BMJ Open Primary care and cancer: an analysis of the impact and inequalities of the COVID-19 pandemic on patient pathways

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ABSTRACT

Objectives We explore the routes to cancer diagnosis to further undertanding of the inequality in the reduction in detection of new cancers since the start of the pandemic. We use different data sets to assess stages in the cancer pathway: primary care data for primary care consultations, routine and urgent referrals and published analysis of cancer registry data for appointments and first treatments. **Setting** Primary and cancer care.

Participants In this study we combine multiple data sets to perform a population-based cohort study on different areas of the cancer pathway. For primary care analysis, we use a random sample of 5 00 000 patients from the Clinical Practice Research Datalink. Postreferral we perform a secondary data analysis on the Cancer Wait Times data and the National Cancer Registry Analysis Service COVID-19 data equity pack.

Outcome measures Primary care: consultation, urgent cancer referral and routine referral rates, then appointments following an urgent cancer referral, and first treatments for new cancer, for all and by guintile of patient's local area index of multiple deprivation. **Results** Primary care contacts and urgent cancer referrals in England fell by 11.6% (95% Cl 11.4% to 11.7%) and 20.2% (95% CI 18.1% to 22.3%) respectively between the start of the first non-pharmaceutical intervention in March 2020 and the end of January 2021, while routine referrals had not recovered to prepandemic levels. Reductions in first treatments for newly diagnosed cancers are down 16.3% (95% CI 15.9% to 16.6%). The reduction in the number of 2-week wait referrals and first treatments for all cancer has been largest for those living in poorer areas, despite having a smaller reduction in primary care contact. Conclusions Our results further evidence the strain on primary care and the presence of the inverse care law. and the dire need to address the inequalities so sharply brought into focus by the pandemic. We need to address the disconnect between the importance we place on the role of primary care and the resources we devote to it.

INTRODUCTION

The COVID-19 pandemic has had a profound impact on UK's health system. Each part of the UK's National Health Service (NHS) has been impacted in different ways, and we are still feeling many of the consequences of both the

Strengths and limitations of this study

- This study draws from multiple data sets along the complex, multidisciplinary cancer pathway.
- We use a rich primary care data set containing patient level primary care activity linked to patients' local area socioeconomic indicator.
- Our primary care patient sample is relatively small (500 000 active patients from January 2016 to January 2021); however, the data produces results that closely mirror the rates of consultation and urgent cancer referral per patient produced in publicly available national data sets.

Key messages

- Primary care is key part of the pathway for early cancer diagnosis through both routine and 2-week wait referrals.
- Cancer diagnosis rates have experienced a sustained fall since the start of the COVID-19 pandemic and introduction of non-pharmaceutical interventions 'lockdowns'.
- The fall in urgent cancer referral is larger than the fall in primary care contacts, implying that the content of consultations has shifted away from potential cancer diagnosis.
- Despite having a smaller reduction in primary care contact through the pandemic, patients living in poorer areas have had larger reductions in urgent cancer referrals and first treatments for new cancer.
- Government, patients and primary care staff must work together to catch up on missing diagnosis.
- Resilience in primary care is key for the cancer diagnosis pathway and must be developed for future disruptions, particularly in poorer areas where care is more complex.

COVID-19 pandemic and the public health measures put in place to manage it (nonpharmaceutical interventions, NPIs). Cancer is one of the most complicated diseases that the UK health system must manage, being responsible for over one in four UK deaths in 2019. Cancer outcomes are acutely sensitive to changes in social determinants, patient pathways and service provision. Delays in both diagnosis and treatment have significant impacts on patient outcomes.^{1 2} Pandemic-related diagnostic delays, lack of capacity and downstream stage progression (to more advanced disease) are already being seen.³ In addition, the impact of the pandemic needs to be seen in the context of an already overstretched UK cancer care system prepandemic that was 'burning hot' even in normal times.⁴

Primary care sits at the heart of the cancer patient pathway and is the most crucial interface for early diagnosis and referral to hospital-based care, in addition to their wider support of patient with undergoing and after treatment. As models of cancer care have evolved in light of both technical advances and an ageing comorbid population, primary care has become an increasingly important aspect of integrated cancer care and an expansion of general practitioner (GP) roles in cancer care.⁵ On average, 22.5% of patients diagnosed with cancer are referred to oncology diagnostic services from primary care, but this reflects wide site-specific variation from as little as 8.3% of breast cancer to 42% for bladder cancer.⁶

It is important to reflect that prior to the start of the COVID-19 pandemic, primary care had seen significant declines in overall resourcing relative to the funding of the rest of the NHS and compared with growing levels of disease burden that is managed in primary care. In addition, there is growing evidence that primary care has been under greater pressure in more deprived areas, with higher levels of staff turnover,⁷ higher levels of complex multimorbidity,⁸ higher numbers of consultations⁹ and lower levels of funding and fewer GPs per capita once levels of ill health are taken into account.¹⁰ These pressures on primary care, and a desire to correct them, have been recognised in the NHS Long Term Plan.¹¹

Thus, to understand the COVID-19's impact on primary care and the downstream impact on cancer outcomes we need to see that the pandemic arrived when the system that was already struggling to cope. Prior to COVID-19, the central role of primary care as agents of change in reducing inequalities had been the subject of much debate yet could do little in the face of political avoidance of health equity.¹² Primary care had become a mirror on inequalities but also subject to significant pressures from these growing inequalities that had put practices in deprived populations under significant stress. Yet despite this, equity-oriented primary care reform in England in the mid-to-late 2000s may have helped to reduce socio-economic inequality in health.¹³ (box 1)

It is now clear that the UK experience of the pandemic was one of the worst in the world, both in terms of excess mortality (both COVID-19 and non-COVID-19) and the impact of NPI (lockdowns) on both the ability of health services to continue provide care and the impact of messaging (stay at home) on patients' timely presentation for care.¹⁴ However, the overwhelming focus of impact studies on cancer care has been on hospital-based

Box 1 Non-pahamaceutical interventions implemented in England in response to the COVID-19 pandemic

COVID-19 was officially declared a pandemic by the WHO on 11 March 2020, and the Government announced its first full lockdown in England and the wider United Kingdom on 23rd March. In the following months England's NPI were eased, schools reopened in phases, non-essential shops reopened and in August the population were encouraged to eat out. Some restrictions were re-imposed in September and October, on the 5th of November 2020 a second brief national locked lasted until 2nd December. On the 6th of January 2021, a third national lockdown was introduced.⁵³

services, including diagnostics. Given primary care's central role in pathways to diagnosis and integrated cancer care, including survivorship, there has been little insight around how overall changes in consultation rates impacted both routine and 2-week wait referrals as well as how this varied both in terms of site-specific cancers and as a consequence of socioeconomic inequalities. This study aimed to analyse the socioeconomic inequalities in the impact of NPI measures taken in response to COVID-19 on consultations and routine and urgent cancer referrals in primary care and cancer diagnosis in secondary care.

METHODS

Study design, data sources and participants

We perform a population-based cohort study using the following three separate sources.

Primary care data: CPRD Aurum

Primary care electronic health records were obtained from the Clinical Practice Research Datalink Aurum database (henceforth CPRD). We included patient records from 1 January 2016 to 31 January 2021. Prepandemic data were included to establish long-term trends and patterns of seasonality in primary care use and referrals to secondary care. Similar to recent analysis of the COVID-19 pandemic,¹⁵ our analysis focuses on comparing observed levels of activity to the expected following the introduction of NPI in England in March 2020.

CPRD contains anonymised patient primary care data from approximately 7% of the UK population and is broadly representative in terms of age, sex and ethnicity.¹⁶ The patient records include information on consultations, patient demographic information, diagnoses, medication prescriptions and referrals to secondary care.

The period of eligibility for study inclusion starts on the latest of the study start date (1 January 2016) or the patient's registration to their practice. A patient's period of eligibility ends on the earliest of leaving their practice, the end of data collection from their practice or their death. Primary care records from CPRD were linked to the deciled index of multiple deprivation (IMD) from 2015 (https://www.gov.uk/government/statistics/ english-indices-of-deprivation-2015)¹⁷ of each patient's lower layer super output area (geographic areas in England and Wales that are built from groups of contiguous output areas and have been automatically generated to be as consistent in population size as possible, and typically contain from four to six output areas. The minimum population is 1000, and the mean is 1500. For more details visit: (https://www.datadictionary.nhs.uk/ nhs_business_definitions/lower_layer_super_output_ area.html#:~:text=Lower Layer Super Output Areas,statistics in England and Wales). About 500 000 patients were randomly sampled from the CPRD population in England who were eligible for linkage within the defined study period.

Cancer wait time data

Cancer waiting time (CWT) measure performance against the NHS Constitution Standards, recording the number of patients screened, referred to oncology specialists, diagnosed and treated for cancer. These measures are used by local and national organisations to monitor the timely delivery of services to patients, and they are published quarterly by NHS Digital (https://www.england.nhs.uk/ statistics/statistical-work-areas/cancer-waiting-times/).

Cancer diagnosis by socioeconomic status: NCRAS cancer equity data

Data on cancer diagnosis by socioeconomic group were drawn from the Cancer Alliance Data, Evaluation and Anlysis Service (CADEAS) and National Cancer Registry Analysis Service (NCRAS) that have two published data sets,¹⁸ presenting the latest national data on:

- 1. The number of urgent suspected 2-week wait referrals (http://www.ncin.org.uk/view?rid=4346 (accessed on 24 January 2022)).
- 2. First definitive treatments for cancer (http://www.ncin.org.uk/view?rid=4347 (accessed on 24 January 2022)).

These data packs are produced based on the CWT data, with analysis from Hospital Episode Statistics and other sources outlined in their technical notes (further details in online supplemental annex 1).

Study outcomes

Primary care consultations

We define consultations in CPRD data by a set of rules developed based on two variables in the consultations file (https://cprd.com/primary-care) ('EMIS consultation source identifier' and 'Consultation source code identifier') (These variables contain strings that categorise the patient record input and are selected by the staff member completing the record). In line with the approach taken by Carey *et al* 2012 for CPRD Gold data, we use a combination of the consultation code and the category of the record to identify consultations (details in online supplemental annex 2).

Using the observation file in CPRD Aurum, we were also able to identify where patients had influenza vaccinations. We look to exclude influenza vaccines from our analysis on the basis that the programme was expanded in 2020/2021 to achieve maximum uptake (https:// www.england.nhs.uk/wp-content/uploads/2020/05/ Letter_AnnualFlu_2020-21_20200805.pdf). To help with the comparability of consultations in the two periods, we removed primary care appointments that included a influenza vaccine.

Referrals from primary care: routine and urgent cancer

Referrals in CPRD are categorised into routine and 'urgent cancer'. Referrals from the 'referral file' are linked to patients, and no additional data cleaning steps were taken in the analysis of referrals.

First appointment following an urgent referral

The CWT data present monthly counts of patients in England who have been recorded as receiving a first appointment following an urgent referral from primary care. The CWT data record this because the NHS has a 2-week performance target (online supplemental annex 3).

The NCRAS cancer equity data contain monthly counts in England of appointments following an urgent cancer referral broken down by tumour type and by deprivation according to patient's place of residence.

First treatment following a cancer diagnosis

The CWT data present monthly counts of patients in England who have been recorded as receiving a first treatment for a new cancer diagnosis. The CWT data record this because the NHS has a 31-day performance target (online supplemental annex 3).

The NCRAS cancer equity data contain monthly counts in England of first treatments for new cancer broken down by tumour type and by deprivation according to patient's place of residence.

Patient and public involvement

No patients involved.

Data analysis

CPRD and CWT

For both CPRD and CWT, we separate the data into two, before and after the introduction of the first NPI.

Our analysis of CPRD primary care is conducted weekly and split into two periods before and after the introduction of NPI on 23 March 2020 (pre-NPI data are from 3 January 2016 to 21 March 2020, and our post-NPI onset data are from 22 March 2020 to 30 January 2021).

CWT data are reported monthly, our pre-NPI data are therefore from 1 October 2009 to 31 March 2020 and our post-NPI onset period is from 1 April 2020 to 31 January 2021.

We perform a linear regression of consultations, urgent and routine referrals from CPRD data and appointments following an urgent cancer referral and first treatments from CWT data over time to estimate expected values for the post-NPI onset period, based on predicted values from the data pre-NPI. To account for seasonality and time trends, we include months as a categorical variable and time as a continuous variable, the approach taken by Carr et al.¹⁵ In the case of weekly primary care data, we observe large dips in activity in weeks that include bank holidays and include a categorical variable on the basis of the number of bank holidays in each week (in the winter holidays in England there is always 1 week with two bank holidays). Our primary care activity rates are presented per 100000 patient-months (We adjust the weekly rates per active patient in our sample to 100 000 patient-months: weekly rate per registered patient in sample \times 100000 \times (52/12)). When analysing primary care consultation rates by socioeconomics, we adjust for population age. We do so when calculating the consultation rates by IMD quintile and weighting the sample according to the European Standard Population (https://www.causesofdeath.org/docs/standard. pdf).

NCRAS equity data

The analysis presented in the equity data pack compares new instances of first treatments in months during the pandemic (1 April 2020–31 January 2021) compared with the same months in 2019/2020. The analysis includes a 95% CI for the changes, based on rate ratios under an assumption that the population is the same in the pre-COVID-19 baseline and COVID-19 months. This is calculated using the exact method described in Breslow & Day 1987, pp 93-95.¹⁹ The NCRAS equity data pack shows the high levels of heterogeneity in the impact of the COVID-19 pandemic on different tumour locations. The NCRAS data equity pack is different in its count and analysis of 'all tumours' compared with the Cancer Wait Times Data, and this is because the data are slightly different (cleaned and analysed by NCRAS-details in online supplemental annex 1). Results of our analysis with each data set are compared in online supplemental annex 4. Our presentation of these data follows the same method but presents the cumulative difference

for the period from April 2020 to the end of January compared with the previous 12 months.

RESULTS

Overall impact of the pandemic

In the calendar year of 2019, before the COVID-19 pandemic and the associated NPI, there was an average of 39127 primary care consultations per 100000 patientmonths. This equates to 4.70 attended appointments per registered patient or an estimated 266 million appointments in primary care nationally in 2019 (For comparison, the NHS national appointments in primary care in 2019. Found here: https://digital.nhs. uk/data-and-information/publications/statistical/ appointments-in-general-practice/march-2021).

Primary care consultations (figure 1A) dropped rapidly to a low of 26919 consultations per 100000 patientmonths in the week following 29 March 2020, and this was 66.0% lower than the predicted rate. Rates slowly recovered over the next 24 weeks and by 5 September 2020 were up to 99% of the baseline. In total, there were an estimated 19.7 million (95% CI 19.5 to 20.0) fewer primary care consultations in the English NHS during this period. Primary care consultations again fell to below 90% of predicted levels in the third-wave NPI starting on 6 January 2021, and by the end of January 2021 there were a further 6.4 million fewer consultations than expected. Between the start of the first NPI in March 2020 and the end of January 2021, there were an estimated 26.1 million (95% CI 25.7 to 26.5) fewer appointments than expected (table 1A).

In 2019, the average rate of urgent cancer (2-week wait) referral was 314 per 100000 patient-months, equating to an estimated 2.12 million for the NHS in England. Following the first NPI, urgent cancer referrals from primary care (figure 1B) fell to a nadir of 86 per 100000 patient-months by 29 March 2020 (29.7% of the predicted

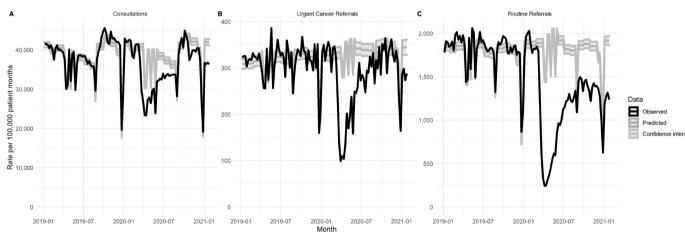


Figure 1 Observed versus expected primary care activity, 1 January 2019–30 January 2021 (per 100 000 patient-months) (Clinical Practice Research Datalink Aurum data). (A) Consultations, (B) urgent cancer (2-week wait) referrals from primary care and (C) routine referrals from primary care.

| | Observed rate | Expected rate | Percentage reduction (95% CI) | Estimated no. missing from England population, to three significant digits (95% CI) |
|--|---------------|---------------|-------------------------------|---|
| Event rate per 100000 patient-m | nonths | - | | - - - - |
| Consultations | 34201 | 38684 | 11.6 (11.4 to 11.7) | 26 100 000 (25 700 000 to 26 500 000) |
| Routine referrals | 1067 | 1812 | 41.1 (40.4 to 41.8) | 4 330 000 (4 210 000 to 4 460 000) |
| Urgent cancer (2-week wait) referrals | 268 | 336 | 20.2 (18.1 to 22.3) | 395 000 (344 000 to 446 000) |

level). Urgent cancer referrals did not return to prepandemic baseline until the week following 23 August 2020 equating to 317000 (95% CI 280000 to 356000) estimated lost urgent cancer referrals over this period. There was a second fall in urgent cancer referrals from primary care in the winter to below 90% of the baseline following the third lockdown (164 referrals per 100000 patientmonths in the week beginning 27 December 2021). This resulted in a further estimated 91705 fewer urgent cancer referrals than expected. Between the start of the first NPI in March 2020 and the end of January 2021, there were 395000 (95% CI 344000 to 446000) fewer urgent cancer referrals than expected (table 1A).

Routine referrals however have shown a different trajectory in that their rates did not recover to prepandemic levels (figure 1C). As a share of predicted levels, routine referrals had the greatest fall, dropping to 16.1% of predicted rates in the week from 19 April 2020. From then to the end of January, the closest it came to predicted levels was 80.3% in the week flowing 13 September 2020. For the 4 weeks in January 2021, it had fallen back down to 60%–70% of predicted rates. In 2019 there were an

average of 1801 routine referrals per 100000 patientmonths from primary care, equivalent to an estimated 12.2 million for the NHS in England. Between the start of the first NPI in March 2020 and the end of January 2021, there were 4.33 million (95% CI 4.21 to 4.46) fewer routine referrals than expected (table 1A).

Patient demographics and patient-time and total numbers of observed consultations and routine and urgent referrals in our CPRD sample are presented in online supplemental annex 5.

Table 1A summarises the missing appointments and referrals for the postpandemic period. Since the start of the pandemic in March we have observed consultations rates that are 11.6% (95% CI 11.4 to 11.7) lower than predicted by previous data. The number of referrals to secondary care per consultation has also fallen, with urgent cancer referrals 20.2% (95% CI 18.1 to 22.3) and routine referrals 41.1% (95% CI 40.4 to 41.8) lower than expected.

The knock-on effect of the reductions in patients' primary care appointments and referrals can be observed in the national CWT data. The number of first

| Table 1B Observed post-COVID-19 cancer diagnostic activity (Cancer Wait Times), 1 April 2020–31 January 2021 | | | | | | |
|--|---------------|---------------|-------------------------------|---|--|--|
| | Observed rate | Expected rate | Percentage reduction (95% CI) | Estimated no. missing from England population, to three significant digits (95% CI) | | |
| Event rate per 100 000 patient- months | | | | | | |
| First consultant appointments following urgent referral from primary care | 296 | 366 | 19.2 (19.1 to 19.3) | 398 000 (395 000 to 401 000) | | |
| Incidence rate per 100000 patient- | months | | | | | |
| First treatments for new cancer from the urgent primary care referral pathway | 21.4 | 25.5 | 16.1 (15.5 to 16.8) | 23 300 (22 200 to 24 400) | | |
| First treatments for new cancer from the national screening pathway | 1.63 | 3.47 | 53.2 (52 to 54.3) | 10 400 (10 000 to 10 900) | | |
| First treatments for new cancer | 39.7 | 47.4 | 16.3 (15.9 to 16.6) | 43 600 (42 500 to 44 700) | | |

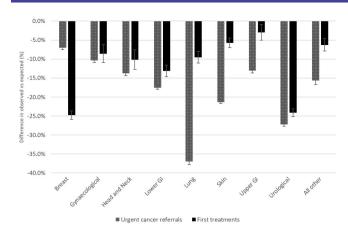


Figure 2 Percentage difference between observed and expected first treatments for new cancer and urgent cancer referrals by tumour location from National Cancer Registry Analysis Service Cancer equity data pack (%, 1 April 2020 to 31 January 2021).

appointments with a cancer specialist following an urgent cancer referral has fallen by approximately the same amount as estimated for the referrals themselves: 19.2% (95% CI 19.1% to 19.3%). The number of cancer first treatments (following a diagnosis and decision to treat) was 16.3% (95% CI 15.9 to 16.6) lower than expected or 43600 (95% CI 42500 to 44 700) missing first treatments from 1 April 2020 to 31 January 2021 (Dates for the CWT and NCRAS analysis do not line up with the CPRD analysis because the latter is conducted weekly, not monthly). (Graphs of observed compared with expected are presented in online supplemental annex 6).

Urgent cancer referrals by site-specific cancer from 1 April 2020 until 31 January 2021 showed significant heterogeneity from moderate reductions in urgent referrals for suspected breast (7.0%; 95% CI 6.6% to 7.5%) and gynaecological cancers (10.3%; 95% CI 9.7% to 10.9%) and greater reductions for lung (36.9%; 95% CI 36.1% to 37.8%) and urological (27.2%; 95% CI 26.7%) to 27.7%) cancers (figure 2, further details in online supplemental annex 4, table A4.1). To show how pathway delays interface with reductions in cancer referrals we also examined reductions in first treatments for the same site-specific cancers over this period (figure 2). Breast and urological cancers observed the greatest reduction in new first treatments: breast fell by 24.8% (95% CI 23.6% to 25.9%) which equates to 10000 missing treatments and urological by 24.1% (95% CI 23.2 to 25.2) which equates to 12100 missing treatments. Taken together, these data reflect substantial delays in both diagnostic and treatment phases of the patient pathway.

Inequalities in cancer diagnosis outcomes in the pandemic

There are inequalities in primary care use in England, with the people who live in the poorest areas have higher rates of consultation than those in richer areas once we adjust for age. The most deprived quintile was expected to have 43184 consultations per 100000 patient-months (table 2), 15% more than the least deprived.

The reduction of consultations over the period 22 March 2020 to 30 January 2021 was smallest for those in most deprived areas. Their reduction in consultations for the non-age-standardised figures was 9.6% (9.2%–9.9%), while for the least deprived the reduction was 12.4% (95% CI 13.2% to 13.9%) (table 2). Weekly levels of age-standardised consultations per 100000 patient-months by IMD quintile are presented in online supplemental annex 7.

Despite a smaller reduction in primary care contacts, we observe the largest reduction in both urgent cancer referrals and first treatments for cancer for patients living in the most deprived areas. The NCRAS data equity pack presents the number of urgent cancer referrals and first cancer treatments by IMD quintile (They do not agestandardise their results.). Figure 3 shows the reduction in urgent cancer referrals and first treatments for newly diagnosed cancer by IMD quintile.

There was a greater percentage reduction in urgent cancer referrals for those living in the most deprived areas in England, who experienced a 17.6% (95% CI 17.2% to 18.0%) reduction between 1 April 2020 and 31 January 2021 compared with the same period 12 months before, while referrals for the least deprived quintile fell by proportionately less: 15.3% (95% CI 14.9% to 15.6%). This equates to a reduction of 61500 referrals for the most deprived and 62600 or the least: without adjusting for age, the most deprived quintile had a smaller proportion of the prepandemic urgent cancer referrals, with 350000 referrals compared with 410000 for the least deprived quintile from April 2019 to January 2020.

At the same time, rates of new treatment for cancer for the people living in the most deprived 20% of England experienced a 15.8% (95% CI 14.6% to 17.0%) reduction between 1 April 2020 and 31 January 2021 compared with the same period 12 months before (6 610 missing first treatments). The reduction for the least deprived was 12.6% (95% CI 11.5% to 13.7%) which equates to 6880 missing first treatments.

Despite having more access to primary care for patients in more deprived areas (9.7% reduction for most deprived compared with 12.5% for the least deprived), urgent cancer referrals and newly diagnosed cancers have been disrupted by the pandemic more for people living in poorer areas.

DISCUSSION

The coronavirus SARS-CoV-2 (COVID-19) pandemic has had a profound impact on the management of patients with cancer.²⁰ The first national lockdown in March 2020 created a ripple of NPIs, including 'stay at home' orders, diminished healthcare service provision and redistribution of healthcare to COVID-19-related care that has had a profound impact on cancer services.¹²¹

| Table 2 Observed post-COVID-19 primary care activity (CPRD Aurum) by IMD quintile, actual and age-standardised | | | | | | | |
|--|-----------------|------------------|-------------------------------|--|--|--|--|
| | 22 March 2020-3 | 0 January 2021 (| weekly) | | | | |
| | Observed rate | Expected rate | Percentage reduction (95% CI) | | | | |
| Consultations per 100 000 patient-months | | | | | | | |
| IMD quintile-1 (least deprived) | 33813 | 38601 | 12.4 (12.1 to 12.7) | | | | |
| IMD quintile—2 | 34 169 | 38793 | 11.9 (11.6 to 12.3) | | | | |
| IMD quintile—3 | 35 069 | 40127 | 12.6 (12.3 to 12.9) | | | | |
| IMD quintile—4 | 33 4 9 4 | 37793 | 11.4 (11 to 11.7) | | | | |
| IMD quintile—5 (most deprived) | 34561 | 38212 | 9.6 (9.2 to 9.9) | | | | |
| Consultations per 100000 patient-months (age-standa | ardised*) | | | | | | |
| IMD quintile-1 (least deprived) | 32927 | 37636 | 12.5 (12.2 to 12.8) | | | | |
| IMD quintile—2 | 33916 | 38647 | 12.2 (11.9 to 12.6) | | | | |
| IMD quintile—3 | 35 535 | 40870 | 13.1 (12.7 to 13.4) | | | | |
| IMD quintile—4 | 36271 | 41 1 48 | 11.9 (11.5 to 12.2) | | | | |
| IMD quintile—5 (most deprived) | 38997 | 43184 | 9.7 (9.4 to 10) | | | | |

*Age standardisation is performed according to the European Standard Population.

CPRD, Clinical Practice Research Datalink; IMD, index of multiple deprivation.

There are also new potential barriers to the pathway that have resulted and may exacerbate these findings. For example, decreases in health-seeking behaviour due to the fear of acquiring COVID-19 infection through interactions with healthcare settings, increasing the use of remote consultations,²² changes in routine referral guide-lines,²³ as well as changes in the capacity of acute care. The backlog for routine diagnostic services is a particular concern given that approximately 40% of cancer are diagnosed through this route.²⁴

Similar issues have also been identified within the health systems of other high-income countries. Primary care providers in eight European countries experienced similar issues in how to rapidly transform services in the wake to COVID-19.²⁵ A study in Sweden found an almost identical percentage reduction in primary care consultations (12%) as a result of the pandemic,²⁶ in Norway there was a 24% reduction in cancer referrals,²⁷ the

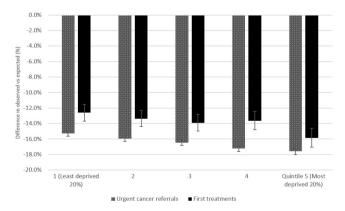


Figure 3 Percentage difference between observed and expected urgent cancer referrals and first treatments for cancer by index of multiple deprivation quintile (1 April 2020–31 January 2021).

Netherlands had a 26% reduction in non-skin cancer diagnoses²⁸ and in Belgium there was a 44% reduction in diagnosis of invasive tumours in the first wave of the pandemic.²⁹ Our results do not appear to be unique to England: while different countries can have different routes to diagnosis,³⁰ many countries also observed disruptions to cancer pathways.^{31–34}

While it was already known that there had been a substantial reduction in the number of overall cancerrelated referrals,^{35 36} the quantification of this had been missing. Our findings, that primary care consultations in English NHS fell by 12.4% between January 2020 and January 2021 with urgent cancer referrals even more suppressed (20.2%), reflect how profound the pathway disruptions were for patients with cancer. Furthermore, many cancers are picked up through the course of routine referrals from general practice for non-specific symptoms. The drop in routine referrals that we found (4.3 million, over this period) will inevitably translate into late-stage presentation and a substantial reduction in outcomes. This will include wider economic costs due to more expensive, late-stage treatment and productivity losses due to morbidity and premature mortality. However, the trajectory of the declines reflect not just changes to national policy in terms of NPI but also knock-on effects around public behaviour, primary care staffing, downstream reductions in diagnostics and an overall increase in friction across all cancer pathways and systems.

This reduction in cancer pathways through primary care needs to be put in the context of wider disruptions. The suspension of national cancer screening programmes meant that around 2million people were not screened for cancer through national programmes.^{37 38} Moreover, delays in cancer diagnoses and treatments have consistently been associated with poorer outcomes.^{1 2}

The COVID-19 pandemic has also exacerbated the worst 62-day CWT targets in the last decade where one of four patients urgently referred from primary care between April 2020 and January 2021 did not receive treatment within 62 days.³⁶

In our analysis of urgent cancer referrals by site in relation to reductions seen in first treatments, significant differences were seen, which is also reflected in the international evidence. Urological cancers (testis, renal, prostate and urothelial) have been particularly impacted with greater than 25% decrease both in urgent referrals and first treatments. This suggests that outcomes will be particularly impacted in this group. Lung, skin and lower gastrointestinal (colon and rectal) cancer also experienced significant declines in urgent referrals; in the Netherlands, there was a 60% reduction in skin cancer diagnosis during the first wave.²⁸

Breast cancer was the least impacted of all in terms of urgent referrals but experienced a 25% reduction in first treatments. This highlights how much breast cancer diagnosis relies on screening programmes which have suffered badly as a result of the pandemic in England³⁶ and internationally.³⁹ In England, head and neck cancers (HNC) saw a 10.2% (95% CI 7.6% to 12.7%) reduction in diagnosis, while studies in other geographies showed wide differences in the measures' impact of the pandemic on HNC: a study in Ontario, Canada, found no evidence of a reduction in HNC diagnosis following an initial drop in the 6 weeks following lockdown,⁴⁰ a clinic in Italy had just a 3.7% reduction in HNC,⁴¹ a 14% reduction in Belgium,²⁹ a clinic in California showed a 22% reduction⁴² and a Cancer Centre in the North of England reported a 33% reduction in HNC cases.⁴³ There is further international evidence of the impact of COVID-19 on interventions down the pathway, with reductions in radical cancer surgeries in two major cancer hubs in England and Italy.⁴⁴

Differences in systems, populations and NPI from the pandemic present high levels of complexity in tackling the recovery at both national and local levels. Although it is possible that, in many countries, some patients with cancer have already been 'lost' to the system, that is, died of COVID-19 or other non-COVID-19 comorbidities, a significant number will now present with later stage disease, creating further pressure on acute cancer care.

Our findings also reflect socioeconomic inequalities, with more profound decrease in urgent cancer referrals and first treatments for the most deprived populations despite relatively better preservation of consultation rates. This is unexpected and extremely worrying, indicating greater disruption to the diagnostic pathway for patients living in more deprived areas, whose cancer outcomes were typically worse than their less deprived counterparts prepandemic.^{45 46} Resilience in primary care is the key for cancer diagnosis pathway and must be developed. We know that there are challenges associated with resourcing health services in poorer areas (the inverse care law⁴⁷), resulting in fewer resources per head of sick patient¹⁰ and shorter consultation times.⁴⁸ Further research

should focus on understanding to what extent complex morbidity, which is greater in poorer areas,^{8 49} contributes to the disruption of the cancer diagnostic pathway. Greater understanding would help health systems better prepare for the kind of disruption we have seen as a result of COVID-19.

Limitations

This study uses multiple data sets to analyse a complex and disjointed pathway. We include a primary care data set that uses a relatively small (500 000) patient sample. However, the CPRD data produce results that closely mirror the rates of consultation per patient (and their reduction) produced in NHS Digital's appointments data.⁵⁰ In addition, the estimated reduction in urgent cancer referrals is close to those presented in the NCRAS's analysis of their cancer registry data (tables 1A and 1B). It is not yet possible to link these data on a patient basis due to delays in data access and once possible further research would be illuminating.

CONCLUSIONS

Our data reflect a disruption to a complex interaction of several systemic issues that place a great deal of impetus on the role of primary care in ensuring early diagnosis of cancer. Primary care was already under strain prepandemic, with low levels of investment and workforce deficits.⁵¹ Particularly in areas of high deprivation, general practice is underfunded and under staffed relative to need.⁷⁸¹⁰

Early cancer diagnosis requires concordance of each participant and mechanism—including patients' awareness and ability to present with cancer symptoms, the ability of GPs to detect and urgently refer possible cancer cases and sufficient diagnostic capacity (in terms of both workforce and equipment) to enable swift referrals and minimise delays to diagnosis and treatment. Every one of these nodes on the pathway to early diagnosis has been affected by the pandemic and the national policy response. However, further work is required as there is currently little understanding and even less evidence about how much each disruption is ultimately impacting cancer pathways.

The impact of the pandemic on cancer diagnosis and time to treatment shown here is very serious. However, what is more concerning is the unequal and inequitable impact on those worst off. Cancer as a disease area 'magnifies what we know to be true about the totality of the health care system. It exposes all its strengths and weaknesses'.⁵² Our results further evidence the strain on primary care, the presence of the inverse care law⁴⁷ and the dire need to address the inequalities so sharply brought into focus by the pandemic. We need to address the disconnect between the importance we place on the role of primary care in cancer care and the resources we devote to it.

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Contributors TW, RS and AA designed the study. Data acquisition, cleaning and analysis was conducted by TW on the Health Foundation's secure date environment. TW wrote the manuscript in the first instance. TW, RS and AA interpreted the data and substantially reviewed the draft manuscript. All authors approved the final version of the manuscript. TW and RS are the guarantors.

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Patient consent for publication Not required.

Ethics approval CPRD collect data for research use. We did not require ethical approval; however, scientific approval for this study was given by the CPRD Independent Scientific Advisory Committee (20_143).

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data are available in a public, open access repository. Data may be obtained from a third party and are not publicly available. The primary care activity data may be obtained from a third party and are not publicly available. We used deidentified primary care data from the Clinical Practice Research Datalink (CPRD). For more information, please visit: https://www.cprd.com/Data-access, and enquiries can be emailed to enquiries@cprd.gov.uk. Scientific approval for this study was given by the CPRD Independent Scientific Advisory Committee (ISAC). The study was approved by the ISAC for CPRD research (20_143). The data are provided by patients and collected by the NHS as part of their care and support. Other data sources are available in a public, open access repository: Cancer Wait Times at https://www.england.nhs.uk/statistics/statistical-work-areas/cancer-waiting-times/ and the NCRAS Cancer data equity pack is available at http://www.ncin.org.uk/local_cancer_intelligence/cadeas.

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Annex 1: NCRAS data equity pack, technical notes

CADEAS and NCRAS have produced two equity data packs presenting the latest national data on the number of urgent suspected two-week wait referrals and first definitive treatments for cancer. These data packs are produced on the basis of the Cancer Wait Times data, with analysis from Hospital Episode Statistics (HES) and other sources outlined in their technical notes.

"Any differences between treatment volumes in the published official statistics and the volumes presented in this pack are because:

- Data was extracted from the CWT system at a slightly different time.
- Data included here is based on England residents only.

Additional logic has been applied to remove treatments where some of the information required for this equity analysis is missing or there are potential data quality issues, for example cases with a mismatch between the suspected cancer referral type and sex (eg. gynaecological cancer treatments for men, testicular cancer treatments for women), and suspected cancer referral type and age (eg. suspected children's cancer for patients aged 20 and over)." – NCRAS Cancer data equity pack technical notes, final tab within the downloaded spreadsheet. Available under "Links to data": http://www.ncin.org.uk/local_cancer_intelligence/cadeas as at 26/01/2022

Annex 2: Consultation definition

CPRD Aurum data dictionary sets out the structure of the data. Within the consultation file there are two variables one can use to identify whether a primary care contact, rather than an administrative note ("EMIS[®] consultation source identifier" and "Consultation source code identifier").

The EMIS consultation source identifier is the primary variable used. We include the following observations of this variable:

Acute visit, Casualty attendance, Clinic, Emergency appointment, Emergency consultation, Enterprise consultation, Face to face consultation, Follow-up/routine visit, Gp surgery, Home visit, Home visit note, Main surgery, Nursing home, Nursing home visit note, Online services message, Other, Residential home, Residential home visit note, Same day appointment, Surgery consultation, Telephone encounter, Urgent consultation, Walk-in centre, Walk-in clinic

We also include instances where EMIS consultation source identifier is "awaiting review" and the Consultation source code identifier is in the following list:

Consultation, visit, seen in gp unit, seen in private clinic, seen in rapid access clinic at gp surgery, seen in urgent care centre, online communication.

We then further exclude records on the basis of the category of staff responsible for the record. The "Job category" variable from the staff file, linked by the consultation id is used. We only include as a consultation records filled out by GPs, doctors, nurses and other health care professionals as defined in CPRD's numerical codes listed below:

GP - 4, 5, 15, 24, 31, 181, 183

Dr – 1, 41, 91, 116, 119, 121, 126, 173, 177, 197

Nurse – 8, 9, 27, 33, 47, 48, 50, 55, 59, 60, 61, 111

Other healthcare professional - 2, 3, 6, 7, 10:14, 16, 17, 34:37, 42, 43, 52, 54, 58, 62:65, 68, 72, 73, 77, 80, 82, 83, 86:89, 94, 95, 97, 100:102, 105, 106, 112:114, 118, 122, 125, 127, 131, 135, 136, 138, 141, 142, 145, 148, 149, 154, 156, 158, 168, 185, 186, 188, 189, 204, 208

In Table A2.1 we present the CPRD Aurum Staff Category list.

In Table A2.2 we present the total number of consultations identified from 01 January 2016 to 31 January 2021, the count with each combination of staff category, "EMIS® consultation source identifier" and "Consultation source code identifier" in Table A2.2 we show the count of records that were excluded, highlighting those that were excluded on the basis of staff category, not the consultation file description variables.

Table A2.1: CPRD Aurum Staff Job Categories

1 Consultant 2 Hospital Practitioner **3** Clinical Medical Officer **4** General Medical Practitioner **5** Salaried General Practitioner 6 Midwife - Sister/Charge Nurse 7 Midwife 8 Community Practitioner 9 Community Nurse 10 Chiropodist/Podiatrist 11 Dietitian 12 Pharmacist 13 Clinical Psychologist 14 Health Care Support Worker 15 Associate Practitioner - General Practitioner 16 Counsellor 17 Phlebotomist 18 Clerical Worker 19 Manager 20 Analyst 21 System Administrator 22 Desktop Support Administrator 23 System Worker 24 GP Registrar 25 Medical Student 26 Other Community Health Service - Admin Clerk 27 Specialist Nurse Practitioner 28 Receptionist 29 Secretary 30 Medical Secretary 31 Sessional GP 32 Clinical Application Administrator 33 Nurse Consultant 34 Physiotherapist **35 Specialist Practitioner** 36 Healthcare Assistant 37 Medical Technical Officer - Pharmacy 38 Health Records Administrator 39 Helpdesk Administrator 40 Appointments Clerk 41 Senior House Officer 42 Social Worker 43 Trainee Practitioner 44 Network Technician 45 Clinical Coder 46 Medical Records Clerk 47 Staff Nurse 48 Enrolled Nurse 49 Multi Therapist

50 Nursery Nurse

51 Helper/Assistant 52 Community Mental Health Nurse 53 Senior Administrator 54 Technician - Healthcare Scientists 55 Associate Practitioner - Nurse 56 Senior Manager 57 Community Administrator 58 Associate Specialist 59 Student Practice Nurse 60 Nurse Manager 61 Sister/Charge Nurse 62 Psychotherapist 63 Osteopath 64 Social Care Support Worker 65 Assistant Psychologist 66 Officer 67 Technician - Admin & Clerical 68 Psychiatrist 69 Health Records Clerk 70 Desktop Support Technician 71 Dispenser 72 Clinical Assistant 73 Practitioner 74 Information Officer 75 Network Administrator 76 Chaplain 77 Student Physiotherapist 78 Paramedic Specialist Practitioner 79 Clinical Team Manager 80 Physiotherapist Specialist Practitioner 81 Helpdesk Technician 82 Radiographer 83 Other Community Health Service 84 Call Operator 85 Community Worker (children) 86 Paramedic Consultant 87 Associate Practitioner 88 Modern Matron 89 Asst. Clinical Medical Officer 90 Community Team Manager 91 Specialist Registrar 92 Chiropodist/Podiatrist Manager 93 Radiographer - Therapeutic, Manager 94 Optometrist 95 Assistant Practitioner 96 Community Learning Disabilities Nurse 97 Technician - Additional Clinical Services 98 Student Health Visitor 99 Interpreter 100 Medical Technical Officer

101 Midwife - Specialist Practitioner 102 Occupational Therapist 103 Chief Executive 104 Audit Manager 105 Paramedic 106 Physiotherapist Consultant 107 Availability Monitor 108 Medical Laboratory Assistant 109 Gateway Worker 110 Medical Records Manager 111 Student Nurse - Adult Branch 112 Audiologist 113 Radiographer - Diagnostic 114 Therapist 115 Student District Nurse 116 House Officer - Post Registration 117 Speech & Language Therapist **118 Dietitian Specialist Practitioner** 119 Trust Grade Doctor - SHO level 120 Director of Public Health 121 Staff Grade 122 Patient Welfare Officer 123 Occupational Therapy Specialist Practitioner 124 Technician - PS&T 125 Chiropodist/Podiatrist Consultant 126 Trust Grade Doctor - Career Grade level 127 Student Community Practitioner 128 Healthcare Scientist 129 Waiting List Clerk 130 Clinical Director 131 Pre-reg Pharmacist 132 Mental Health Act Administrator 133 Ward Clerk 134 Support, Time, Recovery Worker 135 Art Therapist Specialist Practitioner 136 Physiotherapist Manager 137 Healthcare Cadet 138 Dietitian Consultant 139 Orthoptist Manager 140 Social work assistant (mental health) 141 Chiropodist/Podiatrist Specialist Practitioner 142 Student Technician 143 Complaints Investigator 144 Trainee Scientist 145 Radiographer - Diagnostic, Manager 146 Social services care manager (mental health) 147 Dietitian Manager 148 Midwife - Consultant 149 Art Therapist Consultant 150 Paramedic Manager 201 Healthcare Science Assistant 202 Social work assistant (adults) 203 Social work team manager (adults)

151 Finance Director 152 Senior social worker (adults) 153 Student Midwife 154 Radiologist 155 Ward Manager 156 Midwife - Manager 157 Waiting List Manager 158 Radiographer - Diagnostic, Specialist Practitioner **159 Biomedical Scientist** 160 Board Level Director 161 Non Executive Director 162 Nursing Cadet 163 Porter 164 Social services care manager (adults) 165 Student Psychotherapist 166 Orthoptist 167 Clinical Director - Medical 168 Approved Social Worker 169 Student Community Mental Health Nurse 170 Other Executive Director 171 Student Orthoptist 172 Childcare Co-ordinator 173 House Officer - Pre Registration 174 SODP 175 Outpatient Manager 176 Medical Director 177 Trust Grade Doctor - Specialist Registrar level 178 Senior Clinical Medical Officer 179 Consultant Healthcare Scientist 180 Reporting Radiographer 181 Locum GP 182 Researcher 183 Assistant GP 184 Special salary scale in Public Health Medicine 185 Advanced Practitioner 186 Health Visitor 187 Dental Assistant Clinical Director 188 Other Community Health Service - Social Care Worker 189 Physician Assistant 190 Deputising Doctor 191 Student Occupational Health Nurse 192 Senior social worker (mental health) 193 Regional Dental Officer 194 Trainer 195 Cytoscreener 196 Chair 197 Trust Grade Doctor - House Officer level 198 Art Therapist 199 Multi Therapist Specialist Practitioner 200 Drama Therapist

- 204 Intermediate Care worker
- 205 Student Occupational Therapist
- 206 Student Dietitian
- 207 Healthcare Science Associate
- 208 Child Protection worker
- 209 Professor
- 210 General Dental Practitioner
- 211 Student School Nurse
- 212 Occupational Therapist Consultant
- 213 Intermediate Care staff
- 214 Home help
- 215 Art, Music & Drama Student
- 216 Specialist Healthcare Scientist
- 217 Social Services information manager

Table A2.2: Number of observations by EMIS[®] consultation source identifier, Consultation source code identifier and Staff Job Category, with an indicator for whether it was included as a consultation: Include: 1 = Include, 0 = Exclude, "Excl. job title" = Excluded on the basis of job title.

| Include | Staff Job Category | Consultation source code identifier | EMIS consultation source identifier | Count |
|---------|------------------------|-------------------------------------|-------------------------------------|-----------|
| 1 | gp | gp surgery | gp surgery | 3,119,080 |
| 1 | nurse | gp surgery | gp surgery | 1,692,606 |
| 1 | gp | telephone consultation | telephone consultation | 1,471,946 |
| 1 | other care provider | gp surgery | gp surgery | 977,067 |
| 1 | nurse | telephone consultation | telephone consultation | 196,665 |
| 1 | gp | telephone call to a patient | telephone call to a patient | 108,025 |
| 1 | gp | home visit note | home visit note | 83,600 |
| 1 | other care provider | telephone consultation | telephone consultation | 81,980 |
| 1 | nurse | telephone call to a patient | telephone call to a patient | 32,423 |
| 1 | gp | face to face consultation | face to face consultation | 25,435 |
| 1 | nurse | home visit note | home visit note | 24,174 |
| 1 | other care provider | telephone call to a patient | telephone call to a patient | 23,194 |
| 1 | gp | gp surgery | surgery consultation | 22,756 |

| 1 | gp | nursing home visit note | nursing home visit note | 21,357 |
|---|------------------------|--|---|--------|
| 1 | nurse | face to face consultation | face to face consultation | 17,580 |
| 1 | gp | enterprise consultation | enterprise consultation | 14,904 |
| 1 | gp | telephone call from a patient | telephone call from a patient | 13,062 |
| 1 | gp | routine consultation | surgery consultation | 11,668 |
| | other care | | | |
| 1 | provider | home visit note | home visit note | 10,853 |
| 1 | an | provision of general practitioner intermediate care | an curaon/ | 10.441 |
| 1 | gp | | gp surgery | 10,441 |
| | gp | emergency consultation | emergency consultation residential home visit note | 10,351 |
| 1 | gp other care | residential home visit note | residential nome visit note | 9,579 |
| 1 | provider | face to face consultation | face to face consultation | 9,350 |
| 1 | gp | emergency appointment | emergency appointment | 8,687 |
| 1 | gp | urgent consultation | urgent consultation | 8,155 |
| 1 | gp | walk-in clinic | walk-in clinic | 7,908 |
| 1 | dr | gp surgery | gp surgery | 7,654 |
| 1 | | other note | other | 7,520 |
| 1 | gp | face to face consultation | | 6,932 |
| 1 | gp | | surgery consultation | |
| | nurse | gp surgery | surgery consultation | 5,318 |
| 1 | gp | seen in gp unit | surgery consultation | 4,687 |
| 1 | gp | consultation via video conference | awaiting review | 4,653 |
| 1 | nurse | enterprise consultation | enterprise consultation | 4,460 |
| 1 | other care provider | provision of general practitioner intermediate care | gp surgery | 4,369 |
| 1 | gp | clinic note | surgery consultation | 3,823 |
| 1 | nurse | residential home visit note | residential home visit note | 3,612 |
| 1 | nurse | clinic note | clinic | 3,585 |
| 1 | nurse | nursing home visit note | nursing home visit note | 3,528 |
| 1 | nurse | face to face consultation | surgery consultation | 3,442 |
| 1 | | online communication | awaiting review | 3,410 |
| 1 | gp other care | | awaiting review | 3,410 |
| 1 | provider | other note | other | 3,406 |
| | other care | | | |
| 1 | provider | seen in gp unit | gp surgery | 2,781 |
| 1 | gp | e-mail consultation | awaiting review | 2,523 |
| 1 | nurse | other note | other | 2,449 |
| | other care | | | |
| 1 | provider | gp surgery | surgery consultation | 2,334 |
| 1 | other care provider | enterprise consultation | enterprise consultation | 2,318 |
| 1 | other care | | | 2,510 |
| 1 | provider | telephone call from a patient | telephone call from a patient | 2,211 |
| 1 | nurse | telephone call from a patient | telephone call from a patient | 2,183 |
| 1 | gp | routine consultation | awaiting review | 2,117 |
| 1 | nurse | emergency appointment | emergency appointment | 2,041 |
| 1 | gp | home visit note | home visit | 2,021 |
| 1 | gp | seen in gp unit | gp surgery | 1,896 |
| | or | provision of general practitioner | or 90.00.1 | 1,000 |
| | nurse | intermediate care | gp surgery | 1,762 |

| 1 | other care provider | clinic note | clinic | 1,699 |
|---|------------------------|-----------------------------------|-----------------------------|-------|
| 1 | nurse | clinic note | surgery consultation | 1,628 |
| 1 | gp | clinic note | clinic | 1,623 |
| 1 | nurse | routine consultation | surgery consultation | 1,578 |
| 1 | nurse | seen in gp unit | surgery consultation | 1,426 |
| 1 | nurse | walk-in clinic | walk-in clinic | 1,412 |
| 1 | nurse | gp surgery | clinic | 1,355 |
| - | other care | | | 1,555 |
| 1 | provider | routine consultation | other | 1,303 |
| | other care | | | |
| 1 | provider | clinic note | surgery consultation | 1,297 |
| 1 | gp | face to face consultation | emergency consultation | 1,292 |
| 1 | other care provider | walk-in clinic | walk-in clinic | 1,216 |
| 1 | | | | |
| | gp | telephone encounter | telephone encounter | 1,184 |
| 1 | gp | online communication | online services message | 1,139 |
| 1 | gp other care | other consultation medium used | awaiting review | 1,134 |
| 1 | provider | residential home visit note | residential home visit note | 1,113 |
| 1 | nurse | seen in gp unit | gp surgery | 1,103 |
| | other care | | | , |
| 1 | provider | nursing home visit note | nursing home visit note | 1,081 |
| | other care | | | |
| 1 | provider | face to face consultation | surgery consultation | 1,045 |
| 1 | other care provider | seen in gp unit | surgery consultation | 1,043 |
| 1 | nurse | emergency consultation | emergency consultation | 1,043 |
| 1 | | urgent consultation | urgent consultation | 959 |
| 1 | nurse | extended hours consultation | awaiting review | 939 |
| 1 | gp | routine consultation | other | 924 |
| 1 | gp | home visit note | other | 835 |
| | gp | | | |
| 1 | gp other care | gp surgery | face to face consultation | 808 |
| 1 | provider | gp surgery | clinic | 746 |
| | other care | | | |
| 1 | provider | routine consultation | surgery consultation | 738 |
| 1 | gp | consultation via multimedia | awaiting review | 734 |
| | | face to face consultation with | | |
| 1 | gp | relative/carer | awaiting review | 669 |
| 1 | nurse | e-mail consultation | awaiting review | 638 |
| 1 | nurse | routine consultation | awaiting review | 574 |
| 1 | nurse | consultation via video conference | awaiting review | 505 |
| 1 | nurse | routine consultation | other | 478 |
| 1 | other care | online communication | awaiting roview | 473 |
| | provider | same day appointment | awaiting review | 473 |
| 1 | nurse | | same day appointment | |
| 1 | gp | face to face consultation | gp surgery | 461 |
| 1 | gp | same day appointment | same day appointment | 457 |
| 1 | nurse | gp surgery | face to face consultation | 455 |
| 1 | gp | telephone encounter | telephone consultation | 429 |
| 1 | nurse | face to face consultation | emergency consultation | 420 |

| 1 | gp | group consultation | awaiting review | 402 |
|---|------------------------|------------------------------------|-----------------------------|-----|
| 1 | nurse | home visit note | other | 402 |
| 1 | nurse | seen in urgent care centre | awaiting review | 344 |
| 1 | gp | face to face consultation | emergency appointment | 330 |
| 1 | gp | seen in urgent care centre | awaiting review | 322 |
| 1 | nurse | telephone encounter | telephone encounter | 314 |
| | other care | | | |
| 1 | provider | consultation via video conference | awaiting review | 288 |
| 1 | gp | telephone consultation | telephone call to a patient | 287 |
| 1 | dr | telephone consultation | telephone consultation | 279 |
| 1 | nurse | online communication | awaiting review | 279 |
| | other care | | | |
| 1 | provider | face to face consultation | awaiting review | 272 |
| 1 | other care | | | 262 |
| 1 | provider other care | home visit note | home visit | 262 |
| 1 | provider | routine consultation | awaiting review | 260 |
| 1 | nurse | home visit note | home visit | 246 |
| 1 | | consultation via sms text message | awaiting review | 240 |
| T | gp other care | Consultation via sins text message | awaiting review | 244 |
| 1 | provider | online communication | online services message | 241 |
| | other care | | ŭ | |
| 1 | provider | emergency consultation | emergency consultation | 235 |
| | other care | | | |
| 1 | provider | emergency appointment | emergency appointment | 231 |
| 1 | gp | telephone encounter | telephone call to a patient | 226 |
| 1 | gp | residential home visit note | residential home | 225 |
| 1 | gp | face to face consultation | awaiting review | 224 |
| 1 | nurse | face to face consultation | gp surgery | 221 |
| | other care | | | |
| 1 | provider | gp surgery | face to face consultation | 209 |
| 1 | nurse | extended hours consultation | awaiting review | 186 |
| 1 | an | seen in rapid access clinic at gp | awaiting review | 182 |
| 1 | gp | surgery | | |
| 1 | gp other care | school visit note | awaiting review | 181 |
| 1 | provider | telephone consultation | telephone call to a patient | 179 |
| 1 | nurse | face to face consultation | awaiting review | 166 |
| 1 | gp | home visit note | acute visit | 153 |
| 1 | nurse | online communication | online services message | 145 |
| 1 | other care | | Offine services message | 145 |
| 1 | provider | group consultation | awaiting review | 133 |
| 1 | gp | seen in gp unit | awaiting review | 129 |
| 1 | dr | clinic note | surgery consultation | 125 |
| - | other care | | | |
| 1 | provider | telephone encounter | telephone encounter | 119 |
| | other care | | | |
| 1 | provider | extended hours consultation | awaiting review | 116 |
| | | face to face consultation with | | |
| 1 | nurse | relative/carer | awaiting review | 115 |
| 1 | nurse | seen in gp unit | awaiting review | 109 |
| 1 | gp | night visit note | awaiting review | 108 |

| 1 | nurse | school visit note | awaiting review | 107 |
|---|------------------------|--|-------------------------------|-----|
| 1 | nurse | group consultation | awaiting review | 102 |
| 1 | gp | other consultation medium used | other | 99 |
| 1 | gp | children's home visit note | awaiting review | 95 |
| 1 | gp | telephone consultation | telephone call from a patient | 94 |
| 1 | gp | administration note | other | 91 |
| 1 | nurse | telephone encounter | telephone call to a patient | 86 |
| 1 | other care provider | e-mail consultation | awaiting review | 71 |
| 1 | nurse | consultation via multimedia | awaiting review | 65 |
| 1 | gp | gp surgery | clinic | 63 |
| 1 | nurse | telephone consultation | telephone call to a patient | 63 |
| | other care | face to face consultation with | | |
| 1 | provider | relative/carer | awaiting review | 62 |
| | | consultation via telemedicine web | | |
| 1 | gp | camera | awaiting review | 61 |
| 1 | dr | telephone call to a patient | telephone call to a patient | 60 |
| 1 | nurse | laboratory result | clinic | 55 |
| 4 | other care | | | |
| 1 | provider | other consultation medium used | awaiting review | 53 |
| 1 | nurse | other consultation medium used | awaiting review | 5: |
| 1 | nurse | district nurse visit | awaiting review | 48 |
| 1 | gp | clinic note | gp surgery | 4 |
| 1 | other care provider | clinic note | | 4 |
| 1 | other care | | gp surgery | 4. |
| 1 | provider | urgent consultation | urgent consultation | 42 |
| | other care | | | |
| 1 | provider | home visit note | other | 42 |
| | other care | | | |
| 1 | provider | laboratory result | clinic | 40 |
| 1 | gp | laboratory result | acute visit | 39 |
| 1 | dr | home visit note | home visit note | 38 |
| 1 | other care | tolophone encounter | tolophone call to a patient | 2 |
| 1 | provider | telephone encounter | telephone call to a patient | 38 |
| 1 | nurse other care | telephone encounter | telephone consultation | 33 |
| 1 | provider | consultation via sms text message | awaiting review | 28 |
| 1 | gp | walk-in clinic | walk-in centre | 2 |
| 1 | nurse | walk-in clinic | walk-in centre | 2 |
| - | other care | | | |
| 1 | provider | walk-in clinic | clinic | 2 |
| 1 | nurse | children's home visit note | awaiting review | 25 |
| 1 | gp | gp surgery | main surgery | 24 |
| 1 | nurse | residential home visit note | residential home | 22 |
| | other care | | | |
| 1 | provider | seen in urgent care centre | awaiting review | 22 |
| 1 | nurse | night visit note | awaiting review | 20 |
| | other care | | | |
| 1 | provider | children's home visit note | awaiting review | 19 |
| | other care | and a standard standard and the standard standard standard standard standard standard standard standard standard | | |
| 1 | provider | consultation via multimedia | awaiting review | 19 |

| 1 | gp | home visit note | nursing home visit note | 17 |
|-------------|------------------------|--|---|--------------|
| 1 | gp | nursing home visit note | nursing home | 17 |
| 1 | gp | residential home visit note | nursing home | 15 |
| | other care | | | |
| 1 | 1 2 2 2 | face to face consultation | gp surgery | 14 |
| | other care | | | |
| 1 | provider other care | night visit note | awaiting review | 14 |
| 1 | | other consultation medium used | other | 14 |
| 1 | | clinic note | gp surgery | 13 |
| 1 | | walk-in clinic | clinic | 13 |
| 1 | nurse | home visit note | acute visit | 10 |
| 1 | nurse | consultation via sms text message | awaiting review | < 10 |
| 1 | Indisc | consultation via telemedicine web | | < 10 |
| 1 | nurse | camera | awaiting review | < 10 |
| 1 | dr | consultation via video conference | awaiting review | < 10 |
| 1 | dr | nursing home visit note | nursing home visit note | < 10 |
| | other care | | | |
| 1 | provider | home visit note | nursing home visit note | < 10 |
| 1 | dr | other note | other | < 10 |
| 1 | gp | telephone encounter | telephone call from a patient | < 10 |
| 1 | 01 | twilight visit note | awaiting review | < 10 |
| _ | other care | | | |
| 1 | provider | laboratory result | acute visit | < 10 |
| 1 | dr | face to face consultation | face to face consultation | < 10 |
| 1 | 01 | home visit note | follow-up/routine visit | < 10 |
| 1 | | other consultation medium used | casualty attendance | < 10 |
| 1 | other care provider | home visit note | residential home visit note | < 10 |
| | other care | | | < 10 |
| 1 | | other note | gp surgery | < 10 |
| 1 | gp | home visit note | awaiting review | < 10 |
| 1 | gp | non-consultation medication data | awaiting review | < 10 |
| 1 | gp | remote consultation | awaiting review | < 10 |
| 1 | gp | third party consultation | casualty attendance | < 10 |
| 1 | nurse | home visit note | follow-up/routine visit | < 10 |
| 1 | nurse | telephone encounter | telephone call from a patient | < 10 |
| 1 | nurse | third party consultation | casualty attendance | < 10 |
| 1 | dr | enterprise consultation | enterprise consultation | < 10 |
| 1 | dr | telephone call from a patient | telephone call from a patient | < 10 |
| 1 | gp | district nurse visit | awaiting review | < 10 |
| 1 | gp | e-mail received from patient | acute visit | < 10 |
| 1 | gp | hospital outpatient report | casualty attendance | < 10 |
| | gp | joint consultation | awaiting review | < 10 |
| | | | | < 10 |
| 1 | | pharmacy consultation | | |
| 1 | gp | pharmacy consultation telephone call to a patient | awaiting review telephone consultation | |
| 1 | gp gp | telephone call to a patient | telephone consultation | < 10 |
| 1 1 1 | gp gp nurse | telephone call to a patient administration note | telephone consultation other | < 10 < 10 |
| 1 | gp gp nurse | telephone call to a patient | telephone consultation | < 10 |

| othor caro | | | |
|------------|---|---|--|
| | face to face consultation | emergency appointment | < 10 |
| 1 | | | . 10 |
| provider | face to face consultation | emergency consultation | < 10 |
| other care | | | |
| provider | home visit note | acute visit | < 10 |
| other care | | | |
| • | pharmacy consultation | awaiting review | < 10 |
| | residential home visit note | residential home | < 10 |
| | | | < 10 |
| provider | telephone encounter | telephone consultation | < 10 |
| dr | group consultation | awaiting review | < 10 |
| | | | < 10 |
| | | | < 10 |
| | | | < 10 |
| | | | < 10 |
| gh | | | < 10 |
| nurse | | awaiting review | < 10 |
| | | | < 10 |
| | | | < 10 |
| | | | < 10 |
| provider | administration note | other | < 10 |
| other care | | | |
| provider | children's home visit note | clinic | < 10 |
| other care | | | |
| 1 | home visit note | awaiting review | < 10 |
| | twilight visit pata | | - 10 |
| provider | | | < 10 |
| | | | 875,291 |
| | | | 31,332 |
| | | | 29,455 |
| | | | 14,055 |
| | | telephone call to a patient | 13,935 |
| | · · · | | 0.701 |
| | | | 9,791 |
| | | telephone call from a patient | 7,098 |
| | | gp surgery | 6,240 |
| | | | 4,776 |
| | | | 4,248 |
| | gp surgery | surgery consultation | 3,047 |
| | home visit note | other | 2,664 |
| | face to face consultation | face to face consultation | 2,071 |
| | face to face consultation | surgery consultation | 1,177 |
| | online communication | awaiting review | 1,098 |
| | nursing home visit note | nursing home visit note | 708 |
| | routine consultation | surgery consultation | 509 |
| | | awaiting review | 494 |
| | routine consultation | awaiting review | 453 |
| | | | |
| | enterprise consultation | enterprise consultation | 202 |
| | enterprise consultation administration note | enterprise consultation other | <u> </u> |
| | other care provider other care provider other care provider other care provider dr dr dr gp gp gp nurse nurse nurse other care provider other care provider | providerface to face consultationother careface to face consultationproviderhome visit noteother carepharmacy consultationother careresidential home visit noteother careresidential home visit noteother caregroup consultationdrgroup consultationdrhome visit notegpclinic notegpemergency consultationgpbome visit notegpemergency consultationgpseen in rapid access clinic at gpnursetelephone consultationnursetelephone consultationnursetelephone consultationnursetelephone consultationnursetelephone consultationnursetelephone consultationnursetelephone consultationnursetelephone consultationnursetelephone consultationnursetelephone consultationnursegp surgeryother caregp surgeryproviderother notetelephone consultationintermediate careintermediate consultationintermediate careintermediate careintermediate car | providerface to face consultationemergency appointmentother careemergency consultationproviderhome visit noteacute visitacute visitother careproviderproviderpharmacy consultationawaiting reviewother careresidential home visit noteproviderresidential home visit noteother careresidential home visit noteprovidertelephone encounterdrgroup consultationdrgroup consultationdrhome visit notegpclinic notegpclinic notegpemergency consultationgphome visit notegpnursing homesurgeryawaiting reviewnursesurgerynursesurgeryadministration noteotherother careproviderproviderhome visit notenursetelephone consultationtelephone consultationtelephone call from a patientnursetelephone consultationother careproviderproviderhome visit noteother careawaiting reviewproviderhome visit noteother careproviderproviderhome visit noteother careproviderproviderhome visit noteother caregpproviderhome visit noteother caregpproviderhome visit note <trr>other caregp</trr> |

| excl. job cat | home visit note | awaiting review | 371 |
|---------------|----------------------------------|-------------------------------|------|
| excl. job cat | clinic note | clinic | 337 |
| excl. job cat | clinic note | surgery consultation | 329 |
| excl. job cat | residential home visit note | residential home visit note | 327 |
| excl. job cat | face to face consultation | gp surgery | 305 |
| excl. job cat | face to face consultation | awaiting review | 293 |
| excl. job cat | home visit note | home visit | 250 |
| excl. job cat | urgent consultation | urgent consultation | 240 |
| excl. job cat | walk-in clinic | walk-in clinic | 196 |
| excl. job cat | group consultation | awaiting review | 170 |
| excl. job cat | seen in gp unit | surgery consultation | 148 |
| excl. job cat | e-mail consultation | awaiting review | 145 |
| excl. job cat | emergency consultation | emergency consultation | 121 |
| | face to face consultation with | | |
| excl. job cat | relative/carer | awaiting review | 116 |
| excl. job cat | consultation via multimedia | awaiting review | 75 |
| excl. job cat | seen in gp unit | awaiting review | 75 |
| excl. job cat | children's home visit note | awaiting review | 63 |
| excl. job cat | other note | gp surgery | 54 |
| excl. job cat | other consultation medium used | other | 44 |
| excl. job cat | other consultation medium used | awaiting review | 42 |
| excl. job cat | extended hours consultation | awaiting review | 37 |
| excl. job cat | gp surgery | face to face consultation | 36 |
| excl. job cat | emergency appointment | emergency appointment | 35 |
| excl. job cat | gp surgery | clinic | 32 |
| excl. job cat | face to face consultation | emergency consultation | 25 |
| excl. job cat | residential home visit note | residential home | 23 |
| excl. job cat | telephone encounter | telephone call to a patient | 23 |
| excl. job cat | night visit note | awaiting review | 14 |
| excl. job cat | home visit note | acute visit | 13 |
| excl. job cat | walk-in clinic | walk-in centre | 11 |
| excl. job cat | district nurse visit | awaiting review | < 10 |
| excl. job cat | seen in urgent care centre | awaiting review | < 10 |
| excl. job cat | twilight visit note | awaiting review | < 10 |
| excl. job cat | clinic note | gp surgery | < 10 |
| excl. job cat | laboratory result | acute visit | < 10 |
| excl. job cat | telephone consultation | telephone call to a patient | < 10 |
| excl. job cat | walk-in clinic | clinic | < 10 |
| excl. job cat | telephone encounter | telephone call from a patient | < 10 |
| excl. job cat | emergency consultation | casualty attendance | < 10 |
| excl. job cat | pharmacy consultation | awaiting review | < 10 |
| excl. job cat | third party consultation | casualty attendance | < 10 |
| excl. job cat | case conference | gp surgery | < 10 |
| excl. job cat | emergency consultation | awaiting review | < 10 |
| excl. job cat | gp surgery | main surgery | < 10 |
| excl. job cat | home visit note | follow-up/routine visit | < 10 |
| excl. job cat | non-consultation medication data | casualty attendance | < 10 |
| excl. job cat | nursing home visit note | nursing home | < 10 |

| excl. job cat | | remote consultation | awaiting review | < 10 |
|---------------|------------------------|---|--------------------------|-----------|
| excl. job cat | | same day appointment | same day appointment | < 10 |
| excl. job cat | | school visit note | awaiting review | < 10 |
| excl. job cat | | telephone consultation | awaiting review | < 10 |
| excl. job cat | | telephone encounter | telephone consultation | < 10 |
| excl. job cat | | third party consultation | awaiting review | < 10 |
| 0 | gp | externally entered note | externally entered | 3,467,397 |
| 0 | | scanned document | docman | 3,183,782 |
| 0 | | administration note | administration note | 968,767 |
| 0 | | | | 737,843 |
| 0 | | scanned document | scanned document | 727,269 |
| 0 | gp | administration note | administration note | 725,612 |
| 0 | 52 | inbound document | inbound document | 402,64 |
| 0 | | awaiting clinical code migration to | | 402,04 |
| 0 | | emis web | awaiting review | 385,598 |
| 0 | nurse | externally entered note | externally entered | 303,830 |
| 0 | Harse | awaiting clinical code migration to | | 303,03 |
| 0 | gp | emis web | awaiting review | 261,62 |
| 0 | | administration note | administration | 256,604 |
| | other care | | | |
| 0 | provider | scanned document | docman | 255,02 |
| 0 | | externally entered note | externally entered | 252,16 |
| 0 | gp | · · · | | 208,46 |
| 0 | gp | outbound referral | outbound referral | 197,53 |
| 0 | 68 | awaiting clinical code migration to | | 107,00 |
| 0 | gp | emis web | gp surgery | 162,04 |
| | other care | | | |
| 0 | provider | administration note | administration note | 160,91 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | third party consultation | 147,374 |
| 0 | gp | scanned document | scanned document | 145,35 |
| 0 | | awaiting clinical code migration to | | 127.04 |
| 0 | | emis web awaiting clinical code migration to | gp surgery | 127,04 |
| 0 | gp | emis web | results recording | 122,11 |
| 0 | 68 | awaiting clinical code migration to | | 122,11 |
| 0 | | emis web | other | 121,40 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | surgery consultation | 107,304 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | | 104,69 |
| 0 | gp | inbound document | inbound document | 102,53 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web awaiting clinical code migration to | awaiting review | 94,15 |
| 0 | other care provider | emis web | an surgery | 86,39 |
| 0 | other care | awaiting clinical code migration to | gp surgery | 00,390 |
| 0 | provider | emis web | awaiting review | 85,74 |
| 0 | nurse | administration note | administration note | 84,05 |
| 5 | | awaiting clinical code migration to | | 0-,03 |
| 0 | gp | emis web | | 77,58 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | gp surgery | 75,552 |

| 0 | other care provider | | | 66,366 |
|---|------------------------|---|----------------------------------|--------|
| | other care | | | |
| 0 | provider | externally entered note | externally entered | 62,810 |
| 0 | | externally entered note | externally entered note | 61,848 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | repeat issue | 61,683 |
| 0 | nurse | | | 58,019 |
| 0 | gp | telephone triage encounter | telephone triage encounter | 50,662 |
| 0 | | third party consultation | third party consultation | 44,60 |
| | other care | | | |
| 0 | provider | scanned document | scanned document | 38,34 |
| 0 | purco | awaiting clinical code migration to emis web | | 25.27 |
| 0 | nurse | awaiting clinical code migration to | | 35,37 |
| 0 | nurse | emis web | surgery consultation | 27,69 |
| 0 | gp | administration note | administration | 27,39 |
| | 0P | awaiting clinical code migration to | | |
| 0 | gp | emis web | telephone consultation | 26,21 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | other | 26,20 |
| 0 | | awaiting clinical code migration to | | 25.62 |
| 0 | | emis web | scanned document | 25,62 |
| 0 | | awaiting clinical code migration to emis web | administration note | 24,45 |
| 0 | | gp surgery | awaiting review | 24,33 |
| 0 | | awaiting clinical code migration to | | 24,33 |
| 0 | | emis web | touchscreen | 24,31 |
| 0 | gp | third party consultation | third party consultation | 23,95 |
| | 0F | awaiting clinical code migration to | | |
| 0 | | emis web | patientchase insert | 22,51 |
| 0 | gp | laboratory result | results recording | 22,06 |
| 0 | gp | externally entered note | externally entered note | 20,86 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | administration note | 20,72 |
| 0 | other care | the other was | School and development | 20.45 |
| 0 | provider | inbound document | inbound document | 20,15 |
| 0 | gp | telephone call to relative/carer | telephone call to relative/carer | 19,23 |
| 0 | otner care provider | awaiting clinical code migration to emis web | | 17,08 |
| 0 | provider | awaiting clinical code migration to | | 17,08 |
| 0 | | emis web | surgery consultation | 15,97 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | clinic | 15,89 |
| 0 | gp | other note | other note | 15,81 |
| 0 | gp | gp surgery | awaiting review | 15,81 |
| 0 | gp | discussion with colleague | discussion with colleague | 12,97 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | telephone call to a patient | 11,78 |
| 0 | | repeat prescription | repeat issue | 11,54 |
| | other care | | | |
| 0 | provider | administration note | administration | 11,03 |
| 0 | purco | awaiting clinical code migration to | othor | 11.00 |
| 0 | nurse | emis web | other | 11,00 |

| 0 | | hospital outpatient report | hospital outpatient report | 10,033 |
|---|------------------------|---|------------------------------------|--------|
| 0 | nurse | inbound document | inbound document | 9,304 |
| 0 | nurse | scanned document | scanned document | 7,878 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | repeat issue | 7,745 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | outbound referral | 7,402 |
| 0 | other care provider | externally entered note | externally entered note | 6,736 |
| 0 | • | telephone call from relative/carer | telephone call from relative/carer | 6,626 |
| 0 | gp other care | awaiting clinical code migration to | | 0,020 |
| 0 | provider | emis web | surgery consultation | 6,514 |
| | | awaiting clinical code migration to | | - , - |
| 0 | | emis web | inbound document | 6,495 |
| 0 | nurse | gp surgery | awaiting review | 6,475 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | other | 6,315 |
| 0 | nurse | administration note | administration | 6,285 |
| 0 | | outbound referral | outbound referral | 6,194 |
| 0 | nurse | telephone triage encounter | telephone triage encounter | 6,074 |
| 0 | gp | clinic note | clinic note | 5,834 |
| | - OF | awaiting clinical code migration to | | -, |
| 0 | gp | emis web | repeat issue | 5,803 |
| 0 | gp | non-consultation data | non-consultation data | 5,552 |
| | other care | | | |
| 0 | provider | third party consultation | third party consultation | 5,505 |
| _ | other care | | | |
| 0 | provider | gp surgery | awaiting review | 5,332 |
| 0 | an | awaiting clinical code migration to emis web | telephone call from a patient | 5,282 |
| 0 | gp | | | |
| | nurse | externally entered note | externally entered note | 5,251 |
| 0 | gp | face to face consultation | triage | 5,196 |
| 0 | nurse | telephone call to relative/carer | telephone call to relative/carer | 5,193 |
| 0 | | awaiting clinical code migration to emis web | mail to patient | 5,178 |
| 0 | | non-consultation data | non-consultation data | |
| | | | | 4,933 |
| 0 | gp | e-mail received from patient | e-mail received from patient | 4,877 |
| 0 | nurse | outbound referral | outbound referral | 4,787 |
| 0 | | medication requested | repeat issue | 4,639 |
| 0 | nurse | third party consultation | third party consultation | 4,605 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web awaiting clinical code migration to | results recording | 4,405 |
| 0 | gp | emis web | scanned document | 4,384 |
| 0 | 69 | other note | other note | 4,375 |
| 0 | | awaiting clinical code migration to | | 4,575 |
| 0 | | emis web | mjog | 4,222 |
| | other care | | | 1,22. |
| 0 | provider | other note | other note | 4,07 |
| 0 | | mail to patient | mail to patient | 3,924 |
| | other care | awaiting clinical code migration to | · | -, |
| 0 | provider | emis web | clinic | 3,859 |
| 0 | | e-mail received from patient | e-mail received from patient | 3,632 |

| 0 | | awaiting clinical code migration to emis web | out of hours, non practice | 3,607 |
|---|------------------|---|------------------------------------|-------|
| | other care | | | · |
| 0 | provider | clinic note | clinic note | 3,371 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | home visit note | 3,370 |
| 0 | gp | hospital outpatient report | hospital outpatient report | 3,359 |
| 0 | nurse | nurse telephone triage | nurse telephone triage | 3,274 |
| 0 | nurse | clinic note | clinic note | 3,252 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | clinic | 3,24 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | administration note | 3,04 |
| 0 | gn | awaiting clinical code migration to emis web | third party consultation | 3,03 |
| 0 | gp other care | awaiting clinical code migration to | | 3,03 |
| 0 | provider | emis web | medicine management | 2,82 |
| | other care | | | _/ |
| 0 | provider | telephone call to relative/carer | telephone call to relative/carer | 2,80 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | telephone consultation | 2,78 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | clinic | 2,77 |
| 0 | | laboratory result | laboratory result | 2,72 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | inbound document | 2,60 |
| 0 | | telephone call from relative/carer | telephone call from relative/carer | 2,59 |
| 0 | | clinic note | clinic note | 2,57 |
| 0 | gp | laboratory result | laboratory result | 2,51 |
| | other care | | | |
| 0 | provider | repeat prescription | repeat issue | 2,51 |
| 0 | | awaiting clinical code migration to | have afrections | 2.45 |
| 0 | | emis web awaiting clinical code migration to | home of patient | 2,45 |
| 0 | gp | emis web | out of hours, non practice | 2,36 |
| 0 | 58 | awaiting clinical code migration to | | 2,30 |
| 0 | gp | emis web | nhs direct report | 2,33 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | results recording | 2,18 |
| 0 | dr | third party consultation | third party consultation | 2,14 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | third party consultation | 2,09 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | administration note | 2,07 |
| 0 | | administration note | patientchase insert | 1,85 |
| 0 | | clinic note | awaiting review | 1,79 |
| 0 | | hospital inpatient report | hospital inpatient report | 1,76 |
| 0 | | e-mail received from patient | docman | 1,75 |
| 0 | nurse | other note | other note | 1,70 |
| 0 | nurse | non-consultation data | non-consultation data | 1,68 |
| 5 | | awaiting clinical code migration to | | 2,00 |
| 0 | gp | emis web | referral letter | 1,66 |
| | 1 | laboratory result | results recording | 1,62 |

| 0 | | awaiting clinical code migration to emis web | non-consultation data | 1,537 |
|---|------------------|---|------------------------------------|-------|
| 0 | | awaiting clinical code migration to | | 1,557 |
| 0 | gp | emis web | medicine management | 1,510 |
| 0 | nurse | laboratory result | results recording | 1,464 |
| 0 | nurse | telephone call from relative/carer | telephone call from relative/carer | 1,401 |
| 0 | | administration note | scanned document | 1,373 |
| 0 | | telephone triage encounter | telephone triage encounter | 1,353 |
| 0 | gp | medication requested | awaiting review | 1,347 |
| 0 | nurse | discussion with colleague | discussion with colleague | 1,329 |
| 0 | gp | awaiting clinical code migration to emis web | telephone triage encounter | 1,313 |
| 0 | nurse | awaiting clinical code migration to emis web | telephone call to a patient | 1,243 |
| | other care | | | 4.000 |
| 0 | provider | non-consultation data | non-consultation data | 1,239 |
| 0 | gp | case conference | awaiting review | 1,225 |
| 0 | gp | awaiting clinical code migration to emis web | externally entered note | 1,206 |
| 0 | 68 | telephone call to relative/carer | telephone call to relative/carer | 1,191 |
| 0 | nurse | awaiting clinical code migration to emis web | third party consultation | 1,170 |
| 0 | gp | e-mail sent to patient | awaiting review | 1,162 |
| 0 | dr | administration note | administration | 1,159 |
| 0 | u. | other note | | 1,15 |
| 0 | | administration note | | 1,130 |
| 0 | dr | externally entered note | externally entered | 1,113 |
| 0 | u | awaiting clinical code migration to | | 1,113 |
| 0 | gp | emis web | face to face consultation | 1,112 |
| | other care | | | |
| 0 | provider | telephone triage encounter | telephone triage encounter | 1,107 |
| 0 | nurse | laboratory result | laboratory result | 1,064 |
| | other care | | | 4.057 |
| 0 | provider | outbound referral | outbound referral | 1,052 |
| 0 | gp other care | clinic note | awaiting review | 1,030 |
| 0 | provider | mail to patient | patientchase insert | 1,019 |
| 0 | gp | repeat prescription | awaiting review | 1,003 |
| 0 | 68 | awaiting clinical code migration to | | 1,000 |
| 0 | gp | emis web | data transferred from other system | 983 |
| 0 | | awaiting clinical code migration to emis web | non-consultation medication data | 980 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | nursing home visit note | 97: |
| 0 | gp | repeat prescription | repeat issue | 964 |
| 0 | | awaiting clinical code migration to emis web | telephone call to a patient | 903 |
| 0 | dr | | | 88! |
| 0 | | awaiting clinical code migration to | | 00: |
| 0 | nurse | emis web | face to face consultation | 853 |
| | other care | | | |
| 0 | provider | hospital outpatient report | hospital outpatient report | 828 |
| 0 | | clinic note | community clinic | 823 |

| 0 | | awaiting clinical code migration to emis web | gp2gp import | 82 |
|---|------------------------|---|--------------------------------------|----|
| | | awaiting clinical code migration to | | |
| 0 | | emis web | letter from outpatients | 80 |
| | other care | | | |
| 0 | provider | mail to patient | mail to patient | 80 |
| 0 | other care | tologhous call from valative (course | tologhous call from polative (source | 70 |
| 0 | provider | telephone call from relative/carer | telephone call from relative/carer | 78 |
| 0 | | awaiting clinical code migration to emis web | externally entered note | 76 |
| 0 | | awaiting clinical code migration to | | /0 |
| 0 | | emis web | referral letter | 75 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | inbound document | 71 |
| 0 | | e-mail sent to patient | awaiting review | 71 |
| 0 | gp | hospital inpatient report | hospital inpatient report | 71 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | repeat issue | 69 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | acute visit | 69 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | telephone call to relative/carer | 68 |
| 0 | | non-consultation medication data | repeat issue | 67 |
| | | awaiting clinical code migration to | | c- |
| 0 | nurse | emis web | home visit note | 67 |
| 0 | other care provider | discussion with colleague | discussion with colleague | 66 |
| | provider | - | | |
| 0 | | administration note | docman | 66 |
| 0 | gp | other note | | 66 |
| 0 | | awaiting clinical code migration to emis web | telephone consultation | 65 |
| 0 | other care | awaiting clinical code migration to | | 0. |
| 0 | provider | emis web | scanned document | 64 |
| 0 | | ooh report | third party consultation | 63 |
| 0 | gp | scanned document | externally entered | 61 |
| 0 | | medication requested | | 60 |
| 0 | gp | awaiting clinical code migration to | repeat issue | 00 |
| 0 | nurse | emis web | telephone triage encounter | 60 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | telephone call to a patient | 54 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | face to face consultation | 53 |
| 0 | dr | administration note | administration note | 52 |
| 0 | gp | discussion with other professional | awaiting review | 51 |
| 0 | gp | administration note | awaiting review | 50 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | mail to patient | 50 |
| 0 | | ooh report | awaiting review | 50 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | gp surgery | 50 |
| | | walk-in clinic | | 49 |
| 0 | | | | |
| 0 | | administration note | inbound document | 49 |

| 0 | | awaiting clinical code migration to emis web | telephone call from a patient | 486 |
|---|------------------------|--|------------------------------------|-----|
| 0 | gp | ooh report | out of hours, non practice | 478 |
| 0 | gp | mail from patient | mail from patient | 473 |
| 0 | | other note | awaiting review | 472 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | enterprise consultation | 458 |
| 0 | other care | | | 455 |
| 0 | provider | repeat prescription awaiting clinical code migration to | awaiting review | 455 |
| 0 | gp | emis web | discussion with colleague | 451 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | outbound referral | 450 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | nursing home | 447 |
| 0 | dr | awaiting clinical code migration to emis web | awaiting review | 444 |
| 0 | nurse | e-mail received from patient | e-mail received from patient | 443 |
| 0 | nurse | awaiting clinical code migration to | | 443 |
| 0 | | emis web | data transferred from other system | 442 |
| 0 | nurse | ooh report | awaiting review | 439 |
| 0 | | administration note | awaiting review | 436 |
| - | other care | | | |
| 0 | provider | clinic note | awaiting review | 431 |
| 0 | gp | administration note | | 415 |
| 0 | gp | administration note | scanned document | 414 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | urgent consultation | 404 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web awaiting clinical code migration to | externally entered note | 385 |
| 0 | | emis web | school | 384 |
| 0 | nurse | hospital outpatient report | hospital outpatient report | 380 |
| 0 | liaise | mail to patient | patientchase insert | 377 |
| 0 | | awaiting clinical code migration to | | |
| 0 | | emis web | telephone encounter | 376 |
| 0 | gp | administration note | results recording | 372 |
| 0 | | discussion with colleague | discussion with colleague | 368 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | results recording | 365 |
| 0 | | case conference | awaiting review | 361 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | telephone consultation | 350 |
| 0 | other care provider | awaiting clinical code migration to emis web | patientchase insert | 345 |
| 0 | provider | | | |
| 0 | | sms text message sent to patient | patientchase insert | 345 |
| 0 | nurse | mail to patient | mail to patient | 342 |
| 0 | | awaiting clinical code migration to emis web | hospital outpatient report | 336 |
| 0 | | gp surgery | | 315 |
| 0 | gn | ooh report | nhs direct report | 312 |
| | gp | | | |
| 0 | gp | administration note awaiting clinical code migration to | referral letter | 313 |
| | 1 | amaring ennour couc migration to | 1 | |

| 0 | gp | awaiting clinical code migration to emis web | telephone call from relative/carer | 310 |
|---|------------------------|---|------------------------------------|-----|
| 0 | gp | awaiting clinical code migration to emis web | non-consultation data | 309 |
| 0 | | awaiting clinical code migration to | | 200 |
| 0 | nurse other care | emis web awaiting clinical code migration to | telephone call from a patient | 309 |
| 0 | provider | emis web | non-consultation data | 306 |
| | other care | | | |
| 0 | provider | e-mail received from patient | e-mail received from patient | 292 |
| 0 | other care provider | awaiting clinical code migration to emis web | non-consultation medication data | 289 |
| 0 | nurse | clinic note | awaiting review | 285 |
| 0 | dr | scanned document | scanned document | 285 |
| 0 | u | | | 283 |
| 0 | other care | ooh report | out of hours, non practice | 283 |
| 0 | provider | laboratory result | laboratory result | 282 |
| | protider | awaiting clinical code migration to | | |
| 0 | gp | emis web | discharge details | 281 |
| 0 | | home visit note | home of patient | 277 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | inbound document | 276 |
| | other care | | | |
| 0 | provider | hospital inpatient report | hospital inpatient report | 275 |
| 0 | gp | mail to patient | mail to patient | 270 |
| • | | awaiting clinical code migration to | | 266 |
| 0 | gp other care | emis web | residential home visit note | 266 |
| 0 | provider | administration note | awaiting review | 265 |
| | provider | awaiting clinical code migration to | | |
| 0 | | emis web | acute visit | 263 |
| 0 | | walk-in clinic | awaiting review | 260 |
| 0 | dr | hospital outpatient report | hospital outpatient report | 256 |
| 0 | gp | awaiting clinical code migration to emis web | mail to patient | 249 |
| 0 | | administration note | mjog | 248 |
| 0 | | mail from patient | mail from patient | 248 |
| 0 | an | awaiting clinical code migration to | lattor from outpatients | 247 |
| 0 | gp | emis web awaiting clinical code migration to | letter from outpatients | 247 |
| 0 | | emis web | discharge details | 244 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | mail to patient | 243 |
| 0 | other care | awaiting clinical code migration to | homovisit noto | 226 |
| 0 | provider | emis web | home visit note | 236 |
| 0 | gp | home visit note | results recording | 235 |
| 0 | dr | inbound document awaiting clinical code migration to | inbound document | 234 |
| 0 | gp | emis web | other note | 230 |
| 0 | (m | awaiting clinical code migration to emis web | nationtchase insert | 229 |
| 0 | gp | awaiting clinical code migration to | patientchase insert | 229 |
| 0 | dr | emis web | administration note | 225 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | open door surgery | 222 |

| 0 | | awaiting clinical code migration to | | 222 |
|---|------------------------|--|------------------------------------|-----|
| 0 | | emis web | nhs direct report | 222 |
| 0 | other care provider | awaiting clinical code migration to emis web | touchscreen | 216 |
| 0 | gp | scanned document | docman | 213 |
| 0 | БР | awaiting clinical code migration to | | 215 |
| 0 | nurse | emis web | nursing home visit note | 210 |
| 0 | | administration note | | 210 |
| 0 | nurse | awaiting clinical code migration to | | 209 |
| 0 | nurse | emis web | externally entered note | 209 |
| | | awaiting clinical code migration to | | 200 |
| 0 | | emis web | laboratory result | 199 |
| 0 | | hospital outpatient report | hospital | 197 |
| 0 | other care | | | 107 |
| 0 | provider | non-consultation medication data | repeat issue | 196 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | referral letter | 195 |
| 0 | nurse | e-mail sent to patient | awaiting review | 191 |
| | | awaiting clinical code migration to | | 101 |
| 0 | nurse | emis web | referral letter | 190 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | telephone consultation | 186 |
| 0 | nurse | case conference | awaiting review | 185 |
| 0 | other care | awaiting clinical code migration to | | 100 |
| 0 | provider | emis web | data transferred from other system | 184 |
| | provider | multidisciplinary team meeting | | 101 |
| 0 | gp | without patient | awaiting review | 179 |
| | 08 | awaiting clinical code migration to | | 270 |
| 0 | gp | emis web | clinic note | 176 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | mjog | 175 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | hospital inpatient report | 168 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | home visit note | 164 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | online services message | 163 |
| | other care | | | |
| 0 | provider | administration note | | 162 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | outbound referral | 159 |
| | other care | | | 450 |
| 0 | provider | ooh report | awaiting review | 156 |
| | | awaiting clinical code migration to | | 450 |
| 0 | gp | emis web | non-consultation medication data | 152 |
| 0 | | awaiting clinical code migration to | tolombono collito rolativo (corror | 150 |
| 0 | nurse | emis web | telephone call to relative/carer | 152 |
| 0 | other care provider | other pote | awaiting roviow | 149 |
| 0 | provider | other note awaiting clinical code migration to | awaiting review | 149 |
| 0 | dr | emis web | surgery consultation | 148 |
| 0 | | awaiting clinical code migration to | | 140 |
| 0 | nurse | emis web | scanned document | 146 |
| | | | | |
| 0 | gp | administration note awaiting clinical code migration to | repeat issue | 145 |
| 0 | | emis web | open door surgery | 144 |
| | | | | 144 |

| 0 | other care provider | awaiting clinical code migration to emis web | clinic note | 140 |
|---|------------------------|---|------------------------------------|-----|
| 0 | | inbound referral | awaiting review | 138 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | clinic note | 133 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | face to face consultation | 129 |
| 0 | other care provider | non-consultation medication data | non-consultation medication data | 124 |
| 0 | provider | awaiting clinical code migration to | non-consultation medication data | 124 |
| 0 | nurse | emis web | residential home visit note | 122 |
| - | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | data transferred from other system | 121 |
| | other care | | | |
| 0 | provider | e-mail sent to patient | awaiting review | 121 |
| 0 | gp | administration note | outbound referral | 118 |
| 0 | nurse | other note | | 117 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | nurse telephone triage | 116 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | accident & emergency | 116 |
| 0 | gp | other consultation medium used | data transferred from other system | 109 |
| 0 | | non-consultation medication data | non-consultation medication data | 108 |
| 0 | nurse | face to face consultation | triage | 104 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | acute visit | 102 |
| | | awaiting clinical code migration to | | 100 |
| 0 | nurse | emis web | telephone call from relative/carer | 100 |
| 0 | | extended hours consultation | out of hours, non practice | 100 |
| 0 | nurse | mail from patient | mail from patient | 98 |
| 0 | other care | have the hear the transmission | have the l | 07 |
| 0 | provider | hospital outpatient report awaiting clinical code migration to | hospital | 97 |
| 0 | dr | emis web | nursing home visit note | 96 |
| 0 | | nurse telephone triage | nurse telephone triage | 94 |
| - | | | | |
| 0 | nurse other care | hospital inpatient report | hospital inpatient report | 93 |
| 0 | provider | case conference | awaiting review | 92 |
| 0 | provider | provision of general practitioner | | 52 |
| 0 | gp | intermediate care | awaiting review | 91 |
| 0 | gp | walk-in clinic | | 91 |
| 0 | | hospital outpatient report | letter from outpatients | 91 |
| 0 | other care | | | 51 |
| 0 | provider | other note | | 89 |
| 0 | gp | administration note | other note | 87 |
| - | other care | | | |
| 0 | provider | medication requested | awaiting review | 85 |
| 0 | dr | laboratory result | results recording | 84 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | mail from patient | 84 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | health centre | 80 |
| 0 | gp | administration note | inbound document | 76 |
| | | | | |

| 0 | nurse | walk-in clinic | | 7 |
|---|------------|--|------------------------------------|----------|
| 0 | | other note | non-consultation medication data | 7 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | nhs direct report | 7. |
| 0 | | administration note | repeat issue | 73 |
| 0 | gp | ooh report | awaiting review | 7 |
| 0 | gp | weekly care home ward round | awaiting review | 7 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | medicine management | 70 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | open door surgery | 6 |
| • | other care | awaiting clinical code migration to | | 6 |
| 0 | provider | emis web | telephone encounter | 6 |
| 0 | | medication requested | awaiting review | 6 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | telephone call to relative/carer | 6 |
| • | | awaiting clinical code migration to | | <i>.</i> |
| 0 | dr | emis web | repeat issue | 6 |
| 0 | gp | non-consultation medication data | repeat issue | 6 |
| | other care | awaiting clinical code migration to | | - |
| 0 | provider | emis web | telephone call from a patient | 6 |
| 0 | gp | clinic note | nhs direct report | 6 |
| 0 | gp | non-consultation medication data | medicine management | 6 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | letter from outpatients | 6 |
| 0 | gp | hospital outpatient report | letter from outpatients | 6 |
| 0 | gp | non-consultation data | data transferred from other system | 5 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | enterprise consultation | 5 |
| 0 | gp | outbound referral | referral letter | 5 |
| | other care | | | |
| 0 | provider | repeat prescription | medicine management | 5 |
| 0 | nurse | seen in influenza vaccination clinic | awaiting review | 5 |
| 0 | | administration note | results recording | 5 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | telephone call from relative/carer | 5 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | hospital outpatient report | 5 |
| 0 | gp | gp surgery | | 5 |
| 0 | gp | third party consultation | out of hours, non practice | 5 |
| - | | awaiting clinical code migration to | | - |
| 0 | | emis web | telephone call to relative/carer | 5 |
| 0 | | clinic note | out of hours, non practice | 5 |
| 0 | | face to face consultation | primary care centre | 5 |
| 0 | | awaiting clinical code migration to | | 5 |
| 0 | gp | emis web | laboratory result | 5 |
| | | non-consultation medication data | | |
| 0 | nurse | awaiting clinical code migration to | repeat issue | 4 |
| 0 | | emis web | other note | 4 |
| | | | | |
| 0 | | face to face consultation | triage | 4 |
| 0 | gp | progress report | nhs direct report | 4 |
| - | other care | a characteristic de la construction de la construct | | |
| 0 | provider | ooh report | nhs direct report | 4 |

| 0 | nurse | awaiting clinical code migration to emis web | non-consultation data | 46 |
|---|---------------------|---|--|----|
| | | awaiting clinical code migration to | | |
| 0 | | emis web | nursing home | 46 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | mail from patient | 45 |
| | | awaiting clinical code migration to | | 45 |
| 0 | nurse | emis web | discussion with colleague | 45 |
| 0 | | awaiting clinical code migration to | a mail manaised from matient | 45 |
| 0 | | emis web awaiting clinical code migration to | e-mail received from patient | 45 |
| 0 | nurse | emis web | medicine management | 43 |
| 0 | nurse | medication requested | repeat issue | 42 |
| | | | | |
| 0 | dr | mail to patient | mail to patient | 40 |
| 0 | an | awaiting clinical code migration to emis web | opcompace mossage | 39 |
| | gp | | encompass message | |
| 0 | gp | other note | data transferred from other system | 39 |
| 0 | | awaiting clinical code migration to | | 20 |
| 0 | nurse | emis web | clinic note | 39 |
| 0 | purco | awaiting clinical code migration to emis web | laboratory result | 20 |
| 0 | nurse other care | awaiting clinical code migration to | laboratory result | 39 |
| 0 | provider | emis web | other note | 39 |
| 0 | other care | | | |
| 0 | provider | medication requested | repeat issue | 38 |
| - | 1 | | non-consultation data | |
| 0 | gp other care | administration note | | 37 |
| 0 | provider | mail from patient | mail from patient | 37 |
| 0 | provider | awaiting clinical code migration to | | 57 |
| 0 | dr | emis web | results recording | 36 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | e-mail received from patient | 36 |
| | | awaiting clinical code migration to | · | |
| 0 | nurse | emis web | walk-in centre | 36 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | gp2gp import | 36 |
| 0 | | administration note | mail to patient | 36 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | home of patient | 35 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | casualty attendance | 34 |
| 0 | gp | inbound document | letter from outpatients | 34 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | outbound referral | 34 |
| | other care | | | |
| 0 | provider | extended hours consultation | out of hours, non practice | 34 |
| | | awaiting clinical code migration to | | |
| 0 | gp | emis web | telephone encounter | 33 |
| 0 | gp | seen in hospital ward | awaiting review | 33 |
| 0 | | other note | non-consultation data | 33 |
| 0 | | | | 21 |
| | nurse | other note | awaiting review | 52 |
| 0 | nurse other care | | awaiting review | 52 |
| 0 | | other note awaiting clinical code migration to emis web | awaiting review discussion with colleague | 32 |

| 0 | | multidisciplinary team meeting without patient | awaiting review | 32 |
|---|------------------|---|------------------------------------|----------|
| 0 | | children's home visit note | | 31 |
| | other care | | | |
| 0 | provider | laboratory result | results recording | 30 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | casualty attendance | 30 |
| 0 | | extended hours consultation | nhs direct report | 30 |
| 0 | nurse | administration note | awaiting review | 29 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | letter from outpatients | 29 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | open door surgery | 29 |
| 0 | nurse | discussion with other professional | awaiting review | 29 |
| 0 | nurse | ooh report | out of hours, non practice | 29 |
| 0 | | face to face consultation | treatment room | 29 |
| 0 | gn | email received from carer | awaiting review | 28 |
| 0 | gp other care | awaiting clinical code migration to | | 20 |
| 0 | provider | emis web | telephone triage encounter | 28 |
| 0 | provider | administration note | · · · | 28 |
| 0 | | awaiting clinical code migration to | touchscreen | 20 |
| 0 | nurse | emis web | | 27 |
| 0 | nuise | awaiting clinical code migration to | encompass message | 21 |
| 0 | nurse | emis web | nursing home | 27 |
| 0 | liurse | third party consultation | | 27 |
| 0 | | awaiting clinical code migration to | out of hours, non practice | Ζ. |
| 0 | an | emis web | follow-up/routine visit | 26 |
| 0 | gp other care | | | 20 |
| 0 | provider | emergency consultation | accident & emergency | 26 |
| 0 | | | | 25 |
| 0 | gp other care | hospital outpatient report awaiting clinical code migration to | nhs direct report | Ζ. |
| 0 | provider | emis web | telephone call from relative/carer | 23 |
| 0 | other care | | | 2. |
| 0 | provider | outbound referral | referral letter | 23 |
| 0 | provider | | scanned document | 23 |
| 0 | | externally entered note multidisciplinary team meeting | | 23 |
| 0 | nurse | without patient | awaiting review | 22 |
| | nurse | | | |
| 0 | | other consultation medium used | data transferred from other system | 22 |
| 0 | dr | awaiting clinical code migration to emis web | outbound referral | <u>م</u> |
| | dr | | | 22 |
| 0 | gp | seen in influenza vaccination clinic | awaiting review | 2: |
| 0 | | awaiting clinical code migration to | athermote | 2 |
| 0 | nurse | emis web | other note | 22 |
| 0 | | ooh report | nhs direct report | 2: |
| - | | awaiting clinical code migration to | | |
| 0 | dr | emis web | inbound document | 20 |
| • | | awaiting clinical code migration to | | 24 |
| 0 | gp | emis web | day case report | 20 |
| | ather | seen by general practitioner with | | |
| ~ | other care | special interest in ear nose and | data transforred from other system | 2 |
| 0 | provider | throat disorders | data transferred from other system | 20 |
| 0 | | emergency consultation | accident & emergency | 20 |
| - | | awaiting clinical code migration to | | |
| 0 | gp | emis web | online services message | 19 |

| 0 | gp | hospital outpatient report | third party consultation | 19 |
|---|------------------------|---|------------------------------------|----|
| 0 | nurse | repeat prescription | awaiting review | 19 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | walk in centre | 19 |
| 0 | dr | hospital inpatient report | hospital inpatient report | 18 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | residential home visit note | 18 |
| | other care | | | |
| 0 | provider | walk-in clinic | | 18 |
| | | awaiting clinical code migration to | and the static base of the state | 10 |
| 0 | | emis web awaiting clinical code migration to | residential home visit note | 18 |
| 0 | | emis web | telephone triage encounter | 18 |
| 0 | dr | | | |
| | | outbound referral | outbound referral | 17 |
| 0 | gp | ooh report | third party consultation | 17 |
| 0 | gp | other consultation medium used | nhs direct report | 17 |
| 0 | gp | radiology result | awaiting review | 17 |
| 0 | gp | telephone consultation | telephone call from relative/carer | 17 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | enterprise consultation | 17 |
| | other care | | | |
| 0 | provider | walk-in clinic | walk in centre | 17 |
| 0 | | administration note | referral letter | 17 |
| 0 | dr | other note | other note | 16 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | nursing home visit note | 16 |
| 0 | dr | medication requested | repeat issue | 15 |
| | other care | | | 45 |
| 0 | provider | administration note | inbound document | 15 |
| 0 | other care provider | awaiting clinical code migration to emis web | out of hours, non practice | 15 |
| | provider | | | |
| 0 | other care | non-consultation data | data transferred from other system | 15 |
| 0 | provider | face to face consultation | triage | 15 |
| | provider | awaiting clinical code migration to | | 15 |
| 0 | dr | emis web | telephone call to a patient | 14 |
| 0 | dr | externally entered note | externally entered note | 14 |
| 0 | gp | hospital inpatient report | discharge details | 14 |
| 0 | <u>אס</u> | seen by general practitioner with | | 14 |
| | | special interest in ear nose and | | |
| 0 | gp | throat disorders | data transferred from other system | 14 |
| | other care | | | |
| 0 | provider | administration note | scanned document | 14 |
| | other care | | | |
| 0 | provider | discussion with other professional | awaiting review | 14 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | out of hours, practice | 14 |
| 0 | | externally entered note | | 14 |
| 0 | dr | telephone call to relative/carer | telephone call to relative/carer | 13 |
| - | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | nhs direct report | 13 |
| 0 | nurse | awaiting clinical code migration to emis web | out of hours, non practice | 13 |
| 0 | nurse | hospital inpatient note | | |
| 0 | | nospital inpatient note | awaiting review | 13 |

| 0 | | repeat prescription | awaiting review | 13 |
|---|---------------------|---|------------------------------------|------|
| 0 | gp | other note | encompass message | 12 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | hospital outpatient report | 12 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | s web accident & emergency | |
| 0 | nurse | other note | encompass message | 11 |
| 0 | nurse | repeat prescription | repeat issue | 11 |
| | other care | | | |
| 0 | provider | seen in influenza vaccination clinic | awaiting review | 11 |
| 0 | | awaiting clinical code migration to emis web | discussion with colleague | 11 |
| 0 | | awaiting clinical code migration to | | 11 |
| 0 | | emis web | hospital outpatient consultation | 11 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | walk-in clinic | 11 |
| 0 | | non-consultation medication data | medicine management | 11 |
| | | provision of general practitioner | <u> </u> | |
| 0 | | intermediate care | awaiting review | 10 |
| 0 | dr | clinic note | awaiting review | < 10 |
| | other care | | | |
| 0 | provider | ooh report | out of hours centre | < 10 |
| 0 | | administration note | non-consultation data | < 10 |
| 0 | | clinic note | nhs direct report | < 10 |
| 0 | | telephone follow-up | awaiting review | |
| 0 | gp | administration note | clinic note | < 10 |
| 0 | gp | progress report | awaiting review | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | acute visit | < 10 |
| | other care | multidisciplinary team meeting | | |
| 0 | provider | without patient | awaiting review | < 10 |
| 0 | | administration note | other note | < 10 |
| _ | | awaiting clinical code migration to | | |
| 0 | dr | emis web | home visit note | < 10 |
| 0 | gp | hospital inpatient note | day case report | < 10 |
| 0 | gp | inbound document | discharge details | < 10 |
| | | awaiting clinical code migration to | | . 10 |
| 0 | nurse other care | emis web | follow-up/routine visit | < 10 |
| 0 | provider | awaiting clinical code migration to emis web | discharge details | < 10 |
| | provider | awaiting clinical code migration to | | 110 |
| 0 | | emis web | enterprise consultation | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | nursing home visit note | < 10 |
| 0 | | email received from carer | awaiting review | < 10 |
| 0 | | ooh report | out of hours, practice | < 10 |
| 0 | | other note | data transferred from other system | < 10 |
| 0 | | outbound referral | referral letter | < 10 |
| 0 | | radiology result | awaiting review | < 10 |
| 0 | dr | gp surgery | awaiting review | < 10 |
| 0 | gp | routine consultation | repeat issue | < 10 |
| 0 | nurse | email received from carer | awaiting review | < 10 |
| | | | | |
| 0 | nurse | non-consultation data | data transferred from other system | < 10 |

| 0 | nurse | scanned document | docman | < 10 |
|----------|------------------------|---|------------------------------------|------|
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | home of patient | < 10 |
| 0 | other care provider | becnital outpatient report | lattar from outpatiants | < 10 |
| | | hospital outpatient report | letter from outpatients | < 10 |
| 0 | dr | discussion with colleague | discussion with colleague | < 10 |
| 0 | gp | administration note | discussion with colleague | < 10 |
| 0 | gp | awaiting clinical code migration to emis web | out of hours, practice | < 10 |
| 0 | | clinic note | out of hours, non practice | < 10 |
| | gp | | out of hours, practice | |
| 0 | gp | ooh report | | < 10 |
| 0 | gp | seen in diabetic clinic | awaiting review | < 10 |
| 0 | gp | sms text message sent to patient | awaiting review | < 10 |
| 0 | nurse | administration note | discussion with colleague | < 1(|
| 0 | other care | awaiting clinical code migration to | | . 10 |
| 0 | provider other care | emis web | nursing home | < 10 |
| 0 | provider | awaiting clinical code migration to emis web | online services message | < 10 |
| 0 | provider | awaiting clinical code migration to | onnine services message | < II |
| 0 | | emis web | bulk operation | < 10 |
| 0 | | non-consultation data | touchscreen | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | hospital outpatient report | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | other | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | b third party consultation | |
| 0 | dr | clinic note | clinic note | < 10 |
| 0 | dr | non-consultation data | non-consultation data | < 10 |
| _ | | awaiting clinical code migration to | | |
| 0 | gp | emis web | hospital inpatient report | < 10 |
| 0 | gp | clinic note | community clinic | < 10 |
| 0 | nurse | administration note | non-consultation data | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | non-consultation medication data | < 10 |
| 0 | other care | automoliu antorod noto | data transforred from other system | - 10 |
| 0 | provider other care | externally entered note | data transferred from other system | < 10 |
| 0 | provider | gp surgery | | < 10 |
| 0 | other care | | | × 1(|
| 0 | provider | other note | referral letter | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | nurseries/playgroup | < 10 |
| 0 | | hospital outpatient report | third party consultation | < 10 |
| 0 | gp | nurse telephone triage | nurse telephone triage | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | discussion with colleague | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | medicine management | < 10 |
| <u>^</u> | du | awaiting clinical code migration to | regidential horse states | |
| 0 | dr | emis web | residential home visit note | < 10 |
| 0 | dr | e-mail received from patient | e-mail received from patient | < 10 |
| 0 | dr | telephone call from relative/carer | telephone call from relative/carer | < 1 |

| 0 | gp | awaiting clinical code migration to emis web | walk-in centre | < 10 |
|---|------------------------|---|------------------------------------|------|
| 0 | gp | extended hours consultation | out of hours, non practice | < 10 |
| 0 | gp | externally entered note | | < 10 |
| 0 | gp | other consultation medium used | other note | < 10 |
| 0 | gp | telephone consultation | telephone call to relative/carer | < 10 |
| | <u> </u> | awaiting clinical code migration to | | × 10 |
| 0 | nurse | emis web | telephone encounter | < 10 |
| 0 | nurse | medication requested | awaiting review | < 10 |
| 0 | nurse | telephone follow-up | awaiting review | < 10 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | e-mail received from patient | < 10 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | mail from patient | < 10 |
| | other care | awaiting clinical code migration to | | 10 |
| 0 | provider | emis web | out of hours, practice | < 10 |
| 0 | other care provider | other note | data transferred from other system | < 10 |
| 0 | provider | awaiting clinical code migration to | | < 10 |
| 0 | | emis web | day case report | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | encompass message | < 10 |
| 0 | | e-mail encounter to carer | awaiting review | < 10 |
| 0 | | walk-in clinic | walk in centre | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | non-consultation data | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | other note | < 10 |
| 0 | dr | e-mail sent to patient | awaiting review | < 10 |
| 0 | gp | email received from third party | awaiting review | < 10 |
| 0 | gp | hospital inpatient note | awaiting review | < 10 |
| 0 | gp | night visit note | night visit | < 10 |
| 0 | gp | other note | third party consultation | < 10 |
| 0 | gp | telephone encounter | telephone call to relative/carer | < 10 |
| 0 | gp | telephone follow-up | awaiting review | < 10 |
| 0 | nurse | administration note | referral letter | < 10 |
| | harse | awaiting clinical code migration to | | × 10 |
| 0 | nurse | emis web | urgent consultation | < 10 |
| 0 | nurse | seen in asthma clinic | awaiting review | < 10 |
| 0 | nurse | seen in hospital ward | awaiting review | < 10 |
| 0 | nurse | telephone consultation | telephone call to relative/carer | < 10 |
| 0 | other care | | | × 10 |
| 0 | provider | administration note | other note | < 10 |
| | other care | | | |
| 0 | provider | administration note | referral letter | < 10 |
| | other care | | | |
| 0 | provider | administration note | repeat issue | < 10 |
| ~ | other care | | | |
| 0 | provider | administration note | results recording | < 10 |
| 0 | other care provider | awaiting clinical code migration to emis web | casualty attendance | < 10 |
| 0 | other care | awaiting clinical code migration to | | < 10 |
| | | emis web | diabetic clinic | < 10 |

| 0 | other care provider | awaiting clinical code migration to emis web | encompass message | < 10 |
|---|------------------------|---|---------------------------------------|------|
| 0 | other care | | | < 10 |
| 0 | provider | clinic note | nhs direct report | < 10 |
| - | other care | | | |
| 0 | provider | seen in diabetic clinic | en in diabetic clinic awaiting review | |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | other report | < 10 |
| 0 | | child in need meeting | awaiting review | < 10 |
| 0 | | hospital inpatient report | hospital inpatient | < 10 |
| 0 | | progress report | nhs direct report | < 10 |
| 0 | | repeat prescription | non-consultation medication data | < 10 |
| 0 | | weekly care home ward round | awaiting review | < 10 |
| 0 | dr | awaiting clinical code migration to emis web | non-consultation medication data | < 10 |
| 0 | ui - | awaiting clinical code migration to | | |
| 0 | dr | emis web | telephone call from a patient | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | telephone call from relative/carer | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | dr | emis web | telephone call to relative/carer | < 10 |
| 0 | an | awaiting clinical code migration to emis web | night visit , practice | < 10 |
| 0 | gp | awaiting clinical code migration to | | < 10 |
| 0 | gp | emis web | walk-in clinic | < 10 |
| 0 | gp | non-consultation medication data | non-consultation medication data | < 10 |
| 0 | gp | other consultation medium used | referral letter | < 10 |
| 0 | gp | other note | non-consultation data | < 10 |
| 0 | gp | other note | non-consultation medication data | < 10 |
| 0 | gp | seen in baby clinic | awaiting review | < 10 |
| 0 | gp | telephone encounter | telephone call from relative/carer | < 10 |
| 0 | nurse | administration note | clinic note | < 10 |
| 0 | nurse | administration note | laboratory result | < 10 |
| 0 | nurse | awaiting clinical code migration to | | |
| 0 | nurse | emis web | casualty attendance | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | nurse | emis web | patientchase insert | < 10 |
| 0 | nurse | clinic note | community clinic | < 10 |
| 0 | nurse | extended hours consultation | out of hours, non practice | < 10 |
| 0 | nurse | externally entered note | data transferred from other system | < 10 |
| 0 | nurse | first attendance face to face | awaiting review | < 10 |
| 0 | nurse | hospital inpatient note | awaiting review | < 10 |
| 0 | nurse | ooh report | out of hours, practice | < 10 |
| 0 | nurse | other consultation medium used | data transferred from other system | < 10 |
| 0 | nurse | other note | data transferred from other system | < 10 |
| 0 | nurse | other note | referral letter | < 10 |
| 0 | nurse | outbound referral | referral letter | < 10 |
| 0 | nurse | patient initiated enc. nos | awaiting review | < 10 |
| 0 | nurse | telephone consultation | telephone call from relative/carer | < 10 |
| 5 | nurse | telephone encounter | telephone call to relative/carer | < 10 |
| 0 | I HULSE | | | |

| | other care | | | |
|---------------|------------|-------------------------------------|------------------------------------|------|
| 0 provider ad | | administration note | mail to patient | < 10 |
| | other care | awaiting clinical code migration to | | |
| 0 | | | hospital inpatient report | < 10 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | hospital outpatient report | < 10 |
| | other care | awaiting clinical code migration to | | |
| 0 | provider | emis web | laboratory result | < 10 |
| | other care | | | |
| 0 | provider | clinic note | community clinic | < 10 |
| | other care | | | |
| 0 | provider | first attendance face to face | awaiting review | < 10 |
| | other care | | | |
| 0 | provider | inbound referral | awaiting review | < 10 |
| | other care | | | |
| 0 | provider | non-consultation data | data transferred from other system | < 10 |
| | other care | | | |
| 0 | provider | ooh report | out of hours, non practice | < 10 |
| | other care | | | |
| 0 | provider | telephone encounter | awaiting review | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | follow-up/routine visit | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | letter | < 10 |
| _ | | awaiting clinical code migration to | | |
| 0 | | emis web | minor injuries unit | < 10 |
| | | awaiting clinical code migration to | | |
| 0 | | emis web | secretary | < 10 |
| 0 | | email received from third party | awaiting review | < 10 |
| 0 | | gp surgery | non-consultation data | < 10 |
| 0 | | hospital inpatient report | awaiting review | < 10 |
| 0 | | hospital inpatient report | discharge details | < 10 |
| | | multidisciplinary team meeting with | | |
| 0 | | patient | awaiting review | < 10 |
| 0 | | night visit note | night visit, local rota | < 10 |
| 0 | | provision of general practitioner | | 11 |
| 0 | | intermediate care | gp2gp import | < 10 |
| 0 | | telephone triage encounter | nhs direct report | < 10 |
| 0 | | - · · · · | third party | < 1 |
| 0 | other care | third party consultation | | < 10 |
| 0 | provider | nurse telephone triage | nurse telenhone triago | < 10 |
| 0 | provider | nurse telephone triage | nurse telephone triage | <. |

Annex 3: NHS targets for cancer wait times

| | | Operation | nal standard | | | |
|--------------------------------|---|-----------------|--------------|--|--|--|
| Maximum two | Receipt of urgent referral for suspected cancer to first outpatient attendance | | | | | |
| weeks from | Receipt of referral of any patient with breast symptoms (where cancer not suspected) to first hospital assessment | | | | | |
| Maximum 28 days from | Receipt of two week wait referral for suspected cancer, receipt of urgent referral from a cancer screening programme (breast, bowel, cervical), and receipt of two week wait referral of any patient with breast symptoms (where cancer not suspected), to the date the patient is informed of a diagnosis or ruling out of cancer | | | | | |
| | Decision to treat to first definitive treatment | | | | | |
| Maximum one month (31 days) | Decision to treat/earliest clinically appropriate date to start of second or subsequent treatment(s) for all cancer patients including | surgery drug | 94% | | | |
| from: | those diagnosed with a recurrence where the subsequent treatment | treatment | 98% | | | |
| | is: | radiotherapy | 94% | | | |
| Maximum two | Urgent referral for suspected cancer to first treatment (62-day classic) | | | | | |
| months (62 days) from: | Urgent referral from a NHS Cancer Screening Programme (breast, cerv for suspected cancer to first treatment | vical or bowel) | 90% | | | |

Annex 4: Comparing Cancer Wait Times counts for referrals and first treatments with the NCRAS data equity pack

Table A4.1: Comparing Cancer Wait Times counts for referrals and first treatments with the NCRAS data equity pack

| | | 01 Apr 2020 - | - 31 Jan 2021 | | | | |
|-------------|---------------------|---------------|-----------------|-------------------------------|---------------|-----------|-------------------------------|
| | | First treatme | nts for new car | ncer | Urgent cancer | | |
| | | Observed | Expected | Percentage change (95% CI) | Observed | Expected | Percentage change (95% CI) |
| Cano | cer wait times data | | | | | | |
| | All | 224,323 | 267,946 | -16.3% (-16.6, -15.9) | 1,673,775 | 2,071,967 | -19.2% (-19.3, -19.1) |
| NCR pack | AS data equity | | | | | | |
| | All | 219,410 | 254,436 | -13.8% (-14.3, -13.3) | 1,658,309 | 1,984,489 | -16.4% (-16.6, -16.3) |
| | Breast | 30,488 | 40,530 | -24.8% (-25.9, -23.6) | 337,582 | 363,139 | -7% (-7.5, -6.6) |
| | Gynaecological | 11,281 | 12,344 | -8.6% (-10.9, -6.2) | 158,723 | 176,985 | -10.3% (-10.9, -9.7) |
| | Head and Neck | 8,892 | 9,901 | -10.2% (-12.7, -7.6) | 163,668 | 189,837 | -13.8% (-14.4, -13.2) |
| | Lower GI | 23,507 | 27,056 | -13.1% (-14.6, -11.6) | 302,369 | 366,677 | -17.5% (-17.9, -17.1) |
| | Lung | 24,796 | 27,409 | -9.5% (-11.1, -8.0) | 33,830 | 53,641 | -36.9% (-37.8, -36.1) |
| | Skin | 40,977 | 43,475 | -5.7% (-7.0, -4.5) | 338,172 | 429,802 | -21.3% (-21.7, -21.0) |
| | Upper GI | 17,059 | 17,586 | -3% (-5.0, -0.9) | 141,720 | 163,013 | -13.1% (-13.7, -12.4) |
| | Urological | 37,970 | 50,056 | -24.1% (-25.2, -23.1) | 134,389 | 184,642 | -27.2% (-27.7, -26.7) |
| | All other | 24,441 | 26,080 | -6.3% (-7.9, -4.6) | 47,856 | 56,753 | -15.7% (-16.7, -14.6) |

Annex 5: Patient demographics and person-time and total numbers of observed activity in CPRD Aurum sample

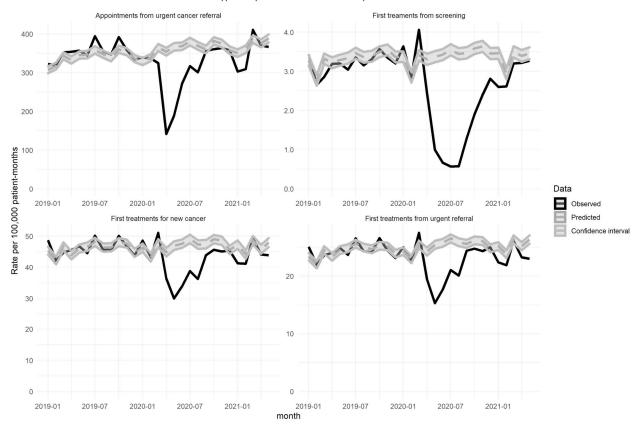
Table A5.1: Patient demographics in CPRD Aurum sample as at 22 March 2020

| | Patient count as at 22 | March 2020 |
|-----------------------------|------------------------|------------|
| | n | % |
| All | 375,501 | |
| Female | 187,509 | 49.9% |
| Male | 187,992 | 50.1% |
| Under 11 | 39,611 | 10.5% |
| 11 to 19 | 43,406 | 11.6% |
| 20 to 49 | 157,962 | 42.1% |
| 50 to 69 | 87,482 | 23.3% |
| 70 and older | 47,040 | 12.5% |
| IMD Quintile - 1 | 78,759 | 21.0% |
| IMD Quintile - 2 | 73,046 | 19.5% |
| IMD Quintile - 3 | 71,840 | 19.1% |
| IMD Quintile - 4 | 77,545 | 20.7% |
| IMD Quintile - 5 IMD not | 74,020 | 19.7% |
| recorded | 291 | 0.1% |

Table A5.2: Person time (weeks) and total primary care activity analysed - CPRD Aurum

| | 3 January 2016 - 21March 2020* | | | | 22 March 2020 - 30 January 2021 | | | |
|--|--------------------------------|------------------------------|-------------------|---|---------------------------------|------------------------------|-------------------|---|
| | Patient-time (weeks) | 100,000 person- months | Activity count | Observed rate per 100,000 person-months | Patient- time (weeks) | 100,000 person- months | Activity count | Observed rate per 100,000 person-months |
| Consultations excl flu vaccinations | 78,868,977 | 181.44 | 6,912,079 | 38,095 | 16,701,707 | 38.19 | 1,306,206 | 34,201 |
| Routine Referrals | 78,868,977 | 181.44 | 312,422 | 1,722 | 16,701,707 | 38.19 | 40,744 | 1,067 |
| 2 Week Wait Referrals | 78,868,977 | 181.44 | 38,905 | 214 | 16,701,707 | 38.19 | 10,235 | 268 |

*The pre-pandemic period consists of 220 weeks or 51.61 months, the post pandemic period is 45 weeks or 10.29 months



Annex 6: Observed vs expected appointment and cancer diagnosis counts from CWT data from 01 Jan 2019 (per person-month)

Annex 7: Observed vs expected consultations by IMD quintile

Figure A7: Observed vs expected consultations per person per week by IMD quintile, age-standardised (01 Jan 2019 – 30 Jan 2021)

