41937	5848	U-S scan - multiple fetus
63077	Q00y.00	Fetus or neonate affected by other maternal condition
34695	L2211	Malpresentation of fetus
15495	Q42z.00	Haemolytic disease of fetus/newborn due isoimmunisation NOS
22032	Q100.00	Fetus small-for-dates, without mention of malnutrition
43005	Q200012	Intracranial haemorrhage in fetus or newborn
36559	Q200011	Intracerebral haemorrhage in fetus or newborn
71279	L250000	Fetus with central nervous system malformation unspecified
40870	Q020.00	Fetus or neonate affected by placenta previa
85238	Qyu5F00	[X]Intracranial nontraumatic haemorrhage fetus newborn unsp
106959	Qyu0200	[X]Fetus and newborn affected by other maternal conditions
46283	7F000	Fetus and gravid uterus operations
682	Q4200	Haemolytic disease of fetus/newborn due to isoimmunisation
27334	Q026z00	Fetus or neonate affected by cord problems NOS
50530	7F0y.00	Other specified operations on fetus or gravid uterus
28487	Q13	Fetus and neonate conditions
71910	Q037200	Fetus or neonate affected by hypertonic uterine dysfunction
70737	L25z000	Fetus with damage NOS, unspecified
56697	Q041.00	Fetus and newborn afect by mat use of nutritional chem subs
54726	L251400	Maternal care for chromosomal abnormality in fetus
101599	L253300	Maternal care for damage to fetus from maternal rubella
101893	L251300	Maternal care for suspected chromosomal abnormality in fetus
66526	Q035200	Fetus/neonate affected by mat general anaesthesia - lab/del
99890	Q021400	Fetus/neonate affect by placental damage-surgical induction
44479	Q200511	Intracerebral haematoma in fetus or newborn
47219	Q035300	Fetus/neonate affected by mat epidural anaesth - labour/del
52526	Q200600	Extradural haemorrhage in fetus or newborn
105735	Q007B00	Fetus/neonate affected-plac./breast transfer endocrine agent
21382	27B00	O/E - viable fetus
100241	L25y.00	Fetus with other damage NEC
26840	Q017500	Fetus or neonate affected by unstable lie before labour
95128	9d06.00	Fetus
26631	Q000.00	Fetus or neonate affected by maternal hypertensive disease
73317	L252.00	Fetus with hereditary disease
48583	Q031600	Fetus/neonate affected by disproportion during labour/delive

71627	0017.11	Catura affordad by madiguacoutation
71637	Q017.11	Fetus affected by malpresentation
71495	L250z00	Fetus with central nervous system malformation NOS
60841	Q013.11	Fetus affected by hydramnios
55149	Qyu0100	[X]Fetus+newborn affectd/oth medical procedure on mother,NEC
100666	L252z00	Fetus with hereditary disease NOS
66748	Qyu0C00	[X]Fetus+newborn affected/other maternal noxious influences
43958	Q023000	Fetus/neonate affected by twin-to-twin transplacental transf
23617	L2200	Malposition and malpresentation of fetus
68016	L253.11	Fetus with suspected rubella damage via mother
65716	Q011.00	Fetus/neonate affected maternal premature rupture membrane
20721	7F011	Fetus operations
59580	7F012	Fetus & gravid uterus ops
72558	Q016.00	Fetus or neonate affected by maternal death
38043	Q200500	Cerebral haematoma in fetus or newborn
52299	Q007200	Fetus/neonate affected by placental/breast transfer narcotic
68169	Q021.00	Fetus/neonate affect other placental separation/haemorrhage
37055	Q035500	Fetus/neonate affected by maternal pethidine in labour/deliv
16963	7F00000	Fetoscopic blood transfusion of fetus
61596	Q017300	Fetus or neonate affected by oblique lie before labour
55761	Q021500	Fetus or neonate affected by premature placental separation
44644	L250.00	Fetus with central nervous system malformation
58187	Lyu4500	[X]Obstructed labour due to other abnormalities of fetus
108080	Qyu0.00	[X]Fetus/newborn affected by maternal factors+complications
91434	L251.12	Suspect mongol fetus
42661	Q021011	Fetus affected by APH - antepartum haemorrhage
63309	Q037312	Fetus/neonate affected by uterine dysfunction in labour/del
95638	Q101.11	Fetus small-for-dates (SFD) with signs of malnutrition
69015	L251.11	Suspect cystic fibrosis fetus
64430	Q007C00	Fetus/neonate affected-plac./breast transfer addictive drug
59171	Q017400	Fetus or neonate affected by transverse lie before labour
57828	7F03200	Percutaneous blood transfusion of fetus
24701	2754	O/E - fetus very active
72833	Q02z.00	Fetus/neonate affected by abnormalities chorion/amnion NOS
104029	Qyu0B00	[X]Fetus and newborn affected by other maternal medication
70901	Q023100	Fetus/neonate affected by feto-maternal transplacental trans
7103	Q000.11	Fetus affected by maternal toxaemia
109421	Q03y400	Fetus or neonate affected by long labour
20544	Q031611	Fetus/neonate affected-cephalopelvic disproportion lab./del.
99563	27A11	O/E - VE - descent of fetus
50555	Q012.00	Fetus or neonate affected by maternal oligohydramnios
101603	Q010.00	Fetus or neonate affected by maternal incompetent cervix
72348	Q007800	Fetus/neonate affected-plac./breast transfer chemotherapy
30692	L251.00	Fetus with chromosomal abnormality
45856	Q002.00	Fetus or neonate affected by maternal infections
49959	Q005.00	Fetus or neonate affected by maternal injury

93329	Q007400	Fatur / nagnata affacted placental / broast transfer anti-infact
72729	L253.00	Fetus/neonate affected-placental/breast transfer anti-infect  Fetus with viral damage via mother
63648	Q021000	Fetus/neonate affected by antepartum haemorrhage unspecified
96742	Q021000 Q007300	Fetus/neonate affected by affectal breast transfer hallucinogen
68851	Q0000	Fetus or neonate affected by maternal medical problems
		Maternal care for CNS malformation in fetus
54690	L250400	
108565	Qyu0700	[X]Fetus+newborn affectd/oth+unspcfd conditns/umbilical cord [X]Digestive system disorders of fetus and newborn
108626	Qyu7.00	
38660	Q300	Fetus and newborn respiratory conditions
42226	Q017200	Fetus or neonate affected by external version before labour
71951	Q037300	Fetus or neonate affected by uterine inertia or dysfunction
71552	L235.00	Large fetus causing disproportion
67572	Q031000	Fetus/neonate affected by mat bony pelvis abn in labour/del
65059	Qyu5.00	[X]Haemorrhagic+haematolog disorders of fetus and newborn
68687	L266300	Suspected macroscopic fetus
52726	Q031500	Fetus/neonate affected by face presentation during labour/de
27447	Q031z00	Fetus/neonate affected by malposition/disproportion NOS
54311	Q0200	Fetus/neonate affected by complic of placenta/cord/membrane
100074	7F01.00	Diagnostic endoscopic examination of fetus using fetoscope
101984	7F03.00	Therapeutic percutaneous operations on fetus
70393	7F04.00	Diagnostic percutaneous examination of fetus
102078	Q027z00	Fetus or neonate affected by chorioamnionitis
58773	Q026.00	Fetus or neonate affected by other specified cord problems
102535	7F00.12	Therapeutic foetoscopic operations on fetus
35777	Q417.00	Intracranial nontraumatic haemorrhage of fetus and newborn
31496	Q007900	Fetus/neonate affected-plac./breast transfer uterine depress
107153	Q007x00	Fetus/neonate affected - placental/breast transfer toxic NEC
40376	PH11.00	Harlequin fetus
56666	L256.00	Fetus with radiation damage
73323	L254.00	Fetus with damage due to other maternal disease
73373	Q001.00	Fetus or neonate affected by maternal renal/urinary disease
96331	L258.00	Fetus with cardiovascular abnormality
105261	Q007500	Fetus/neonate affected-placental/breast transfer immune sera
57651	7F02.00	Selective destruction of fetus
97611	7F03400	Percutaneous insertion of bladder drain to fetus
108731	7F03y00	Other specified therapeutic percutaneous operation on fetus
70074	Q3y00	Other specified respiratory problems in fetus or neonate
69814	Q022000	Fetus or neonate affected by placental dysfunction
69533	L257.12	Fetus with damage due to intra-uterine contraceptive device
95909	Q026400	Fetus or neonate affected by vasa praevia of cord
55410	L251000	Fetus with chromosomal abnormality unspecified
37180	27211	O/E - lie of fetus
69076	Q031300	Fetus/neonate affected by shoulder presentation - labour/del
61640	L252000	Fetus with hereditary disease unspecified
96614	Q035100	Fetus/neonate affected by mat analgesic agent in labour/del

4213 QO21100 Fetus or neonate affected by abruptio placentae 104989 QO18.00 Fetus or neonate affected by maternal postnatal depression 70739 125y200 Fetus with other damage NEC NOS 42384 QO31400 Fetus or neonate affected by transverse lie in labour/deliv 72757 QO07100 Fetus/neonate affected by placental/breast transfer alcohol 51296 QO3y200 Fetus or neonate affected by placental/breast transfer alcohol 51296 QO3y200 Fetus or neonate affected by abnormal uterine contractions 79700 QO37.00 Fetus or neonate affected by abnormal uterine contractions 97745 QO07600 Fetus/neonate affected by abnormal uterine contractions 97745 QO07600 Fetus/neonate affected by abnormal uterine contractions 97745 QO0700 Fetus/neonate affected by obstructed labour NEC 99473 QO07.00 Fetus/neonate affected by obstructed labour NEC 99473 QO07.00 Fetus/neonate affected by poison transferred placenta/breast 50940 S391.11 Fetus - abdominal X-ray, obst. 97233 QO2700 Fetus or neonate affected by knot in cord 68577 QO37100 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus or neonate affected by hypertonic labour 70165 Q016.11 Fetus affected by maternal death 107075 L043:11 Incomplete inevitable miscarriage with unspecified comp 117625 L044.11 Incomplete inevitable miscarriage with unspecified comp 117625 L044:11 Incomplete inevitable miscarriage without complication 107604 L045:211 Complete inevitable miscarriage complicated by embolism 108742 L045:11 Inevitable miscarriage complicated by embolism 108742 L045:11 Inevitable miscarriage without complication 109288 L044y11 Incomplete inevitable miscarriage with other specified comp 109289 L043:11 Unspecified inevitable miscarriage with OS complication 11734 L043:11 Unspecified inevitable miscarriage with OS complication 11734 L043:11 Unspecified inevitable miscarriage with other specified comp 11739 L043:11 Unspecified inevitable miscarriage with other specified comp 11739 L043:11 Unspecified inevitable miscarriage with other specified comp 11739 L043:11 Unspecified inevitable misc		_	
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99736 L042000 Complete spontaneous abortion + genital tract/pelvic infect	106524	L071100	Unspecified incomplete abortion + delayed/excess haemorrhage
	25883	L071y00	Unspecified incomplete abortion + no mention of complication
99590 L052w00 Complete legal abortion with other specified complication	99736	L042000	Complete spontaneous abortion + genital tract/pelvic infect
	99590	L052w00	Complete legal abortion with other specified complication

69190	L052000	Complete legal abortion + genital tract or pelvic infection
3874	L031200	Tubal abortion
56325	L042y00	Complete spontaneous abortion + no mention of complication
99955	L040400	Unspecified spontaneous abortion with metabolic disorder
60771	L0511	Elective abortion
31431	L0513	Therapeutic abortion
95625	L044200	Incomplete inevitable abortion complicated by embolism
40258	L040011	Spontaneous abortion with sepsis
72593	L044x00	Incomplete inevitable abortion with unspecified complication
49467	L0612	Self-induced abortion
71289	L0611	Criminal abortion
25605	L100z00	Threatened abortion NOS
58137	L07z.00	Unspecified abortion NOS
1886	L072.00	Unspecified abortion complete
70643	L070.00	Unspecified abortion
56828	L041w00	Incomp spontaneous abortion + other specified complication
28605	L051z00	Incomplete legal abortion NOS
38415	L050z00	Unspecified legal abortion NOS
97991	L062w00	Complete illegal abortion with other specified complication
2034	L10zz11	Inevitable abortion
56224	L070z00	Unspecified abortion NOS
94404	L061z00	Incomplete illegal abortion NOS
104747	L040x00	Unspecified spontaneous abortion with complication NOS
8173	L043.00	Inevitable abortion unspecified
105470	L040500	Unspecified spontaneous abortion with shock
102090	L08y.00	Failed attempted abortion with no mention of complication
68311	L044y00	Incomplete inevitable abortion with OS complication
9407	6776.11	Abortion counselling
33501	L045.00	Inevitable abortion complete
1737	L0200	Missed abortion
41606	L0600	Illegally induced abortion
39470	L0800	Failed attempted abortion
7413	L041.00	Spontaneous abortion incomplete
1439	L0700	Unspecified abortion
70384	L050y00	Unspecified legal abortion with no mention of complication
1879	L071.00	Unspecified abortion incomplete
68938	L040y00	Unspec spontaneous abortion without mention of complication
49809	L0A00	Failed attempted abortion
41783	L041100	Incomp spontaneous abortion + delayed/excessive haemorrhage
73445	L050000	Unspecified legal abortion + genital tract/pelvic infection
50612	L052y00	Complete legal abortion with no mention of complication
94359	L042w00	Complete spontaneous abortion + other specified complication
68669	L040w00	Unspec spontaneous abortion + other specified complication
58085	L052z00	Complete legal abortion NOS
50903	L0A2.00	Failed medical abortion comp by delayed/excessive haem'ge

33964 L0A4.00         Failed medical abortion, without complication           56822 L050.00         Legal abortion unspecified           51614 L044200         Incomplete inevitable abortion without complication           41118 L082.00         Failed attempted abortion in with complication NOS           39754 L051.11         Medal abortion - incomplete           6730 L051.12         Surgical abortion - incomplete           35184 L071200         Unspecified incomplete abortion NOS           105603 L052500         Complete legal abortion with shock           107159 L08x.00         Failed attempted abortion with complication NOS           7817 L042.00         Spontaneous abortion complete           106491 L050100         Unspecified legal abortion with OS complication           47931 L050000         Unspecified legal abortion with OS complication           47298 L052.00         Legal abortion complete           71529 L060.00         Illegal abortion complete           96418 L062.00         Illegal abortion complete           96561 L062.00         Illegal abortion complete           94138 L062.00         Unspecified spontaneous abortion NOS           47435 L097200         Readmission for retained produc of concept, illegal abortion           72307 L04000         Unspecified spontaneous abortion with other specified complication           893			
S1614 L044200   Incomplete inevitable abortion without complication	33964	L0A4.00	Failed medical abortion, without complication
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39754 L051.11   Medal abortion - incomplete	41118	L08z.00	Failed attempted abortion NOS
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21805 L097300 Readmission for retained produc of concept, unspec abortion 7114 L044.00 Inevitable abortion incomplete 59572 L0A3.00 Failed medical abortion, complicated by embolism 22379 L04z.00 Spontaneous abortion NOS 59116 L045x00 Complete inevitable abortion with unspecified complication 12337 L051.00 Legal abortion incomplete 41379 L052.11 Medical abortion - complete 49849 L052.12 Surgical abortion - complete 906 L100.00 Threatened abortion 96598 Z22CE00 Number of induced abortions 29940 L042z00 Complete spontaneous abortion NOS 94270 L043x00 Unspecified inevitable abortion with unspec complication 68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage 68110 L043z00 Unspecified inevitable abortion without complication 101218 L051700 Incomplete medical abortion with OS complication	110905	L070w00	Unspecified abortion with other specified complication
7114 L044.00 Inevitable abortion incomplete  59572 L0A3.00 Failed medical abortion, complicated by embolism  22379 L04z.00 Spontaneous abortion NOS  59116 L045x00 Complete inevitable abortion with unspecified complication  12337 L051.00 Legal abortion incomplete  41379 L052.11 Medical abortion - complete  49849 L052.12 Surgical abortion - complete  906 L100.00 Threatened abortion  96598 Z22CE00 Number of induced abortions  29940 L04z200 Complete spontaneous abortion NOS  94270 L043x00 Unspecified inevitable abortion with unspec complication  68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage  68110 L043z00 Unspecified inevitable abortion without complication  101218 L051700 Incomplete medical abortion  63777 L045y00 Complete inevitable abortion with OS complication	29439	L041z00	Incomplete spontaneous abortion NOS
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906 L100.00 Threatened abortion 96598 Z22CE00 Number of induced abortions 29940 L042z00 Complete spontaneous abortion NOS 94270 L043x00 Unspecified inevitable abortion with unspec complication 68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage 68110 L043z00 Unspecified inevitable abortion without complication 101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	41379	L052.11	Medical abortion - complete
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94270 L043x00 Unspecified inevitable abortion with unspec complication 68511 L040100 Unspec spontaneous abortion + delayed/excessive haemorrhage 68110 L043z00 Unspecified inevitable abortion without complication 101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	96598	Z22CE00	Number of induced abortions
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101218 L051700 Incomplete medical abortion 63777 L045y00 Complete inevitable abortion with OS complication	68511	L040100	Unspec spontaneous abortion + delayed/excessive haemorrhage
63777 L045y00 Complete inevitable abortion with OS complication	68110	L043z00	Unspecified inevitable abortion without complication
	101218	L051700	Incomplete medical abortion
62659 Lyu0200 [X]Other abortion	63777	L045y00	Complete inevitable abortion with OS complication
	62659	Lyu0200	[X]Other abortion

64692	L141z00	Other threatened labour NOS
92738	ZNA2300	Does perform labouring activities
36756	L386.00	Toxic reaction to local anaesthesia during labour and deliv
49858	Z23G.00	Uterine observation in labour
64206	L313z00	Precipitate labour NOS
109569	L313000	Precipitate labour unspecified
25428	Z246211	Start of labour
23674	L291.11	Failed medical induction of labour
87342	Z244100	Observation of duration of labour
50876	H472.00	Asp pneumonitis due to anaesthesia during labour and deliv
93735	Z246A00	Total duration of labour
71189	Z244400	Late onset of labour
22115	7F10.00	Surgical induction of labour
59789	L14z.00	Early or threatened labour NOS
54167	6322	2nd stage of labour length
44337	L307.00	Failed trial of labour unspecified
32555	L351000	Rupture of uterus during and after labour unspecified
3004	L1411	Premature labour
30782	632Z.00	
		Length of labour NOS
65867	7M35011	Entonox analgesia in labour
23549 66242	L31z.00 Z243400	Abnormality of forces of labour NOS
		Rapid first stage of labour
59445 94809	Z243800 Z256200	First stage of labour problem
99290	Z255800	Prolonged third stage of labour
40448	7F11100	Second stage of labour problem
56873	ZNA2200	Induction of labour using prostaglandins Unable to perform labouring activities
88775	7F11300	Medical induction of labour
	Z255700	
40724		Failure to progress in second stage of labour Other labourer NOS
45057	0Z3Z.00	
95570	L307z00	Failed trial of labour NOS
64732	Q213000	Liveborn with labour abnormal heart beat  Failed mechanical induction of labour
57002 13215	L290.11 63200	
		Length of labour  Relation of onset of labour to due date
48484	Z244500 6323	
49953		3rd stage of labour length
33421	7F11000	Oxytocic induction of labour
35628	L321.00	Prolonged labour unspecified
100252	Z255J00	Pushing involuntarily in labour
98422	Q213100	Liveborn with labour hypoxia
63022	L281500	Prem rupture of membranes onset of labour after 24 hours  Other problems affecting labour NOS
103000	L29yz00	Other problems affecting labour NOS
98003	Z23B400	Contraction of uterus during labour
73319	L302.00	Obstructed labour caused by pelvic soft tissues
55225	L32z.00	Prolonged labour NOS

104405   Z256100	44000		
71720 L350200 Rupture of uterus before labour NOS 60124 Z243411 Rapid progress in first stage of labour 71171 L350000 Rupture of uterus before labour unspecified 106135 Z244200 Long duration of labour 94874 Z244300 Short duration of labour 103154 L321200 Prolonged labour NOS 65243 L141000 Other threatened labour unspecified 60255 L351200 Rupture of uterus during and after labour NOS 99968 L321000 Unspecified prolonged labour, unspecified 3272 7F11200 Other induction of labour NOS 44306 L126600 Eclampsia in labour 48708 Z244411 Postmature labour 95354 Z255300 Progess of second stage of labour 62622 L302000 Obstructed labour NOS, unspecified 108419 L38X.00 Complication of anaesthesia during labour and deliv unsp 40702 Z243600 Slow progress in first stage of labour 37267 L301400 Obstructed labour due to generally contracted pelvis 61611 7F1A400 Trial of labour NEC 22261 Z241100 Onset of labour induced 65900 Z243300 Progress of labour - first stage 32997 6321 Lst stage of labour a first stage 32997 6321 Lst stage of labour a first stage 32997 6321 Lst stage of labour a first stage 32997 6312 Lst stage of labour a first stage 32997 6321 St stage of labour a first stage 32997 6321 St stage of labour and deliv unsp 41010 Intravenous induction of labour 42101 L140200 Threatened premature labour NOS 32877 L350.00 Ruptured uterus before labour 107198 L292000 Unspecified maternal pyrexia during labour, unspecified 97907 L29.00 Other problems affecting labour 24447 7F25.13 Monitoring during labour 24447 7F25.13 Monitoring during labour 32656 638E.00 Obstructed labour caused by pelvic soft tissues unspecified 10466 638E.00 Obstructed labour caused by polycis soft tissues unspecified 104764 L30200 Obstructed labour caused by polycis soft tissues unspecified 25486 L330.00 Obstructed labour caused by polycis soft tissues NOS 48602 L33000 Obstructed labour caused by polycis soft tissues NOS 48602 L32.00 Observation of blood loss in labour			
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819 L3000 Obstructed labour  24447 7F25.13 Monitoring during labour  73331 Z246900 Duration of second stage of labour  21626 63E1.00 Spontaneous onset of labour  100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified  23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	107198	L292000	Unspecified maternal pyrexia during labour, unspecified
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21626 63E1.00 Spontaneous onset of labour  100563 L302000 Obstructed labour caused by pelvic soft tissues unspecified  23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	24447	7F25.13	Monitoring during labour
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23548 L301.00 Obstructed labour caused by bony pelvis  104746 L302z00 Obstructed labour caused by pelvic soft tissues NOS  48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	21626	63E1.00	Spontaneous onset of labour
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48602 L3200 Long labour  36655 Z245.00 Observation of blood loss in labour  99170 Z243.00 Observation of first stage of labour  25112 Z241.00 Labour established  56915 Z249.00 Labour problem	23548	L301.00	Obstructed labour caused by bony pelvis
36655 Z245.00 Observation of blood loss in labour 99170 Z243.00 Observation of first stage of labour 25112 Z241.00 Labour established 56915 Z249.00 Labour problem	104746	L302z00	Obstructed labour caused by pelvic soft tissues NOS
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25112 Z241.00 Labour established 56915 Z249.00 Labour problem	36655	Z245.00	Observation of blood loss in labour
25112 Z241.00 Labour established 56915 Z249.00 Labour problem	99170	Z243.00	Observation of first stage of labour
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· · · · · · · · · · · · · · · · · · ·	56915	Z249.00	Labour problem
62656   Z255400   Rapid second stage of labour		Z255400	•
94396 L30zz00 Obstructed labour NOS			
29529 L351.00 Rupture of uterus during and after labour			
102136 L292z00 Unspecified maternal pyrexia during labour NOS			

40000	7744 00	
40080	7F11y00	Other specified other induction of labour
46297	Z246311	Onset of labour pains
60333	L301500	Obstructed labour due to pelvic inlet contraction
85226	Lyu4000	[X]Other failed induction of labour
103056	Z244.00	Observation of pattern of labour
64548	L281300	Prem rupture of membranes onset of labour within 24 hours
68319	L351300	Rupture of uterus during/after labour with postnatal problem
62278	L281400	Premature rupture of membranes, labour delayed by therapy
22613	Z248.00	Normal labour
90775	Z246.00	Observation of measures of labour
70150	Z246100	Duration of labour
28928	L140.00	Threatened premature labour
93205	Z255F00	Not pushing well in labour
99660	L300400	Obstructed labour due to face presentation
48274	Q212200	Liveborn with prelabour meconium in liquor
59296	L140000	Threatened premature labour unspecified
9294	L292.00	Maternal pyrexia during labour, unspecified
28830	Z242.00	Labour not established
104206	L29z000	Problems affecting labour NOS unspecified
28700	7F111	Labour operations
30001	L313.00	Precipitate labour
104716	Z255E11	Pushing well in labour
98918	Z247100	Expulsion of IUCD during third stage of labour
62600	L29zz00	Problems affecting labour NOS
364	7F13111	Lower uterine segment caesarean section (LSCS) NEC
13315	14Y0.00	Born by caesarean section
13316	14Y6.00	Born by emergency caesarean section
29155	7F1A000	Caesarean hysterectomy
10049	7F12111	Elective lower uterine segment caesarean section (LSCS)
12118	7F13300	Emergency caesarean section
72513	7F13200	Extraperitoneal caesarean section
15361	14Y2.00	Born by elective caesarean section
8192	Q473.00	Other hypothermia of newborn
3007	Q316.00	Newborn transitory tachypnoea
100616	ZV30100	[V]Singleton, born before admission to hospital
93976	Qyu4200	[X]Other bacterial sepsis of newborn
56336	Q40A100	Sepsis of newborn due to Escherichia coli
66999	Q474111	Newborn environmental hyperthermia
15985	ZV32.00	[V]Twin, mate stillborn
59878	Q463.00	Transitory ileus of newborn
10452	6333	Twins - both live born
93999	6339	Triplets - 3 still born
99418	Q482.00	Central nervous system dysfunction in newborn NOS
41064	Q484.00	Newborn drug reaction and intoxication
56888	Q483000	Newborn feeding problem, unspecified

13304	Q480.12	Seizures in newborn
53052	Q425.00	Late anaemia of newborn due to isoimmunisation
98857	ZV31200	[V]Twin, not hospitalised, mate live born
38852	Q311300	Aspiration of vomit in newborn
104697	G520000	Acute aseptic myocarditis of the newborn
55878	Q494.00	Transient myocardial ischaemia of newborn
108976	6318	Born in hospital
19577	Q417100	Cerebellar (nontraum) and post fossa haemorhage fet newborn
108501	Q484z00	Newborn drug reaction or intoxication NOS
88204	ZV30000	[V]Singleton, born in hospital
98669	Qyu4100	[X]Sepsis/newborn due to other+unspecified staphylococcus
15457	Q482y00	Other newborn abnormal cerebral signs
21839	Q480.11	Fits in newborn
12085	Q404.11	Umbilical stump infection of the newborn
72669	Q452.00	Newborn disseminated intravascular coagulation
20083	Q450.00	Haemorrhagic disease of the newborn
38877	R024z00	[D]Jaundice (not of newborn) NOS
8515	Q31y111	Cyanotic attacks of the newborn
110616	6338	Triplets-1 live+ 2 still born
57128	6336	Triplets - all live born
21468	ZV29100	[V]Newborn receiving special care
14813	Q481.00	Newborn cerebral irritability, unspecified
17482	Q474211	Thermal injury in newborn NEC
47693	Q40W.00	Sepsis of newborn due to other+unspecified streptococci
98366	Qyu4800	[X]Sepsis of newborn due to other+unspecified streptococci
23015	6334	Twins - 1 still + 1 live born
106918	Q44X.00	Trans disorder carbohydrate metab of fet and newborn unsp
57783	Q417000	Intracerebral (nontraumatic) haemorrhage of fet and newborn
9477	Q483.00	Feeding problems in newborn
32703	Q21z.12	Hypoxia in newborn NOS
36071	Q21z.11	Anoxia in newborn NOS
70538	Q475.00	Oedema of newborn unspecified
13300	Q477.00	Newborn breast engorgement
56476	Q482z00	Central nervous system dysfunction in newborn NOS
34502	6335	Twins - both still born
63044	ZV31z00	[V]Twin, mate liveborn, NOS
19579	Q448.00	Newborn late metabolic acidosis
90510	Q44T.00	Transitory metabolic disturbance of newborn, unspecified
64600	Q042.00	Fet newborn affect mat exposure to environml chem subs
89262	Q474z00	Newborn temperature regulation disorder NOS
73978	Qyu3800	[X]Other apnoea of newborn
22031	Q40y200	Septicaemia of newborn
45750	Q4z13	Newborn death
105039	44qW000	Newborn blood spot screening
98938	Qyu6C00	[X]Transitory metabolic disturbance of newborn, unspecified

19585	Q483200	Slow feeding in newborn	
55895	Q474200	Hyperthermia in newborn, unspecified	
31476	9114.11	FP58 - newborn registration	
68065	9114.12	GP58 - newborn registration	
104239	Q48F.00	Hypoxic ischaemic encephalopathy of newborn	
69413	ZV33000	[V]Twin, unspecified, born in hospital	
54589	D400700	Acquired neutropenia in newborn	
26871	Q318.00	Primary sleep apnoea of newborn	
105139	Qyu3700	[X]Other and unspecified atelectasis of newborn	
93859	Qyu8400	[X]Hypothermia of newborn, unspecified	
20478	ZV27200	[V]Twins, both live born	
42527	Q4211	Isoimmunisation of newborn	
98721	P320011	Newborn glaucoma	
19947	ZV31.00	[V]Twin, mate live born	
97799	Qyu3900	[X]Other specified respiratory conditions of newborn	
3613	Q40A.00	Sepsis of the newborn	
109480	44qW100	,	
	Q46X.00	Completion of newborn blood spot screening card	
40296		Intestinal obstruction of newborn, unspecified	
39165	Q483100	Newborn regurgitation of food	
3615	Q436200	Newborn physiological jaundice NOS	
72352	Q474300	Transitory fever of newborn	
40867	Q485100	Withdrawal symptoms from therapeutic use of drugs in newborn	
61943	Q483400	Rumination in newborn	
5173	Q421.11	ABO isoimmunisation of the newborn	
5218	6316	Born before arrival	
56210	Q311100	Aspiration of liquor or mucus in newborn	
109128	Qyu5100	[X]Other umbilical haemorrhages of newborn	
108994	13If000	Unborn child is cause for safeguarding concern	
43366		Phrenic nerve palsy in newborn	
52525	Q462.00	Newborn swallowing maternal blood - haematemesis/melaena	
61729	Q482100	Coma in newborn	
99425	QyuA400	[X]Disorder of muscle tone of newborn, unspecified	
47446	Q474000	Newborn dehydration fever	
44256	9Ea4.00	Unborn child at risk physi/ment abnormal serious handicap	
61800	Q437z00	Kernicterus of newborn NOS	
104301	13lv000	Unborn child subject to child protection plan	
34504	Q485.00	Newborn drug withdrawal syndrome	
23876	Q487.00	Umbilical polyp of newborn	
56909	Q411200	Intraventric (nontraumatic) haemorhage grade 3 fet newborn	
41053	Q483z11	Bottle feeding problem in the newborn	
95873	Q446600	Disturbances of potassium balance of newborn	
52577	Q483500	Underfeeding in newborn	
28758	ZV29200	[V]Newborn receiving intensive care	
47227	ZV27300	[V]Twins, one live born and one stillborn	
38890	ZV27400	[V]Twins, both stillborn	

4 4 6 6 6	71/24/22	Date the state of
44238	ZV31000	[V]Twin, born in hospital, mate live born
50017	Q472.00	Newborn cold injury syndrome
101103	Q214200	Liveborn with meconium liquor, unspecified
109703	41G4.00	Newborn blood spot specimen received
98336	Q311113	Aspiration of amniotic fluid in newborn
64262	Q311112	Aspiration of liquor in newborn
36845	Q311111	Aspiration of mucus in newborn
73521	QyuA200	[X]Other disorders of muscle tone of newborn
72705	QyuA000	[X]Oth specified disturbances of cerebral status of newborn
57674	Q411100	Intraventric (nontraumatic) haemorhage grade 2 fet newborn
65792	Q484000	Grey syndrome of newborn
68254	Q474100	Newborn environmental pyrexia
19576	Q31y600	Apnoea of newborn
97418	Q3012	Pulmonary hypoperfusion syndrome of newborn
108359	ZV30200	[V]Singleton, born outside hospital and not hospitalised
101529	ZV32z00	[V]Twin, mate stillborn, NOS
86001	ZV32000	[V]Twin, born in hospital, mate stillborn
95736	Qyu8000	[X]Other hypothermia of newborn
48664	Q444111	Hypocalcaemic tetany in newborn
11509	Q483300	Vomiting in newborn
99244	Q446500	Disturbances of sodium balance of newborn
19578	Q483600	Overfeeding in newborn
39691	Q40A000	Sepsis of newborn due to Staphylococcus aureus
93597	Q311200	Aspiration of blood in newborn
72704	Qyu3000	[X]Other respiratory distress of newborn
94759	Q214000	Liveborn with abnormal heart beat, unspecified
103401	Q466111	Intestinal obstruction in newborn due to faecoliths
104825	Q453.00	Other newborn transient coagulation defect
47317	Q483z00	Newborn feeding problem NOS
53402	Q483z12	Breast feeding problem in the newborn
110294	QyuA100	[X]Other feeding problems of newborn
73036	6337	Triplets -2 live+ 1 still born
59694	Q411000	Intraventric (nontraumatic) haemorhage grade 1 fet newborn
20005	Q480.00	Convulsions in newborn
26682	Q404.00	Omphalitis of the newborn
37044	Q450.11	Vitamin K deficiency of the newborn
25091	Z23AP00	Premature uterine contraction
102737	L112300	Premature separation of placenta with coagulation defect
53829	L281z00	Premature rupture of membranes NOS
424	L281.00	Premature rupture of membranes
108033	Lyu3D00	[X]Other premature separation of placenta
69713	L281000	Premature rupture of membranes unspecified
59452	L264000	Intrauterine death unspecified
4697	Q10z.11	Intrauterine growth retardation
1413	L264.00	Intrauterine death

00500	7504600	Induction to a particular control of the control of
89588	7E0A600	Intrauterine insemination without superovulation donor sperm Intrauterine death NOS
37831	L264z00	
111544	7E0A500	Intrauterine insemination without superovulat partner sperm
48471	PF6D200	Intrauterine amputation of lower limb
91652	7E0A300	Intrauterine insemination superovulation partner sperm
88271	7E0A400	Intrauterine insemination superovulation using donor sperm
36694	Q2111	Intrauterine hypoxia
9542	L265311	Maternal care for intrauterine growth retardation
57522	Q451y11	Neonatal thrombocytopenia due to platelet alloimmunisation
44062	A984000	Neonatal gonococcal conjunctivits
41151	Q406611	Neonatal viral dacryocystitis or conjunctivitis
45852	Q406613	Neonatal conjunctivitis due to virus
18439	44qW.00	Neonatal screening test
63783	Q407y00	Other specified neonatal candida infection
71752	Q457000	Neonatal isoimmune neutropenia
30795	Q492.00	Neonatal hypertension
109861	Q444100	Other neonatal hypocalcaemia
53387	1416.00	H/O: neonatal abstinence syndrome
13297	Q447.00	Neonatal hypoglycaemia
110197	Q44y.00	Other transitory neonatal endocrine and metabolic problem
95112	Q407511	Neonatal monilial septicaemia
31315	Q4111	Neonatal haemorrhage
11629	2FX00	O/E - Umbilical stump - neonatal
99830	Q446y00	Other specified transitory neonatal electrolyte disturbance
52572	Q406300	Neonatal dacryocystitis or conjunctivitis due to E.Coli
67105	Q446300	Transitory neonatal hyperkalaemia
73994	Q406400	Neonatal dacryocystitis/conjunctivitis due to staphylococcus
32722	9kJ00	Neonatal check - enhanced services administration
18991	313K.00	Neonatal hearing test
100646	67AD.00	Neonatal feeding education
37782	F251100	Neonatal myoclonic epilepsy
70045	Q45y.00	Other specified transient neonatal blood disorder
13302	Q407.12	Neonatal thrush
40123	Q407.11	Neonatal monilia
72350	Q451y00	Other specified transient neonatal thrombocytopenia
97518	Q451z00	Transient neonatal thrombocytopenia NOS
48202	Q48A.00	Neonatal cerebral leukomalacia
29743	Q407000	Neonatal candidiasis of mouth
29715	Q406.00	Neonatal dacryocystitis and conjunctivitis
55492	Q447000	latrogenic neonatal hypoglycaemia
69813	Q407z00	Neonatal candida infection NOS
8069	Q433A00	Neonatal jaundice from breast milk inhibitor
3211	Q433200	Breast feeding inhibitors causing neonatal jaundice
7818	Q31y500	Neonatal snuffles
26686	Q485200	Neonatal Abstinence Syndrome

17940	F4F5400	Neonatal nasolacrimal duct obstruction
64472	Q44V.00	Neonatal goitre, not elsewhere classified
32327	Q406712	Neonatal conjunctivitis due to chlamydiae
94578	Q457z00	Transient neonatal neutropenia NOS
46817	Q446200	Transitory neonatal hyponatraemia
93307	Q41y400	Neonatal rectal haemorrhage
72370	J004400	Neonatal enamel hypoplasia
93210	Q446z00	Transitory neonatal electrolyte disturbance NOS
36127	Q406412	Neonatal conjunctivitis due to staphylococcus
26678	Q406411	Neonatal dacryocystitis due to staphylococcus
21472	Q441.00	Neonatal diabetes mellitus
48010	Q443.00	Neonatal thyrotoxicosis
39055	9kJ0.00	Neonatal check - enhanced service completed
15487	Q407100	Neonatal candidiasis of perineum
28292	Q405.00	Neonatal infective mastitis
16482	Q407.00	Neonatal candida infection
2240	Q4z12	Neonatal death
109658	Qyu5300	[X]Other neonatal gastrointestinal haemorrhage
53603	Q48C.00	Neonatal hypotension
17496	Q31y511	Neonatal sniffles
48638	Q433800	Neonatal jaundice with porphyria
28341	Q48y600	Early neonatal death
44358	Q44y000	Transitory neonatal tyrosinaemia
63759	Q406y00	Other specified neonatal dacryocystitis or conjunctivitis
23422	Q406100	Neonatal conjunctivitis
51913	Q41y300	Neonatal melaena
38485	7L13000	Neonatal exchange blood transfusion
35727	Q407200	Neonatal candidiasis of other skin
49769	ZV29000	[V]Normal level of neonatal care
45303	Q433000	Delayed conjugation causing neonatal jaundice, unspecified
55360	Q433z00	Delayed conjugation causing neonatal jaundice NOS
30742	F13z500	Benign neonatal sleep myoclonus
21164	Q48y411	Neonatal 'craniotabes'
56614	Q488.00	Neonatal cerebral ischaemia
104194	2L00	Neonatal examination
38163	Q46y100	Neonatal diarrhoea
45444	Q457.00	Transient neonatal neutropenia
36564	Q48y700	Late neonatal death
45012	Q44U.00	Transitory neonatal endocrine disorder, unspecified
49516	Q414300	Neonatal vaginal haemorrhage
27845	Q446000	Neonatal dehydration
93156	Q433y11	Neonatal jaundice - deficiency enzyme for bilirubin conjug.
65686	Q444.12	Neonatal hypoparathroidism
72347	Q406800	Neonatal dacryocystitis/conjunctivitis-other inclusion body
72494	Q406812	Neonatal conjunctivitis due to other inclusion body

40==6	0.400011	
43576	Q406811	Neonatal dacryocystitis due to other inclusion body
27962	Q311400	Neonatal aspiration of milk and regurgitated food
24792	Q31y611	Neonatal apnoeic attack
106500	Q44A.00	Neonatal hypoparathyroidism
27793	Q406700	Neonatal dacryocystitis or conjunctivitis due to chlamydiae
35507	Q433.00	Other neonatal jaundice - delayed conjugation other cause
58833	Q433700	Neonatal jaundice with congenital hypothyroidism
47909	Q449.00	Neonatal tetany without calcium or magnesium deficiency
71056	Q433y00	Delayed conjugation causing neonatal jaundice OS
37776	Q446100	Transitory neonatal hypernatraemia
91557	Q406z00	Neonatal dacryocystitis or conjunctivitis NOS
23566	Q490.00	Neonatal cardiac failure
35477	Qyu5A00	[X]Neonatal jaundice from other+unspcf hepatocellular damage
28361	Q436100	Transient neonatal hyperbilirubinaemia
48869	Qyu5900	[X]Neonatal jaundice due/other specifd excessive haemolysis
64999	Q406200	Neonatal dacryocystitis
55634	Q442.00	Neonatal myasthenia gravis
18578	Q47y200	Neonatal skin infection
20894	Q444.00	Neonatal hypocalcaemia
37953	Q444z00	Neonatal hypocalcaemia NOS
55689	Q407500	Neonatal candida septicaemia
104225	Q434100	Giant cell hepatitis causing neonatal jaundice
39574	Q406512	Neonatal conjunctivitis due to other bacteria
37045	Q406511	Neonatal dacryocystitis due to other bacteria
68264	Q406600	Neonatal dacryocystitis or conjunctivitis due to virus
54971	Q446.00	Other transitory neonatal electrolyte disturbance
66985	Q433600	Neonatal jaundice with Gilbert's syndrome
39164	Q430000	Neonatal jaundice + glucose-6-phosphate dehydrogenase defic.
99435	N000500	Neonatal lupus erythematosus
6097	Q40y100	Neonatal urinary tract infection
40869	Qyu5B00	[X]Neonatal jaundice from other specified causes
57203	Q445.00	Neonatal hypomagnesaemia
106854	Q451100	Trans neonatal thrombocyto due to idopath matern thrombocyto
54169	Q491.00	Neonatal cardiac dysrhythmia
105058	Qyu3300	[X]Other neonatal aspiration syndromes
109912	Qyu6200	[X]Other neonatal hypocalcaemia
49462	Q41y200	Neonatal haematemesis
110458	Q3200	Neonatal respiratory distress syndrome
13301	Q478.00	Neonatal erythema toxicum
94612	Q433500	Neonatal jaundice with Dubin-Johnson syndrome
7475	ZV29212	[V]Neonatal care on NNU
47540	ZV29211	[V]Neonatal care on ITU
68708	Q406311	Neonatal dacryocystitis due to E.Coli
89700	Q406312	Neonatal conjunctivitis due to E.coli
71441	Q451.00	Transient neonatal thrombocytopenia

63790	Q46y000	Neonatal peritonitis NOS
72975	Qyu6000	[X]Other neonatal hypoglycaemia
96590	67AD.11	Neonatal feeding advice
90526	Q444011	Neonatal cows' milk hypocalcaemia
71986	Q446400	Transitory neonatal hypokalaemia
71532	Q406500	Neonatal dacryocystitis/conjunctivitis due to other bacteria
6883	Q317000	Perinatal bronchopulmonary dysplasia
94812	Qyu3A00	[X]Oth cardiovascular disorders originating/perinatal period
54248	Q415.00	Perinatal adrenal haemorrhage
21461	Q400	Other perinatal conditions
45002	Q412.00	Perinatal subarachnoid haemorrhage
87844	7F2A000	Obstetric umbilical artery Doppler
41899	L240000	Congenital abnormality of uterus affecting obstetric care
25731	Z2700	Obstetric investigative observation
101334	8HQ2000	Referral for obstetric ultrasound scan
32913	Z2800	Obstetric pelvic observation
34677	7F23000	Immed repair obstetric laceration of uterus or cervix uteri
58517	L244012	Rectocele affecting obstetric care
29087	7F25z00	Obstetric monitoring NOS
35601	7F23z00	Immediate repair of obstetric laceration NOS
13700	ZL5D100	Referral to obstetrician
13317	2700	Obstetric examination
110628	L43y.11	Fat embolism - obstetric
34046	7F200	Other obstetric operations
60507	L35z000	Obstetric trauma NOS, unspecified
56727	5392	Obstetric X-ray - placenta
59623	L3500	Other obstetric trauma
52679	L417.00	Obstetric cerebral venous thrombosis
13039	L383.00	Obstetric toxic reaction to local anaesthesia
20907	L244011	Cystocele affecting obstetric care
72298	L355.00	Other obstetric pelvic organ damage
102027	L35yz00	Other obstetric trauma NOS
34210	L240011	Bicornuate uterus affecting obstetric care
85951	7F28z00	Other non routine obstetric scan NOS
34086	7Fz00	Obstetric operations NOS
67257	L35y.00	Other obstetric trauma OS
39036	7F00	Obstetric operations
11268	7F23.12	Immediate suture of obstetric laceration
59059	L433.12	Septic obstetric embolism
14970	7F23100	Immed repair obstetric laceration perineum & anal sphincter
68557	L353000	Obstetric laceration of cervix unspecified
73797	L353z00	Obstetric laceration of cervix NOS
101752	L391000	Obstetric shock unspecified
85244	7F2B.00	Obstetric ultrasound monitoring
95698	7F28y00	Other specified other non routine obstetric scan

E 4 4 7 2	1244000	
54473	L244000	Other uterine/pelvic floor abnormal affecting obstetric care
85245	7F26z00	Routine obstetric scan NOS
55573	8HJ7.00	Obstetric self-referral
88229	7F2A.00	Obstetric Doppler studies
78449	7F28.00	Other non routine obstetric scan
68966	Lyu7.00	[X]Other obstetric conditions, not elsewhere classified
105817	9381	Obstetric coop card issued
93136	L241000	Tumour of uterine body affecting obstetric care
86011	7F26.00	Routine obstetric scan
35558	58412	U-S scan - obstetric, diagn.
55750	L353.00	Obstetric laceration of cervix
65231	9384	Obstetric coop card updated
106154	7F2Ay00	Other specified obstetric Doppler studies
109880	7F2Az11	Obstetric doppler ultrasound NOS
48200	8HMN.00	Listed for Obstetric admission
51929	L354.11	High vaginal laceration - obstetric
34843	L352.11	Inversion of uterus - obstetric
44286	ZL1C200	Under care of obstetrician
4797	5842	U-S obstetric scan normal
49661	7Fy00	Other specified obstetric operations
47156	L357.00	Obstetric trauma causing pelvic haematoma
26698	27Z00	Obstetric examination NOS
104979	L354z00	Obstetric high vaginal laceration NOS
94444	L352z00	Obstetric inversion of uterus NOS
2382	584Z.00	U-S obstetric diagn. scan NOS
71742	L354000	Obstetric high vaginal laceration unspecified
20826	L241011	Uterine fibroid affecting obstetric care
13318	27111	O/E - fundus size - obstetric
94059	7F2Az00	Obstetric Doppler studies NOS
28730	L355.11	Bladder injury - obstetric
27916	L353.12	Tear of cervix - obstetric
86021	7F24.00	Other obstetric operations
22929	8H3C.00	Non-urgent obstetric admission
105146	7F2Ay11	Other specified obstetric doppler ultrasound
69458	L354.00	Obstetric high vaginal laceration
33352	L352.00	Obstetric inversion of uterus
23800	7F23.11	Immediate repair of obstetric tear
29685	5843	U-S obstetric scan abnormal
70607	7F23300	Immediate repair of minor obstetric laceration
24655	8H27.00	Admit obstetric emergency
106067	L246000	Other cervical abnormality affecting obstetric care
53094	7F25y00	Other specified obstetric monitoring
98057	L248000	Vulval abnormality affecting obstetric care
36959	L391.00	Obstetric shock
17911	L416.11	Piles - obstetric

40000	E04 00	110.
19800	58400	Ultrasound in obstetric diagn.
62012	7F2z.00	Other obstetric operations NOS
60870	938Z.00	Obstetric coop card NOS
20591	53900	Abdominal obstetric X-ray
23169	539Z.00	Abdominal obstetric X-ray NOS
98639	L43zz00	Obstetric pulmonary embolism NOS
101944	L43z000	Obstetric pulmonary embolism NOS, unspecified
34533	8HV6.00	Private referral to obstetrician
35197	8HLN.00	Obstetric D.V. done
104205	7F2A100	Obstetric uterine artery Doppler
102802	7F2By00	Other specified obstetric ultrasound monitoring
12625	7F25.00	Obstetric monitoring
57891	7F23.00	Immediate repair of obstetric laceration
54582	L35zz00	Obstetric trauma NOS
13965	58413	Ultra-sound scan - obstetric
96343	7F26y00	Other specified routine obstetric scan
100451	7F24100	Obstetric uterine tamponade
27019	5841	U-S obstetric scan requested
87848	7F2Bz00	Obstetric ultrasound monitoring NOS
91278	L357000	Obstetric pelvic haematoma unspecified
36340	93800	Obstetric coop card
19327	L411.11	Perineal obstetric varicose veins
20496	L411.12	Vulval obstetric varicose veins
27650	L384.00	Obstetric spinal and epidural anaesthesia-induced headache
107037	Lyu4C00	[X]Other specified obstetric trauma
43628	L247011	Septate vagina affecting obstetric care
11988	8H57.00	Obstetric referral
11204	27112	O/E - uterus size - obstetric
48311	Z261.00	Observation of gestational sac
43004	Q1300	Light for gestational age
22385	Z22C300	Length of gestation
91915	7M0f400	From 9 weeks to <14 weeks gestational age
50704	Q113.00	Light for gestational age
69250	L169000	Herpes gestationis unspecified
59681	L41z511	Gestational phlebitis NOS
34265	L16C000	Gestational proteinuria
60330	L1900	Complications specific to multiple gestation
34505	62X3.00	Full term gestation - 40 weeks
90884	7M0f200	9 - 13 weeks gestational age
29565	L161.13	Gestational oedema
102435	8CE0000	Gestational diabetes information leaflet given
34484	62X1.00	Gestation = 24 weeks
49663	Z261100	Gestational sac present
7515	L169.00	Herpes gestationis
37201	L16C100	Gestational oedema with proteinuria

50081	L41z512	Gestational phlebopathy NOS
58971	L41z513	Gestational thrombosis NOS
16975	L2111	Gestation - multiple
97682	7M0fy00	Other specified gestational age
95702	7M0f300	Under 9 weeks gestational age
108013	ZC2CB00	Dietary advice for gestational diabetes
26556	62X2.00	Gestation >24 weeks
26555	62X0.00	Gestation <24 weeks
111075	Qyu1200	[X]Other 'heavy for gestational age' infants
86327	7M0f000	Over 20 weeks gestational age
91101	7M0fz00	Gestational age NOS
103954	62X5.00	Length of gestation at time of test
2664	L180900	Gestational diabetes mellitus
95703	7M0f100	14 - 20 weeks gestational age
8446	L180811	Gestational diabetes mellitus
40703	L169z00	Herpes gestationis NOS
43805	Z22C312	Duration of gestation
18810	62X00	Length of gestation
103090	Lyu3000	[X]Other multiple gestation
55352	7M0f.00	Gestational age
21526	L123500	Gestational hypertension

colour	condition	time frame
green	pregnancy	7/12 mths
blue	birth	<21 days postpartum
yellow	abortion/ miscarrage	<5 days

## Appendix 4: Additional CPRD browser pregnancy medcodes

Medcode	Readcode	Readterm
6298	ZV28.00	[V]Antenatal screening
94405	L413100	Antenatal deep vein thrombosis - delivered
99188	L173.00	Maternal tuberculosis in pregnancy/childbirth/puerperium
63781	L410z00	Varicose veins of legs in pregnancy and puerperium NOS
45870	Ly00	Complications of pregnancy, childbirth or the puerperium OS
52106	L412z00	Superficial thrombophlebitis in pregnancy and puerperium NOS
86991	L172000	Other maternal venereal disease, unspec pregnancy/puerperium
4243	L466.00	Galactorrhoea in pregnancy and the puerperium
70092	L460.00	Retracted nipple in pregnancy, the puerperium or lactation

16995	L462.00	Breast engorgement in pregnancy, the puerperium or lactation	
59573	L176500	Viral hepatitis comp pregnancy, childbirth & the puerperium	
88361	L248.11	Persistent hymen in pregnancy, childbirth and the puerperium	
31610	L248.13	Vulval abnormality in pregnancy/childbirth/puerperium	
92998	Lyu1.00	[X]Oedema, proteinuria + hypertens in pregnancy, childbrth, puerp	
20597	12G4.00	FH: Multiple pregnancy	
28446	Lz00	Complications of pregnancy, childbirth and the puerperium NOS	
63835	L247z11	Septate vagina in pregnancy/childbirth/puerperium NOS	
109550	L416400	Haemorrhoids in pregnancy and puerperium with p/n comp	
59276	L032.00	Ovarian pregnancy	
65579	L415.00	Other phlebitis and thrombosis in pregnancy and puerperium	
93143	L121.00	Renal hypertension in pregnancy/childbirth/puerperium	
60154	L2400	Pelvic soft tissue abnormality in pregnancy/childbirth/puerp	
71717	L121100	Renal hypertension in pregnancy/childbirth/puerp - delivered	
24006	L466100	Galactorrhoea in pregnancy and the puerperium - delivered	
44069	L1800	Other medical condition in pregnancy/childbirth/puerperium	
47918	L090300	Salpingitis following abortive pregnancy	
11152	L00	Complications of pregnancy, childbirth and the puerperium	
63644	L181z00	Thyroid dysfunction in pregnancy/childbirth/puerperium NOS	
96004	L183z00	Drug dependence during pregnancy/childbirth/puerperium NOS	
1771	L182.00	Anaemia during pregnancy, childbirth and the puerperium	
46744	L4100	Venous complications of pregnancy and the puerperium	
90329	L416z00	Haemorrhoids in pregnancy and the puerperium NOS	
41050	Z200	Pregnancy, childbirth and puerperium observations	
39550	L244z11	Cystocele in pregnancy, childbirth or the puerperium NOS	
64147	L244z12	Rectocele in pregnancy, childbirth or the puerperium NOS	
15297	L461400	Cracked nipple in pregnancy/puerperium/lactation + p/n comp	
73717	L463300	Other breast disorder in pregnancy/puerperium/lact +a/n comp	
98264	L165200	Asymptomatic bacteriuria in pregnancy - del with p/n comp	
53310	L1z00	Complications of pregnancy/childbirth/puerperium NOS	
103144	L416300	Haemorrhoids in pregnancy and puerperium with a/n comp	
46756	L184.00	Mental disorders in pregnancy, childbirth and the puerperium	
26023	L411300	VV's of perineum/vulva in pregnancy/puerperium + a/n comp	
58140	L173000	Maternal tuberculosis, unspec whether in pregnancy/puerperium	
73089	L460000	Retracted nipple in pregnancy/puerperium/lactation unspec	
67006	L096400	Pulmonary embolism following abortive pregnancy	
65085	L092000	Bladder damage following abortive pregnancy	
23840	L090z00	Septicaemia NOS following abortive pregnancy	
51359	L090200	Pelvic peritonitis following abortive pregnancy	
106097	L09y.00	Other specified complication following abortive pregnancy	
12604	L120.00	Benign essential hypertension in pregnancy/childbirth/puerp	

103683	8Hki.00	Referral to teenage pregnancy and parenting support service
42091	L411z00	Varicose veins of perineum/vulva in pregnancy/puerperium NOS
96437	L170000	Maternal syphilis, unspec whether in pregnancy or puerperium
20850	L244.11	Cystocele in pregnancy, childbirth and the puerperium
35903	L244.12	Pendulous abdomen in pregnancy, childbirth and the puerperium
39492	L244.13	Rectocele in pregnancy, childbirth and the puerperium
71943	L411000	VV's of perineum/vulva in pregnancy/puerperium unspecified
93583	L096.00	Embolism following abortive pregnancy
34182	1547	H/O: medical termination of pregnancy
70422	L093400	Uraemia following abortive pregnancy
103222	L248z11	Persistent hymen in pregnancy/childbirth/puerperium NOS
97296	L461200	Cracked nipple in pregnancy/puerp/lact - deliv + p/n comp
5541	1544	H/O: ectopic pregnancy
58982	L186.00	Other cardiovascular diseases in pregnancy/childbirth/puerp
62886	L461z00	Cracked nipple in pregnancy, the puerperium or lactation NOS
41473	L183.00	Drug dependence in pregnancy, childbirth and the puerperium
48552	L010.11	Anembryonic pregnancy
33634	L182z00	Anaemia during pregnancy/childbirth/puerperium NOS
64384	L180z00	Diabetes mellitus in pregnancy/childbirth/puerperium NOS
25759	L411.00	VV's of perineum/vulva in pregnancy/puerperium
38556	67A7.00	Pregnancy dental advice
41718	L1y00	Complications of pregnancy/childbirth/puerperium OS
53056	L246.11	Polyp of cervix in pregnancy, childbirth and the puerperium
73557	L188z00	Abnormal GTT in pregnancy/childbirth/puerperium NOS
69012	L466300	Galactorrhoea in pregnancy/puerperium with a/n complication
57131	L462100	Breast engorgement in pregnancy/puerperium/lactation - deliv
64260	L18D.00	Dis nervous syst complic pregnancy, childbirth and puerperium
59493	L090400	Salpingo-oophoritis following abortive pregnancy
104656	Ly200	Sequelae of complication pregnancy childbirth and puerperium
16046	L410.00	Varicose veins of legs in pregnancy and the puerperium
72215	L241z00	Uterine body tumour in pregnancy/childbirth/puerperium NOS
13245	12G2.00	FH: Diabetes in pregnancy
106736	9mK1.00	Pertussis vaccination in pregnancy invitation second letter
66537	L170100	Maternal syphilis during pregnancy - baby delivered
92415	L095.00	Shock following abortive pregnancy
35273	L097.00	Readmission for abortive pregnancy (NHS codes)
20152	L090y00	Sepsis NOS following abortion/ectopic/molar pregnancy
50009	L461100	Cracked nipple in pregnancy/puerperium/lactation - delivered
71162	L16y100	Other pregnancy complication - delivered
102635	8Cg00	Pregnancy termination care
104806	L463100	Other breast disorder in pregnancy/puerperium/lact - deliv

63319	L096.11	Embolus following abortive pregnancy
94527	L16y400	Other pregnancy complication with postnatal complication
9170	L1200	Hypertension complicating pregnancy/childbirth/puerperium
73432	L18z100	Medical condition NOS during pregnancy - baby delivered
104466	L179.00	HIV disease complicating pregnancy childbirth puerperium
47197	L410400	Varicose veins of legs in pregnancy/puerperium + p/n comp
54761	L170.00	Maternal syphilis in pregnancy/childbirth/puerperium
63773	L416100	Haemorrhoids in pregnancy and the puerperium - delivered
101499	L246z12	Stenosis of cervix in pregnancy/childbirth/puerperium NOS
33255	L246z11	Polyp of cervix in pregnancy/childbirth/puerperium NOS
56542	L240z11	Bicornuate uterus in pregnancy, childbirth or puerperium NOS
41016	L247.11	Septate vagina in pregnancy, childbirth and the puerperium
40262	L247.13	Vaginal abnormality in pregnancy/childbirth/puerperium
6478	L188.00	Abnormal glucose tolerance test in pregnancy/childb/puerp
59910	L17z.00	Maternal infect/parasitic dis NOS in pregnancy/childb/puerp
62052	L092500	Uterus damage following abortive pregnancy
97836	L242100	Uterine operation scar in pregnancy/childbirth/puerp - deliv
99889	L16A200	Glycosuria during pregnancy - delivered with p/n comp
98981	L166400	Genitourinary tract infection in pregnancy with p/n comp
59601	L462200	Breast engorgement in pregnancy/puerp/lact - del + p/n comp
16017	L166100	Genitourinary tract infection in pregnancy - delivered
10205	ZG900	Advice relating to pregnancy and fertility
105500	L41yz00	Other venous complication of pregnancy and puerperium NOS
41283	L187.00	Orthopaedic disorders in pregnancy/childbirth/puerperium
63379	L183100	Drug dependence during pregnancy - baby delivered
38871	L246.00	Other cervical abnormality in pregnancy/childbirth/puerp
47686	L181.00	Thyroid dysfunction in pregnancy/childbirth/puerperium
23691	L172.00	Other venereal diseases in pregnancy/childbirth/puerperium
107197	L170z00	Maternal syphilis in pregnancy/childbirth/puerperium NOS
68215	L188100	Abnormal GTT during pregnancy - baby delivered
40723	L12z.00	Unspecified hypertension in pregnancy/childbirth/puerperium
104542	67AH.00	Education about toxoplasmosis precautions during pregnancy
97741	L461000	Cracked nipple in pregnancy/puerperium/lactation unspecified
67035	L123200	Transient hypertension of pregnancy - deliv with p/n comp
64125	L09yz00	Other specified complication NOS follow abortive pregnancy
57640	L242z00	Uterine operation scar in pregnancy/childbirth/puerp NOS
2924	7E06600	Hysterotomy and termination of pregnancy
27952	ZV13900	[V]PH comp of pregnancy, childbirth and the puerperium
53141	L241.00	Tumour of uterine body in pregnancy/childbirth/puerperium
35928	L463000	Other breast disorder in pregnancy/puerperium/lact unspec
40121	12G1.00	FH: Raised B.P. in pregnancy

11359	L180.00	Diabetes mellitus during pregnancy/childbirth/puerperium
33708	L182100	Anaemia during pregnancy - baby delivered
58686	L462000	Breast engorgement in pregnancy/puerperium/lactation unspec
6560	L416.00	Haemorrhoids in pregnancy and the puerperium
98133	9Ea0.00	Risk life pregnant woman greater than if pregnancy terminatd
32950	L03y100	Cornual pregnancy
105006	Q48G.00	Complication termination pregnancy affecting fetus newborn
107708	L415100	Other phlebitis/thrombosis in pregnancy/puerperium - deliv
28225	L240.11	Bicornuate uterus in pregnancy, childbirth and puerperium
49789	L240.12	Double uterus in pregnancy, childbirth and the puerperium
56217	L416000	Haemorrhoids in pregnancy and the puerperium unspecified
99154	L410000	Varicose veins of legs in pregnancy/puerperium unspecified
96724	L162100	Unspecified renal disease in pregnancy - delivered
101260	L10z100	Early pregnancy haemorrhage NOS - delivered
35859	67A5.00	Pregnancy alcohol advice
42598	L175.00	Maternal rubella in pregnancy, childbirth and the puerperium
72437	L248z00	Vulval abnormality in pregnancy/childbirth/puerperium NOS
101272	L462300	Breast engorgement in pregnancy/puerperium/lact + a/n comp
92362	L240z00	Congenital abnormality uterus in pregnancy/childb/puerp NOS
63362	L091100	Defibrination syndrome following abortive pregnancy
73311	L41z.00	Venous complications of pregnancy and puerperium NOS
34639	L180100	Diabetes mellitus during pregnancy - baby delivered
43754	L18z.00	Medical condition NOS in pregnancy/childbirth/puerperium
30948	L150100	Post-term pregnancy - delivered
73647	L188000	Abnormal GTT - unspec whether during pregnancy/puerperium
54681	L189.00	Dis resp syst comp pregnancy, childbirth & puerperium
99365	L460z00	Retracted nipple in pregnancy/puerperium/lactation NOS
64649	L175100	Maternal rubella during pregnancy - baby delivered
28611	L461.00	Cracked nipple in pregnancy, the puerperium or lactation
61144	L463.00	Other breast disorder in pregnancy/puerperium/lactation
50571	L090100	Parametritis following abortive pregnancy
70342	L123400	Transient hypertension of pregnancy + postnatal complication
99422	L187000	Orthopaedic disorder - unsp whether in pregnancy/puerperium
32007	L090.00	Genital or pelvic infection following abortive pregnancy
45242	L241.11	Uterine fibroids in pregnancy, childbirth and the puerperium
7270	12G4.11	FH: Twin pregnancy
38440	L462z00	Breast engorgement in pregnancy/puerperium/lactation NOS
89557	L092300	Cervix damage following abortive pregnancy
41961	L171.00	Maternal gonorrhoea during pregnancy/childbirth/puerperium
50908	L242.00	Uterine scar from previous surgery in pregnancy/childb/puerp
16752	ZV72900	[V]Pregnancy examination and test

14765	L462400	Breast engorgement in pregnancy/puerperium/lact + p/n comp
15633	L182000	Anaemia - unspecified whether in pregnancy or the puerperium
73757	L247z00	Vaginal abnormality in pregnancy/childbirth/puerperium NOS
99389	L460300	Retracted nipple in pregnancy/puerperium/lact with a/n comp
24303	9Ea00	Reason for termination of pregnancy
55757	L16y200	Other pregnancy complication - delivered with postnatal comp
67635	L180000	Diabetes mellitus - unspec whether in pregnancy/puerperium
51639	L241z11	Uterine fibroid in pregnancy/childbirth/puerperium NOS
40978	Z22A700	Surrogate pregnancy
18944	7E07011	Dilation cervix uteri & curettage for termination pregnancy
54107	L10z000	Early pregnancy haemorrhage NOS unspecified
103610	9NkN.00	Seen in early pregnancy unit
70476	L132100	Late pregnancy vomiting - delivered
23456	L412.00	Superficial thrombophlebitis in pregnancy and the puerperium
67377	L463z00	Other breast disorder in pregnancy/puerperium/lactation NOS
94736	L096600	Septic embolism following abortive pregnancy
94353	L175000	Maternal rubella, unspecified whether pregnancy/puerperium
64127	L121000	Renal hypertension in pregnancy/childbirth/puerp unspecified
99594	L415000	Other phlebitis/thrombosis in pregnancy/puerperium unsp
50093	L093000	Oliguria following abortive pregnancy
28312	L466z00	Galactorrhoea in pregnancy and the puerperium NOS
72944	L176.00	Other maternal viral dis. in pregnancy/childbirth/puerperium
49390	L174.00	Maternal malaria in pregnancy, childbirth and the puerperium
97629	L246z00	Other cervical abnormality in pregnancy/childbirth/puerp NOS
57419	L167100	Liver disorder in pregnancy - delivered
73927	L175z00	Maternal rubella in pregnancy/childbirth/puerperium NOS
54089	L466000	Galactorrhoea in pregnancy and the puerperium unspecified
94718	L121z00	Renal hypertension in pregnancy/childbirth/puerperium NOS
105918	L09y400	Urinary tract infection following abortive pregnancy
30326	L090000	Endometritis following abortive pregnancy
38022	Z22CF00	Date symptom of pregnancy first noted
69703	L185100	Congenital cardiovasc dis in pregnancy - baby delivered
69911	L18zz00	Medical condition NOS in pregnancy/childb/puerp NOS
35680	Q423.00	Hydrops fetalis due to isoimmunisation
59296	L140000	Threatened premature labour unspecified