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Recording and treatment of premenstrual syndrome in UK general practice: a retrospective cohort study

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Title: Recording and treatment of premenstrual syndrome in UK general practice: a retrospective cohort study

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Abstract

 Objectives: To investigate the rate of recording of premenstrual syndrome) diagnoses in United Kingdom primary care and describe pharmacological treatments initiated following a premenstrual syndrome diagnosis.

Design: Retrospective cohort study

Setting: United Kingdom primary care

Participants: Women registered with a practice contributing to The Health Improvement Network primary care database between 1995 and 2013.

Primary and secondary outcome measures: The primary outcome was the rate of first premenstrual syndrome records per thousand person years, stratified by calendar year and age. The secondary outcome was the proportions of women with a premenstrual syndrome record prescribed a selective serotonin reuptake inhibitor, progestogen, oestrogen, combined oral contraceptive, progestin only contraceptive, gonadotrophin-releasing hormone, danazol, vitamin B6.

Results: The rate of recording of premenstrual syndrome diagnoses decreased over calendar time from 8.43 in 1995 to 1.72 in 2013. Of the 38,614 women without treatment in the 6 months prior to diagnosis, 54% received a potentially premenstrual syndrome related prescription on the day of their first PMS record while 77% received a prescription in the 24 months after. Between 1995 and 1999 the majority of women were prescribed progestogens (23%) or Vitamin B6 (20%) on the day of their first PMS record, after 1999 these figures fell to 3% for progestogen and Vitamin B6 with the majority of women instead being prescribed a selective serotonin reuptake inhibitor (28%) or combined oral contraceptive (17%).

Conclusions: Recording of premenstrual syndrome diagnoses in United Kingdom primary care has declined substantially over time and preferred treatment has changed from progestogen to selective serotonin reuptake inhibitor and combined oral contraceptives.

Strengths and limitations of the study

- The UK primary care database used in this study contains data on the routine clinical management of a representative sample of the UK general population.
- The longitudinal nature of the database allowed us to report on changes in the recording and treatment of premenstrual syndrome over an 18 year period (1995-2013).
- Cases were ascertained using diagnostic codes recorded in general practice rather than through prospective methods, case certainty is therefore less than 100%.
- As the indication for prescriptions is not recorded in the data source prescriptions were assumed to be for PMS based on their timing with regard the first PMS diagnosis record.

Background

Premenstrual syndrome (PMS) comprises a range of physical, psychological and behavioural symptoms experienced by many pre-menopausal women during the luteal phase of their menstrual cycle. Premenstrual dysphoric disorder (PMDD), a severe sub-type of PMS, has been defined in the Diagnostic and Statistical Manual of Mental Disorders (DSM) as occurring when a woman suffers from at least five distinct psychological premenstrual symptoms. ²

Prevalence estimates of PMS vary depending on the methods used to identify and classify cases. The proportion of women of reproductive age reporting at least one PMS symptom has been reported to range between 50% and 90%, the proportion reporting severe PMS symptoms or symptoms that interfere with daily activities to range between 10% and 30% and the proportion meeting the strict DSM PMDD criteria of having at least 5 psychological symptoms to range between 1% and 8%.³

While the proportion of women of reproductive age suffering clinically relevant PMS symptoms appears to be high, the proportion of women who seek medical help has been less well studied. A survey of 300 women in the UK in 1998 classified 31% as having severe PMS symptoms, of whom 53% sought medical help. This compares with 45% and 29% of women with severe premenstrual symptoms seeking medical attention in the USA and France in 1998 respectively, while 41% of women with severe PMS in a separate study in Switzerland reported consulting a doctor between 1986 and 1993.

Guidelines for the management of PMS have been published by the Royal College of Obstetricians and Gynaecologists (RCOG)⁶ and, more recently, by the International Society for Premenstrual Disorders (ISPMD). The RCOG guidelines suggest the use of exercise, cognitive behavioural therapy (CBT), vitamin B6, new generation combined oral contraceptives (cyclically or continuously) and/or low dose selective serotonin reuptake inhibitors (used continuously or only during the luteal phase) as first line treatment and the use of oestradiol patches and/or higher dose selective serotonin reuptake inhibitors (SSRIs) (also used continuously or only during the luteal phase) as second line treatment. Gondaotrophin analogues (with add-back hormone replacement therapy) are recommended as third line treatment and total abdominal hysterectomy and bilateral oopherectomy with hormone replacement therapy as fourth line treatment. The ISPMD recommend both SSRI's and all of the oestrogen suppressing treatments listed above and but do not recommend different treatments and dosing schedules for specific treatment lines. A study investigating treatments prescribed in UK primary care on the day of a PMS record found that between 1993 and 1998 progestogens were the most commonly prescribed treatment and that vitamin B6 prescribing decreased over the period while SSRI prescribing increased.⁶ However, there is little information on current prescribing practices.

This study seeks to estimate the rate of recording of PMS diagnoses in UK primary care over an 18 year period and establish which pharmacological treatments were most commonly initiated following a PMS diagnosis.

Methods

This study was carried out using The Health Improvement Network (THIN). THIN is an electronic healthcare database containing the anonymised primary care medical records of more than 12 million individuals in the UK general population. Patient data routinely available in the database include demographic details, diagnoses and symptoms (including those leading to hospital admissions), immunisations, pregnancies, laboratory tests, referrals to specialists, prescriptions issued by the GP, hospital discharge and clinic summaries and deaths. Clinical events in primary care are recorded against clinical codes known as a Read codes. There are currently over 100,000 Read codes each of which is associated with a short description of varying specificity. Recording of additional, unstructured textual information in association with a Read code is possible. This information, commonly referred to as 'free text', generally contains elaborations on the information in the coded record.

The study population consisted of all women registered with a GP practice contributing to THIN, aged between 12 and 49 years. Follow up of each woman began at the latest of the 01/01/1995, 182 days after their registration date, 12 years of age and the date their practice recording reached acceptable levels. ^{12, 13} Follow up of each woman ended at the earliest of the 01/01/2014, 50 years of age, the date the woman transferred out of their practice, the date data was last collected from their practice and the patient's date of death.

Code lists defining PMS diagnoses and prescriptions were developed following the method described by Davé and Petersen. Prescriptions were categorised into one of the following categories of interest, based on the British National Formulary: selective serotonin reuptake inhibitors (SSRI), progestogen, oestrogen, combined oral contraceptive (COC), progesterone only contraceptive (POC), danazol, gonadotrophin releasing hormone (GnRH) analogues and vitamin B6.

All women with PMS diagnostic codes recorded during follow up were identified and the rate of recording was calculated as the number of first PMS diagnosis codes recorded divided by the total amount of follow up time at risk. Among individuals with a PMS event, follow up was censored at the date of the first PMS record. Recording rates were calculated stratified by calendar year and age and 95% confidence intervals were calculated assuming a Poisson distribution.

Among those women with a first PMS record meeting the inclusion criteria, the proportion with a first record of one of the PMS related drugs listed above in the 6 months before their PMS record was calculated, these women were considered prevalent users. We also estimated the proportion of women by calendar year with a first PMS record meeting the inclusion criteria with a prescription for PMS related drugs on the day of their PMS record or in the 24 months after the PMS record (bu not in the 6 months before the PMS record was made in the notes). We use cumulative incidence plots to describe the proportions of individuals initiating each treatment at the time of or in the 24 months after a PMS record as a function of time. The proportion of women receiving prescriptions for different types of SSRI and COC were calculated stratified by calendar year, and for SSRI's the daily dose prescribed was also tabulated

Stata 13 were used in the management and analysis of all data.

Results

There were 2,860,143 eligible women contributing 12.6 million person years (PY) of data. Of these, there were 42,754 individuals with a first PMS event recorded providing an overall rate of recording of 3.38 PMS records per 1,000 PY (95 % CI 3.35 - 3.41).

The rate of PMS recording decreased dramatically over time from 8.43/1,000 PY (CI95 8.02-8.85) in 1995 to 1.72/1,000 PY (CI95 1.63-1.81) in 2013 (Figure 1). The decrease was relatively rapid between 1995 and 2000, levelled off between 1999 and 2000 and then began to decrease again after to 2000.

The rate of recording of PMS diagnoses increased by age from 1.21/1,000 PY (CI95 1.13 - 1.28) in those aged between 11 and 14 years to 5.61/1,000 PY (CI95 5.50 - 5.71) in those aged 35-40 years at which point the rate peaked and began to fall again reaching 2.07/1,000 PY (CI95 2.00 - 2.13) in those aged 45-50 years (Table 1).

Ten percent of women received a prescription for one of the drugs of interest in the 6 months before their first PMS record. Prevalent treatment remained relatively stable across the study period for all drug categories other than COC's. The proportion of women with a COC prescription in the 6 months before their PMS record was 9% (141/1567) in 1995 but decreased to between 2% and 5% between 1996 and 2011 (Table S1).

Fifty four percent of women (20,996/38,614) without a given prescription in the 6 months before their PMS record had a prescription of interest on the day of diagnosis. While the overall proportion receiving a prescription of interest remained stable over time the proportions initiating specific drug types changed (Figure 2). The proportion of women initiating SSRI's has increased from 2.3% (35/1522) to 27.6% (381/1380), POC's from 1.1% (17/1545) to 6.2% (87/1403) and COC's from 10.6% (151/1425) to 17.2% (239/1390) over the study period (Figure 3a). In contrast the proportion initiating progestogen has declined from 22.8% (350/1535) to 2.9% (41/1414), oestrogen from 2.1% (32/1524) to 0.6% (8/1333) and vitamin B6 from 20.0% (310/1550) to 3.7% (52/1405) (Figure 3b). Prescribing of GnRH analogues and danazol on the day of a PMS record was too low (<1%) to observe trends over time.

Seventy seven percent of women (29,891/38,614) had a prescription of interest on the day of their PMS record or in the 24 months after, this proportion remained stable over time. Figure 3 shows the cumulative proportion of prescriptions in the 24 months following the first PMS record between 2008 and 2011 for each drug type. With the exception of Vitamin B6, the proportion of women with a prescription in this time period increased considerably over the 24 months for all drug types such that by 24 months 44% (3,648/8,365) had received a SSRI prescription, 28% (2,363/8,434) a COC prescription, 12% (1,030/8,475) a progestogen prescription, 20% (1,727/8,463) a POC prescription and 3% (293/8557) an oestrogen prescription.

The type of SSRI prescribed on the day of the first PMS record is shown in Figure 4 as a proportion of all SSRI prescriptions. Fluoxetine is the most prescribed SSRI throughout the study period, making up more than 50% of SSRI prescriptions. Citalopram and, more recently, sertraline make up an increasing proportion of SSRI prescriptions over time, while paroxetine and escitalopram make up a decreasing proportion. The dose of SSRI prescribed per day is shown in Table 2 and is primarily 10 or 20mg for citalopram, 5, 10 or 20mg for escitalopram, 10mg for fluoxetine, 10, 20 or 30mg for paroxetine and 50 or 100mg for sertraline.

Discussion

Summary

Recording of PMS diagnoses in UK primary care has decreased substantially over time and among those women with a PMS record, the preferred treatment has changed from progestogen to selective serotonin reuptake inhibitors and combined oral contraceptives.

Diagnoses

The main limitation of this study relates to the completeness of recording of PMS diagnoses. GPs may record the symptoms of a woman presenting with PMS, but not record a specific PMS diagnosis code. As a result, rates reported in this study represent the number of *recorded* diagnoses, and are unlikely to reflect the 'true' incidence of PMS in the community. As the prevalence of 'true' diagnoses of PMS reported in prospective studies has not decreased over time¹², we suspect that the decrease in recording of PMS in primary care is likely to result from factors that influence the rate of consultations for premenstrual symptoms or recording practices such as changes in the perception of the syndrome by women and/or healthcare professionals.

Wyatt *et al*¹³ and Weisz and Knaapen¹⁴ investigated PMS recording in UK primary care from 1993 to 1998 and 2004 to 2006, respectively. Direct comparison of our results with these two studies is not possible as the two previous studies used the total number of primary care consultations as the denominator for their recording rates. However, similar to our study, these two studies found that, relative to the prevalence of premenstrual symptoms reported in the literature, PMS diagnoses did not appear to be commonly recorded in UK primary care. The studies by Wyatt *et al*¹³ and Weisz and Knaapen¹⁴ also reported a decrease in recording rates over time, our results support these findings and illustrate that rates have continued to decrease to 2013.

Prescribing

As prescriptions in THIN are not specifically linked to an indication we cannot be certain that prescriptions issued after, or even on the date of the PMS record were issued for the treatment of PMS. However, prescriptions issued on the date of a PMS record and not during the prior 6 months are likely to be specific to the treatment of PMS. While prescriptions issued over the 24 months after a PMS record are increasingly likely to be for indications other than PMS, delays between the first PMS record and initiation of pharmacological treatment may arise due to the completion of symptom diaries or initiation of non-pharmacological treatments as a first line approach. As a result, the total proportion of women prescribed a pharmacological treatment in primary care after a PMS diagnosis should lie somewhere between the proportion with a prescription on the date of their PMS record (54%) and the proportion with a prescription in the 24 months after their PMS record (77%). If one assumes that women with a PMS record in our study are primarily those with moderate to severe symptoms, the above proportions compare with 40% of women in the UK, 44% of women in the USA and 25% of women in France with self-reported moderate to severe symptoms on prescription treatment in 1998.⁴

The changes in prescribing from 1995 to 1998 compare favourably ine with those reported by Wyatt et al¹³ for this period. Weisz and Knaapen¹⁴ reported stable proportions of prescriptions for different drug types over their 3 year study period (2004-2006); taken in isolation our data for the same

period also appear relatively stable. Our study, however, by covering a longer period allowed better observation of the e changes in the type of PMS treatment prescribed over time with SSRI's and COC's super ceeding progestogen and oestrogen as the preferred treatments for PMS in primary care after 1999. The increasing use of SSRI's and decreasing use of progestogen in primary care is largely in line with the evolving evidence base for PMS treatments with a number of meta analyses and guidelines supporting the effectiveness of SSRI's. 15,16 and questioning the effectiveness of progestogens 15,17. The increased prescribing of COC's is somewhat surprising given the limited evidence supporting their efficacy in the treatment of PMS. 18-20 The limited evidence supporting the efficacy of oestrogen treatment for PMS^{21,22} and concerns surrounding its safety may explain the considerable decline in its use in the treatment of PMS. Notably, while concomitant progestogen treatment can mitigate some of the risk associated with oestrogen based therapy, PMS symptoms produced by the progestogens limit the efficacy of combined oestrogen-progestogen therapy as a treatment for PMS. The preference for COC's over oestrogen therapy may reflect GP's greater familiarity with COC"s relative to transdermal oestrogen therapy. Notably, as our data do not include gynaecologist and psychiatrist prescribing the results cannot be generalised to changes in prescribing practices within such specialities.

As pointed out by Wyatt et al.¹³, the decrease in Vitamin B6 use in 1998 and 1999 is likely to have resulted from the discovery that high doses might result in peripheral neuropathy and subsequent proposals to restrict access to the drug. Our data confirm that Vitamin B6 prescribing has continued to decrease slightly since 1998. However, as Vitamin B6 is also sold over-the-counter (OTC) this decrease in use may result from an increase in the consumption of OTC Vitamin B6. As Danazol and GnRH analogues are not typically used as first or second line treatment it is unsurprising that few women are prescribed these drugs in the 24 months after their first PMS record.

The increasing proportion of SSRI prescriptions for citalopram and sertraline, decreasing proportion for paroxetine and escitalopram and stable proportion for fluoxetine are in line with trends in the use of SSRI's in general in the UK.²³ However, in the general population, the rate of initiation of citalopram is now greater than fluoxetine whereas in our study fluoxetine remains the treatment most commonly initiated on the day of a PMS record.²³ This difference may reflect the larger evidence base for the use of fluoxetine for the treatment of premenstrual syndrome, with a recent meta-analysis¹⁶ and systematic review¹⁵ including six to ten studies on fluoxetine but only one on citalopram. The doses of each SSRI prescribed were largely in line with the recommended dose for the treatment of depression in the UK.²⁴ Unfortunately no information was available on the dosing schedule for SSRI's (continuous vs luteal phase only) or COC's (cyclical vs. continuous).

Conclusions

The recording of PMS diagnoses in UK primary care has declined between 1995 and 2013, while this is likely to represent a decrease in healthcare seeking behaviour or a decrease in recording in primary care rather than a decrease in the community prevalence of the condition, further work is needed to investigate the specific reason for the decrease. The change in the preferred treatment for PMS in primary care, from progestogens to SSRI's and COC's, is largely in line with current evidence and guidelines.

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Contributions CS had the original idea for the study. CS, IN and IP designed the study. CS performed the analysis. CS, IN and IP interpreted the results. CS drafted the manuscript. IP and IN revised it critically for important intellectual content. CS, IN and IP approved the final version to be published.

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Competing interests: We have read and understood BMJ policy on declaration of interests and declare that we have no competing interests.

Ethics: THIN has overall ethical approval from the South East Multicentre Research Ethics Committee (reference number: 07/H1102/103).

Data sharing statement: No additional data are available.

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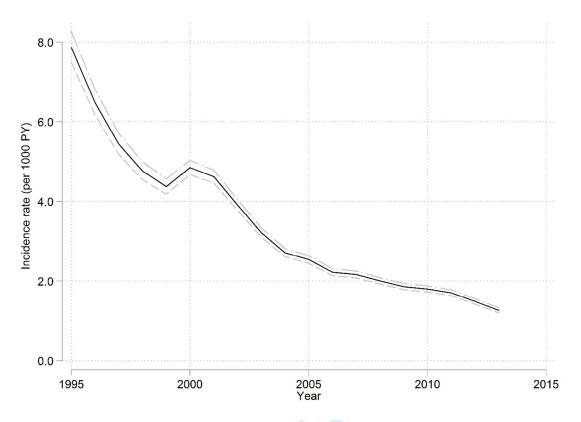


Figure 1 Calendar year specific rates (per 1,000 person years) of first PMS records in UK general practice

Table 1. Age specific rates (per 1,000 person years) of first PMS records in UK general practice

0 - 1			0 - 1
Age (years)	N	IR	Cl ₉₅
12-14	1056	1.21	(1.14 - 1.28)
15-19	1975	1.50	(1.43 - 1.57)
20-24	2475	1.80	(1.73 - 1.87)
25-29	5165	3.28	(3.19 - 3.37)
30-34	8947	5.04	(4.94 - 5.15)
35-39	10768	5.61	(5.5 - 5.71)
40-44	8540	4.39	(4.3 - 4.49)
45-49	3808	2.07	(2 - 2.13)

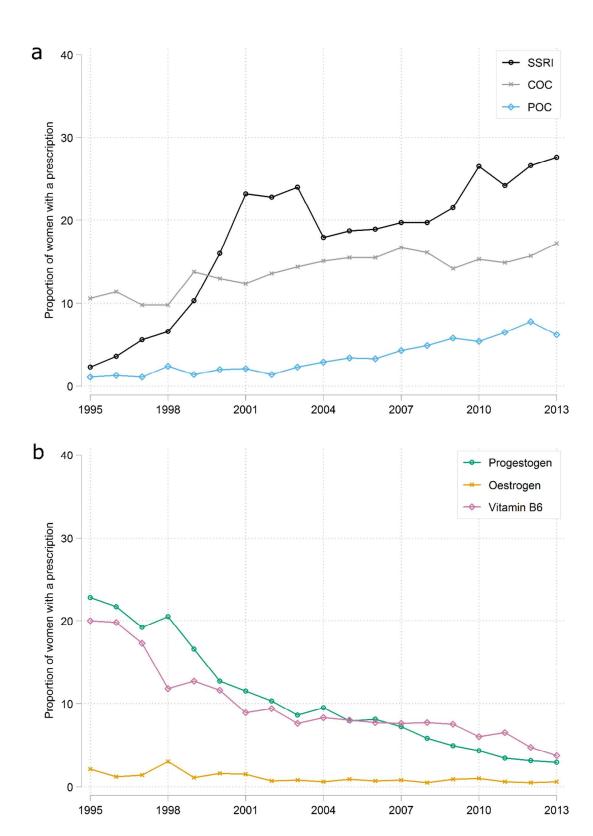


Figure 2 Calendar year specific proportion of women without a given prescription in the 6 months before their PMS record who had (a) an SSRI, COC or POC prescription or (b) a progestogen, oestrogen or vitamin B6 prescription on the day of their first PMS record.

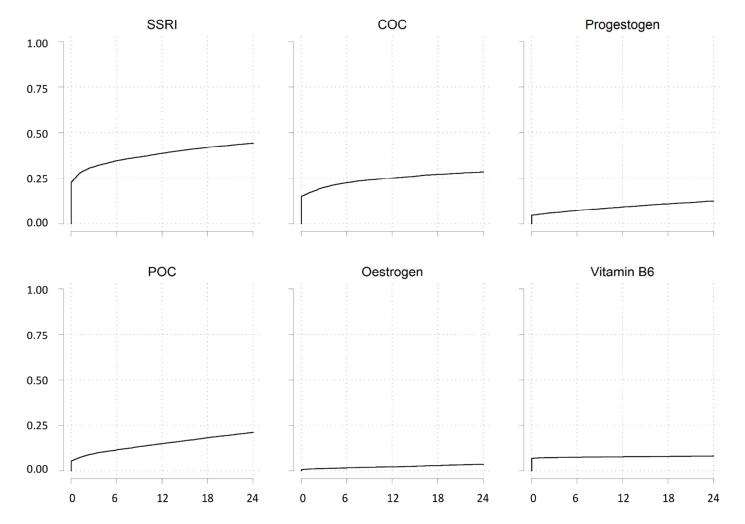


Figure 3. Cumulative incidence of prescriptions in the 2 years following a PMS diagnosis record for the period 2010 to 2013.

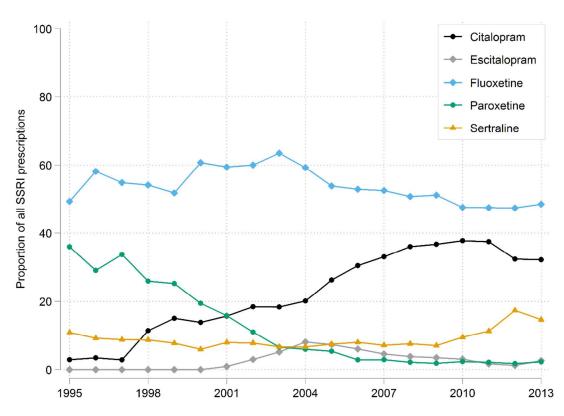


Figure 4 Type of SSRI prescribed on the day of the first PMS record over time, as a proportion of all SSRI prescriptions.

Table 2 Type and daily dose of SSRI prescribed on the day of a PMS record

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Daily dose	Citalo	pram	Escita	lopram	Fluox	etine	Paro	xetine	Sert	raline
(mg)	n	%	n	%	n	%	n	%	n	%
5	0	(0)	27	(15.7)	0	(0)	0	(0)	0	(0)
7.5	1	(0.1)	0	(0)	0	(0)	0	(0)	0	(0)
10	452	(30.4)	80	(46.5)	16	(0.3)	26	(4.9)	0	(0)
15	4	(0.3)	0	(0)	0	(0)	1	(0.2)	0	(0)
20	501	(33.7)	18	(10.5)	3,880	(79.5)	356	(67.6)	0	(0)
25	0	(0)	0	(0)	0	(0)	0	(0)	3	(0.6)
30	3	(0.2)	0	(0)	3	(0.1)	47	(8.9)	0	(0)
40	67	(4.5)	0	(0)	81	(1.7)	16	(3)	0	(0)
45	0	(0)	0	(0)	0	(0)	1	(0.2)	0	(0)
50	0	(0)	0	(0)	0	(0)	0	(0)	333	(62.6)
60	1	(0.1)	0	(0)	15	(0.3)	1	(0.2)	0	(0)
75	0	(0)	0	(0)	0	(0)	0	(0)	4	(8.0)
100	0	(0)	0	(0)	0	(0)	0	(0)	40	(7.5)
200	0	(0)	0	(0)	0	(0)	0	(0)	5	(0.9)
Unknown	458	(30.8)	47	(27.3)	883	(18.1)	79	(15)	147	(27.6)
Total	1,487	(100)	172	(100)	4,878	(100)	527	(100)	532	(100)
4-1		—	,							

^{*}Fluvoxamine prescriptions (n=4) not shown

STROBE 2007 (v4) Statement—Checklist of items that should be included in reports of cohort studies

Section/Topic	Item #	Recommendation	Reported on page #
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	2
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	3
Objectives	3	State specific objectives, including any prespecified hypotheses	3
Methods			
Study design	4	Present key elements of study design early in the paper	4
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up	4
		(b) For matched studies, give matching criteria and number of exposed and unexposed	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	4
Data sources/	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe	4
measurement		comparability of assessment methods if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	4
Study size	10	Explain how the study size was arrived at	NA
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	4
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	4
		(b) Describe any methods used to examine subgroups and interactions	4
		(c) Explain how missing data were addressed	NA
		(d) If applicable, explain how loss to follow-up was addressed	4
		(e) Describe any sensitivity analyses	4
Results			

Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed	5
		eligible, included in the study, completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	5
		(c) Consider use of a flow diagram	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential	5
		confounders	
		(b) Indicate number of participants with missing data for each variable of interest	NA
		(c) Summarise follow-up time (eg, average and total amount)	
Outcome data	15*	Report numbers of outcome events or summary measures over time	5
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence	5
		interval). Make clear which confounders were adjusted for and why they were included	
		(b) Report category boundaries when continuous variables were categorized	NA
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	5
Discussion			
Key results	18	Summarise key results with reference to study objectives	6
Limitations			
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from	6, 7
		similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	6, 7
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on	8
		which the present article is based	

^{*}Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

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

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Recording and treatment of premenstrual syndrome in UK general practice: a retrospective cohort study

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Title: Recording and treatment of premenstrual syndrome in UK general practice: a retrospective cohort study

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Abstract

 Objectives: To investigate the rate of recording of premenstrual syndrome diagnoses in United Kingdom primary care and describe pharmacological treatments initiated following a premenstrual syndrome diagnosis.

Design: Retrospective cohort study

Setting: United Kingdom primary care

Participants: Women registered with a practice contributing to The Health Improvement Network primary care database between 1995 and 2013.

Primary and secondary outcome measures: The primary outcome was the rate of first premenstrual syndrome records per thousand person years, stratified by calendar year and age. The secondary outcome was the proportions of women with a premenstrual syndrome record prescribed a selective serotonin reuptake inhibitor, progestogen, oestrogen, combined oral contraceptive, progestin only contraceptive, gonadotrophin-releasing hormone, danazol, vitamin B6.

Results: The rate of recording of premenstrual syndrome diagnoses decreased over calendar time from 8.43 in 1995 to 1.72 in 2013. Of the 38,614 women without treatment in the 6 months prior to diagnosis, 54% received a potentially premenstrual syndrome related prescription on the day of their first PMS record while 77% received a prescription in the 24 months after. Between 1995 and 1999 the majority of women were prescribed progestogens (23%) or Vitamin B6 (20%) on the day of their first PMS record, after 1999 these figures fell to 3% for progestogen and Vitamin B6 with the majority of women instead being prescribed a selective serotonin reuptake inhibitor (28%) or combined oral contraceptive (17%).

Conclusions: Recording of premenstrual syndrome diagnoses in United Kingdom primary care has declined substantially over time and preferred prescription treatment has changed from progestogen to selective serotonin reuptake inhibitor and combined oral contraceptives.

Strengths and limitations of the study

- The UK primary care database used in this study contains data on the routine clinical management of a representative sample of the UK general population.
- The longitudinal nature of the database allowed us to report on changes in the recording and treatment of premenstrual syndrome over an 18 year period (1995-2013).
- Cases were ascertained using diagnostic codes recorded in general practice rather than through prospective methods, case certainty is therefore less than 100%.
- As the indication for prescriptions is not recorded in the data source prescriptions were assumed to be for PMS based on their timing with regard the first PMS diagnosis record.

Background

Premenstrual syndrome (PMS) comprises a range of physical, psychological and behavioural symptoms experienced by many pre-menopausal women during the luteal phase of their menstrual cycle. Common symptoms include anxiety, irritability, depression, mood swings, sleep disorders, fatigue, altered interest in sex, breast tenderness, weight gain, headaches, change in appetite, general aches and pain, and feeling bloated. Premenstrual dysphoric disorder (PMDD), a severe subtype of PMS, has been defined in the Diagnostic and Statistical Manual of Mental Disorders (DSM) as occurring when a woman suffers from at least five distinct psychological premenstrual symptoms.

Prevalence estimates of PMS vary depending on the methods used to identify and classify cases. The proportion of women of reproductive age reporting at least one PMS symptom has been reported to range between 50% and 90%, the proportion reporting severe PMS symptoms or symptoms that interfere with daily activities to range between 10% and 30% and the proportion meeting the strict DSM PMDD criteria of having at least 5 psychological symptoms to range between 1% and 8%.³

While the proportion of women of reproductive age suffering clinically relevant PMS symptoms appears to be high, the proportion of women who seek medical help has been less well studied. A survey of 300 women in the UK in 1998 classified 31% as having severe PMS symptoms, of whom 53% sought medical help. This compares with 45% and 29% of women with severe premenstrual symptoms seeking medical attention in the USA and France in 1998 respectively, while 41% of women with severe PMS in a separate study in Switzerland reported consulting a doctor between 1986 and 1993.

Evidence based⁶⁻¹³ guidelines for the management of PMS have been published by the Royal College of Obstetricians and Gynaecologists (RCOG)¹⁴ and, more recently, by the International Society for Premenstrual Disorders (ISPMD). 15 The RCOG guidelines suggest the use of exercise, cognitive behavioural therapy (CBT), vitamin B6, new generation combined oral contraceptives (cyclically or continuously) and/or low dose selective serotonin reuptake inhibitors (used continuously or only during the luteal phase) as first line treatment and the use of oestradiol patches and/or higher dose selective serotonin reuptake inhibitors (SSRIs) (also used continuously or only during the luteal phase) as second line treatment. Gondaotrophin analogues (with add-back hormone replacement therapy) are recommended as third line treatment and total abdominal hysterectomy and bilateral oopherectomy with hormone replacement therapy as fourth line treatment. The ISPMD recommend both SSRI's and all of the oestrogen suppressing treatments listed above and but do not recommend different treatments and dosing schedules for specific treatment lines. A study investigating treatments prescribed in UK primary care on the day of a PMS record found that between 1993 and 1998 progestogens were the most commonly prescribed treatment and that vitamin B6 prescribing decreased over the period while SSRI prescribing increased.⁶ However, there is little information on current prescribing practices.

This study seeks to estimate the rate of recording of PMS diagnoses in UK primary care over an 18 year period and establish which pharmacological treatments were most commonly initiated following a PMS diagnosis.

Methods

 This study was carried out using The Health Improvement Network (THIN). THIN is an electronic healthcare database containing the anonymised primary care medical records of more than 12 million individuals in the UK general population. Patient data routinely available in the database include demographic details, diagnoses and symptoms (including those leading to hospital admissions), immunisations, pregnancies, laboratory tests, referrals to specialists, prescriptions issued by the GP, hospital discharge and clinic summaries and deaths. Clinical events in primary care are recorded against clinical codes known as a Read codes. There are currently over 100,000 Read codes each of which is associated with a short description of varying specificity. Recording of additional, unstructured textual information in association with a Read code is possible. This information, commonly referred to as 'free text', generally contains elaborations on the information in the coded record.

The study population consisted of all women registered with a GP practice contributing to THIN, aged between 12 and 49 years. Follow up of each woman began at the latest of the 01/01/1995, 182 days after their registration date, 12 years of age and the date their practice recording reached acceptable levels. Follow up of each woman ended at the earliest of the 01/01/2014, 50 years of age, the date the woman transferred out of their practice, the date data was last collected from their practice and the patient's date of death.

Code lists defining PMS diagnoses and prescriptions were developed following the method described by Davé and Petersen and are provided in table S1 and table S2 of supplementary file 1.¹⁶
Prescriptions were categorised into one of the following categories of interest, based on the British National Formulary: selective serotonin reuptake inhibitors (SSRI), progestogen, oestrogen, combined oral contraceptive (COC), progesterone only contraceptive (POC), danazol, gonadotrophin releasing hormone (GnRH) analogues and vitamin B6.

All women with PMS diagnostic codes recorded during follow up were identified and the rate of recording was calculated as the number of first PMS diagnosis codes recorded divided by the total amount of follow up time at risk. Among individuals with a PMS event, follow up was censored at the date of the first PMS record. Recording rates were calculated per 1000 person years and are presented stratified by calendar year and age; 95% confidence intervals were calculated assuming a Poisson distribution.

Among those women with a first PMS record meeting the inclusion criteria, the proportion with a first record of one of the PMS related drugs listed above in the 6 months before their PMS record was calculated, these women were considered prevalent users. We also estimated the proportion of women by calendar year with a first PMS record meeting the inclusion criteria with a prescription for PMS related drugs on the day of their PMS record or in the 24 months after the PMS record (but not in the 6 months before the PMS record was made in the notes). We use cumulative incidence plots to describe the proportions of individuals initiating each treatment at the time of or in the 24 months after a PMS record as a function of time. The proportion of women receiving prescriptions for different types of SSRI and COC were calculated stratified by calendar year, and for SSRI's the daily dose prescribed was also tabulated

Stata 13 was used in the management and analysis of all data.

Results

There were 2,860,143 eligible women contributing 12.6 million person years (PY) of data. Of these, there were 42,754 individuals with a first PMS event recorded providing an overall rate of recording of 3.38 PMS records per 1,000 PY (CI95 3.35 - 3.41).

The rate of PMS recording decreased dramatically over time from 8.43/1,000 PY (CI95 8.02-8.85) in 1995 to 1.72/1,000 PY (CI95 1.63-1.81) in 2013 (Figure 1). The decrease was relatively rapid between 1995 and 2000, levelled off between 1999 and 2000 and then began to decrease again after to 2000.

The rate of recording of PMS diagnoses increased by age from 1.21/1,000 PY (CI95 1.13 - 1.28) in those aged between 11 and 14 years to 5.61/1,000 PY (CI95 5.50 - 5.71) in those aged 35-40 years at which point the rate peaked and began to fall again reaching 2.07/1,000 PY (CI95 2.00 - 2.13) in those aged 45-50 years (Table 1).

Ten percent of women received a prescription for one of the drugs of interest in the 6 months before their first PMS record. Prevalent treatment remained relatively stable across the study period for all drug categories other than COC's. The proportion of women with a COC prescription in the 6 months before their PMS record was 9% (141/1567) in 1995 but decreased to between 2% and 5% between 1996 and 2011 (Table S1).

Fifty four percent of women (20,996/38,614) without a given prescription in the 6 months before their PMS record had a prescription of interest on the day of diagnosis. While the overall proportion receiving a prescription of interest remained stable over time the proportions initiating specific drug types changed (Figure 2). The proportion of women initiating SSRI's has increased from 2.3% (35/1522) to 27.6% (381/1380), POC's from 1.1% (17/1545) to 6.2% (87/1403) and COC's from 10.6% (151/1425) to 17.2% (239/1390) over the study period (Figure 2a). In contrast the proportion initiating progestogen has declined from 22.8% (350/1535) to 2.9% (41/1414), oestrogen from 2.1% (32/1524) to 0.6% (8/1333) and vitamin B6 from 20.0% (310/1550) to 3.7% (52/1405) (Figure 2b). Prescribing of GnRH analogues and danazol on the day of a PMS record was too low (<1%) to observe trends over time.

Seventy seven percent of women (29,891/38,614) had a prescription of interest on the day of their PMS record or in the 24 months after, this proportion remained stable over time. Figure 3 shows the cumulative proportion of prescriptions in the 24 months following the first PMS record between 2008 and 2011 for each drug type. With the exception of Vitamin B6, the proportion of women with a prescription in this time period increased considerably over the 24 months for all drug types such that by 24 months 44% (3,648/8,365) had received a SSRI prescription, 28% (2,363/8,434) a COC prescription, 12% (1,030/8,475) a progestogen prescription, 20% (1,727/8,463) a POC prescription and 3% (293/8557) an oestrogen prescription.

The type of SSRI prescribed on the day of the first PMS record is shown in Figure 4 as a proportion of all SSRI prescriptions. Fluoxetine is the most prescribed SSRI throughout the study period, making up more than 50% of SSRI prescriptions. Citalopram and, more recently, sertraline make up an increasing proportion of SSRI prescriptions over time, while paroxetine and escitalopram make up a decreasing proportion. The dose of SSRI prescribed per day is shown in Table 2 and is primarily 10 or 20mg for citalopram, 5, 10 or 20mg for escitalopram, 10mg for fluoxetine, 10, 20 or 30mg for paroxetine and 50 or 100mg for sertraline.

Discussion

Summary

Recording of PMS diagnoses in UK primary care decreased substantially between 1995 and 2013 and among those women with a PMS record, the preferred treatment has changed from progestogen to selective serotonin reuptake inhibitors and combined oral contraceptives.

Diagnoses

The main limitation of this study relates to the completeness of recording of PMS diagnoses. GPs may record the symptoms of a woman presenting with PMS, but not record a specific PMS diagnosis code. As a result, rates reported in this study represent the number of *recorded* diagnoses, and are unlikely to reflect the 'true' incidence of PMS in the community. As the prevalence of 'true' diagnoses of PMS reported in prospective studies has not decreased over time²⁰, we suspect that the decrease in recording of PMS in primary care is likely to result from factors that influence the rate of consultations for premenstrual symptoms or recording practices such as changes in the perception of the syndrome by women and/or healthcare professionals.

Wyatt *et al*²¹ and Weisz and Knaapen²² investigated PMS recording in UK primary care from 1993 to 1998 and 2004 to 2006, respectively. Direct comparison of our results with these two studies is not possible as the two previous studies used the total number of primary care consultations as the denominator for their recording rates. However, similar to our study, these two studies found that, relative to the prevalence of premenstrual symptoms reported in the literature, PMS diagnoses did not appear to be commonly recorded in UK primary care. The studies by Wyatt *et al*²¹ and Weisz and Knaapen²² also reported a decrease in recording rates over time, our results support these findings and illustrate that rates have continued to decrease to 2013.

Prescribing

As prescriptions in THIN are not specifically linked to an indication we cannot be certain that prescriptions issued after, or even on the date of the PMS record were issued for the treatment of PMS. However, prescriptions issued on the date of a PMS record and not during the prior 6 months are likely to be specific to the treatment of PMS. While prescriptions issued over the 24 months after a PMS record are increasingly likely to be for indications other than PMS, delays between the first PMS record and initiation of pharmacological treatment may arise due to the completion of symptom diaries or initiation of non-pharmacological treatments as a first line approach. As a result, the total proportion of women prescribed a pharmacological treatment in primary care after a PMS diagnosis should lie somewhere between the proportion with a prescription on the date of their PMS record (54%) and the proportion with a prescription in the 24 months after their PMS record (77%). If one assumes that women with a PMS record in our study are primarily those with moderate to severe symptoms, the above proportions compare with 40% of women in the UK, 44% of women in the USA and 25% of women in France with self-reported moderate to severe symptoms on prescription treatment in 1998.⁴

The changes in prescribing from 1995 to 1998 compare favourably with those reported by Wyatt et al²¹ for this period. Weisz and Knaapen²² reported stable proportions of prescriptions for different drug types in the UK over their 3 year study period (2004-2006); taken in isolation our data for the

same period also appear relatively stable. Our study, however, by covering a longer period allowed better observation of the changes in the type of PMS treatment prescribed over time with SSRI's and COC's superseding progestogen and oestrogen as the preferred treatments for PMS in primary care after 1999. The increasing use of SSRI's and decreasing use of progestogen in primary care is largely in line with the evolving evidence base for PMS treatments with a number of meta analyses and guidelines supporting the effectiveness of SSRI's. 6,7 and questioning the effectiveness of progestogens^{6,8}. The increased prescribing of COC's is somewhat surprising given the limited evidence supporting their efficacy in the treatment of PMS. 9,23,24 The limited evidence supporting the efficacy of oestrogen treatment for PMS^{25,26} and concerns surrounding its safety may explain the considerable decline in its use in the treatment of PMS. Notably, while concomitant progestogen treatment can mitigate some of the risk associated with oestrogen based therapy, PMS symptoms produced by the progestogens limit the efficacy of combined oestrogen-progestogen therapy as a treatment for PMS. The preference for COC's over oestrogen therapy may reflect GP's greater familiarity with COC"s relative to transdermal oestrogen therapy. Notably, as our data do not include gynaecologist and psychiatrist prescribing the results cannot be generalised to changes in prescribing practices within such specialities.

As pointed out by Wyatt et al.²¹, the decrease in Vitamin B6 use in 1998 and 1999 is likely to have resulted from the discovery that high doses might result in peripheral neuropathy and subsequent proposals to restrict access to the drug. Our data confirm that Vitamin B6 prescribing has continued to decrease slightly since 1998. However, as Vitamin B6 is also sold over-the-counter (OTC) this decrease in use may result from an increase in the consumption of OTC Vitamin B6. As Danazol and GnRH analogues are not typically used as first or second line treatment it is unsurprising that few women are prescribed these drugs in the 24 months after their first PMS record.

The increasing proportion of SSRI prescriptions for citalopram and sertraline, decreasing proportion for paroxetine and escitalopram and stable proportion for fluoxetine are in line with trends in the use of SSRI's in general in the UK.²⁷ However, in the general population, the rate of initiation of citalopram is now greater than fluoxetine whereas in our study fluoxetine remains the treatment most commonly initiated on the day of a PMS record.²⁷ This difference may reflect the larger evidence base for the use of fluoxetine for the treatment of premenstrual syndrome, with a recent meta-analysis⁷ and systematic review⁶ including six to ten studies on fluoxetine but only one on citalopram. The doses of each SSRI prescribed were largely in line with the recommended dose for the treatment of depression in the UK.²⁸ Unfortunately no information was available on the dosing schedule for SSRI's (continuous vs luteal phase only) or COC's (cyclical vs. continuous).

We were unable to investigate the prevalence of use of non-prescription medications, dietary supplements, complementary and alternative therapies and lifestyle/behaviour changes in the treatment of PMS in this study. While few data on trends in the use of these therapies for PMS have been published, increases in the use of these treatment options may have contributed to the reduction in the use of some of the prescription medications observed in this study. Additionally, the increased use of such therapies may lead women not to consult GPs, thereby contributing to the decreased rate of PMS diagnoses recorded in primary care.

Conclusions

The recording of PMS diagnoses in UK primary care has declined between 1995 and 2013. Further work is needed to establish whether this is due to decreased recording of PMS diagnoses in the records of women with premenstrual symptoms or whether it is due to a decrease in the number of women presenting in primary care with premenstrual symptoms. If the former is true, future research might investigate how the perception of PMS among GPs has changed, while if the latter is true future research might focus on how the perception of PMS among women has changed and whether the use and/or efficacy of non-prescription therapies for PMS has influenced women's healthcare seeking behaviour. Changes in the preferred prescription treatment for PMS in primary care, from progestogens to SSRI's and COC's, are largely in line with current evidence and guidelines.

Contributions CS had the original idea for the study. CS, IN and IP designed the study. CS performed the analysis. CS, IN and IP interpreted the results. CS drafted the manuscript. IP and IN revised it critically for important intellectual content. CS, IN and IP approved the final version to be published.

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Competing interests: We have read and understood BMJ policy on declaration of interests and declare that we have no competing interests.

Ethics: THIN has overall ethical approval from the South East Multicentre Research Ethics Committee (reference number: 07/H1102/103).

Data sharing statement: No additional data are available.

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Table 1. Age specific rates (per 1,000 person years) of first PMS records in UK general practice

Age (years)	N	IR	Cl ₉₅
12-14	1056	1.21	(1.14 - 1.28)
15-19	1975	1.50	(1.43 - 1.57)
20-24	2475	1.80	(1.73 - 1.87)
25-29	5165	3.28	(3.19 - 3.37)
30-34	8947	5.04	(4.94 - 5.15)
35-39	10768	5.61	(5.50 - 5.71)
40-44	8540	4.39	(4.30 - 4.49)
45-49	3808	2.07	(2.00 - 2.13)

Table 2 Type and daily dose of SSRI prescribed on the day of a PMS record

Table 2 Typ	Table 2 Type and daily dose of SSRI prescribed on the day of a PIVIS record									
Daily dose	Citalo	pram	Escita	lopram	Fluox	etine	Paro	xetine	Sert	traline
(mg)	n	%	n	%	n	%	n	%	n	%
5	0	(0)	27	(15.7)	0	(0)	0	(0)	0	(0)
7.5	1	(0.1)	0	(0)	0	(0)	0	(0)	0	(0)
10	452	(30.4)	80	(46.5)	16	(0.3)	26	(4.9)	0	(0)
15	4	(0.3)	0	(0)	0	(0)	1	(0.2)	0	(0)
20	501	(33.7)	18	(10.5)	3,880	(79.5)	356	(67.6)	0	(0)
25	0	(0)	0	(0)	0	(0)	0	(0)	3	(0.6)
30	3	(0.2)	0	(0)	3	(0.1)	47	(8.9)	0	(0)
40	67	(4.5)	0	(0)	81	(1.7)	16	(3)	0	(0)
45	0	(0)	0	(0)	0	(0)	1	(0.2)	0	(0)
50	0	(0)	0	(0)	0	(0)	0	(0)	333	(62.6)
60	1	(0.1)	0	(0)	15	(0.3)	1	(0.2)	0	(0)
75	0	(0)	0	(0)	0	(0)	0	(0)	4	(0.8)
100	0	(0)	0	(0)	0	(0)	0	(0)	40	(7.5)
200	0	(0)	0	(0)	0	(0)	0	(0)	5	(0.9)
Unknown	458	(30.8)	47	(27.3)	883	(18.1)	79	(15)	147	(27.6)
Total	1,487	(100)	172	(100)	4,878	(100)	527	(100)	532	(100)

^{*}Fluvoxamine prescriptions (n=4) not shown

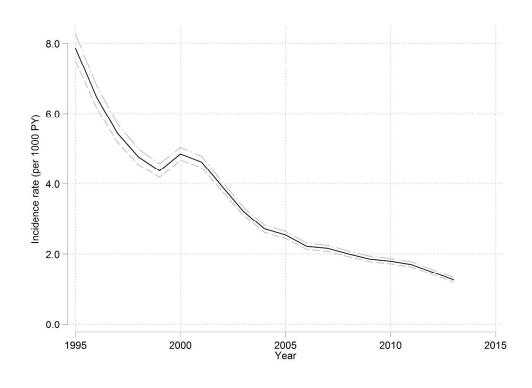


Figure 1 Calendar year specific rates (per 1,000 person years) of first PMS records in UK general practice. $338x246mm (300 \times 300 DPI)$

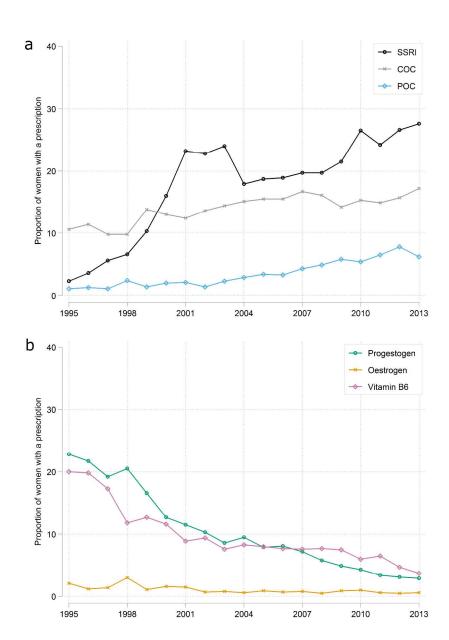


Figure 2 Calendar year specific proportion of women without a given prescription in the 6 months before their PMS record who had (a) an SSRI, COC or POC prescription or (b) a progestogen, oestrogen or vitamin B6 prescription on the day of their first PMS record.

338x490mm (300 x 300 DPI)

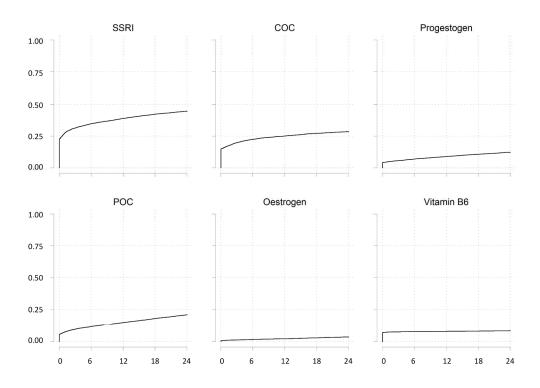


Figure 3. Cumulative incidence of prescriptions in the 2 years following a PMS diagnosis record for the period 2008 to 2011. 254x190mm~(300~x~300~DPI)

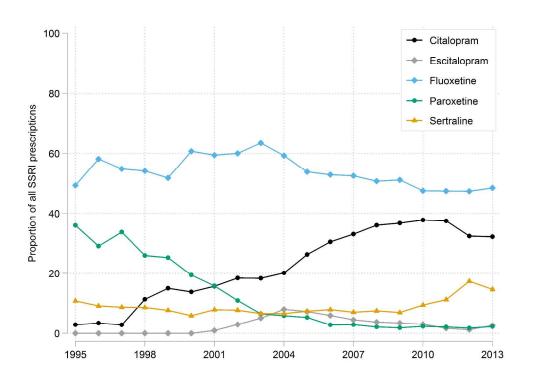


Figure 4 Type of SSRI prescribed on the day of the first PMS record over time, as a proportion of all SSRI prescriptions. $338 \times 246 \text{mm} (300 \times 300 \text{ DPI})$

Table S1 List of diagnostic codes included in the study.

Read code	Description
Eu3y200	[X]*Premenstrual dysphoric disorder
K584.00	Premenstrual tension syndrome

^{*[}X] implies a code cross references to a specific ICD10 code

Table S2 List of drugs included in the prescription analysis, by drug category.

BNF code	Drug name	Category
09.06.02.00	Pyridoxine 50mg capsule	Vitamin B6
09.06.02.00	Pyridoxine 10mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 20mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 10mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 100mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 50mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 50mg tablets	Vitamin B6
09.06.02.00	VITAMIN B 6 100 MG TAB	Vitamin B6
09.06.02.00	PYRIDOXINE 50 MG INJ	Vitamin B6
09.06.02.00	Vitamin b compound strong syrup	Vitamin B6
09.06.02.00	Pyridoxine 50mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 20mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 50mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 20mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 50mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 10mg tablets	Vitamin B6
09.06.02.00	PYRIDOXINE 20mg tablets	Vitamin B6
09.06.02.00	PYRIDOXINE HCL 100mg m/r tabs	Vitamin B6
09.06.02.00	Pyridoxine 50mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 10mg tablets	Vitamin B6
09.06.02.00	Pyridoxine 20mg tablets	Vitamin B6
09.06.02.00	VITAMIN B 6 50 MG TAB	Vitamin B6
09.06.02.00	Pyridoxine 100mg modified release tablet	Vitamin B6
09.06.02.00	Pyridoxine 10mg tablets	Vitamin B6
09.06.02.00	PYRIDOXINE 50mg tablets	Vitamin B6
06.07.02.00	Danazol 200mg capsules	Danazol
06.07.02.00	Danazol 200mg capsules	Danazol
06.07.02.00	Danazol 200mg capsules	Danazol
06.07.02.00	Danazol 100mg capsules	Danazol
06.07.02.00	DANAZOL 100mg capsules	Danazol
06.07.02.00	DANAZOL 200mg capsules	Danazol
06.07.02.00	Danazol 100mg capsules	Danazol
06.07.02.00	Nafarelin 200micrograms/dose nasal spray	Gonadotrophins
06.07.02.00	NAFARELIN NASAL 2 MG/ML SPR	Gonadotrophins
06.07.02.00	NAFARELIN 200mcg nasal spray	Gonadotrophins
	· ,	

	Leuprorelin 3.75mg Powder for solution for	
08.03.04.02	injection	Gonadotrophins
08.03.04.02	Cyproterone 100mg tablets	Gonadotrophins
08.03.04.02	CYPROTERONE ACETATE 100mg tabs	Gonadotrophins
	Leuprorelin 3.75mg powder and solvent for	
08.03.04.02	suspension for injection pre-filled syringes	Gonadotrophins
08.03.04.02	BUSERELIN 5.5mg/5.5mL inj	Gonadotrophins
08.03.04.02	GOSERELIN 3.6mg implant	Gonadotrophins
08.03.04.02	Flutamide 250mg tablets	Gonadotrophins
08.03.04.02	Cyproterone 100mg tablets	Gonadotrophins
	Leuprorelin 3.75mg powder and solvent for	
08.03.04.02	suspension for injection vials	Gonadotrophins
08.03.04.02	LEUPRORELN ACETATE 11.25mg inj	Gonadotrophins
08.03.04.02	Flutamide 250mg tablets	Gonadotrophins
08.03.04.02	Buserelin 100micrograms/dose nasal spray	Gonadotrophins
00.00.00.00	Leuprorelin 11.25mg powder and solvent for	
08.03.04.02	suspension for injection pre-filled syringes	Gonadotrophins
08.03.04.02	Cyproterone 50mg tablets	Gonadotrophins
08.03.04.02	LEUPRORELIN ACETATE 3.75mg inj	Gonadotrophins
08.03.04.02	Flutamide 250mg tablets	Gonadotrophins
08.03.04.02	GOSERELIN 10.8mg implant	Gonadotrophins
08.03.04.02	LEUPRORELIN ACET 11.25mg inj	Gonadotrophins
08.03.04.02	LEUPRORELIN 3.75mg injection	Gonadotrophins
08.03.04.02	FLUTAMIDE 250mg tablets	Gonadotrophins
08.03.04.02	BUSERELIN 100mcg nasal spray	Gonadotrophins
08.03.04.02	BICALUTAMIDE 50mg tablets	Gonadotrophins
08.03.04.02	Cyproterone 50mg tablets	Gonadotrophins
08.03.04.02	BICALUTAMIDE 150mg tablets	Gonadotrophins
08.03.04.02	Flutamide 250mg tablets	Gonadotrophins
08.03.04.02	GOSERELIN 3.6mg implant	Gonadotrophins
08.03.04.02	FLUTAMIDE 250mg tablets	Gonadotrophins
08.03.04.02	CYPROTERONE 50mg tablets	Gonadotrophins
08.03.04.02	CYPROTERONE 50mg tablets	Gonadotrophins
08.03.04.02	CYPROTERONE ACETATE 100mg tabs	Gonadotrophins
08.03.04.02	Bicalutamide 50mg tablets	Gonadotrophins
08.03.04.02	Bicalutamide 50mg tablets	Gonadotrophins
08.03.04.02	Cyproterone 50mg tablets	Gonadotrophins
08.03.04.02	GOSERELIN 10.8mg implant	Gonadotrophins
08.03.04.02	LEUPRORELIN ACETATE 3.75mg inj	Gonadotrophins
	Leuprorelin 11.25mg Powder for solution for	
08.03.04.02	injection	Gonadotrophins
08.03.04.02	Bicalutamide 150mg tablets	Gonadotrophins
08.03.04.02	Goserelin 10.8mg implant pre-filled syringes	Gonadotrophins
08.03.04.02	Cyproterone 50mg tablets	Gonadotrophins
08.03.04.02	Cyproterone 100mg tablets	Gonadotrophins
08.03.04.02	Leuprorelin 11.25mg powder and solvent for	Gonadotrophins

	suspension for injection vials	
08.03.04.02	Goserelin 3.6mg implant pre-filled syringes	Gonadotrophins
08.03.04.02	Cyproterone 50mg tablets	Gonadotrophins
08.03.04.02	Abiraterone 250mg tablets	Gonadotrophins
08.03.04.02	Buserelin 5.5mg/5.5ml solution for injection vials	Gonadotrophins
08.03.04.02	Histrelin 50mg implant with device	Gonadotrophins
06.04.02.00	CYPROTERONE ACETATE 50mg tabs	Gonadotrophins
00.04.02.00	Triptorelin acetate 3.75mg powder and solvent for	Conadotrophins
	suspension for injection pre-filled disposable	
06.07.02.00	devices	Gonadotrophins
	Triptorelin acetate 11.25mg powder and solvent	
06.07.02.00	for suspension for injection vials	Gonadotrophins
06.07.02.00	TRIPTORELIN 3.75mg inj syringe	Gonadotrophins
06.07.02.00	TRIPTORELIN 22.5mg inj pdr	Gonadotrophins
06.07.02.00	TRIPTORELIN 11.25mg injection	Gonadotrophins
06.07.02.00	TRIPTORELIN 11.25mg inj powder	Gonadotrophins
	Triptorelin embonate 11.25mg powder and solvent	
06.07.02.00	for suspension for injection vials	Gonadotrophins
06.07.02.00	Buserelin 150micrograms/dose nasal spray	Gonadotrophins
06.07.02.00	Triptorelin acetate 3mg powder and solvent for	Gonadotrophins
06.07.02.00	suspension for injection vials TRIPTORELIN 3mg inj powder	Gonadotrophins
06.07.02.00	Buserelin 150micrograms spray	Gonadotrophins
00.07.02.00	Triptorelin embonate 22.5mg powder and solvent	Gonadotrophins
06.07.02.00	for suspension for injection vials	Gonadotrophins
06.07.02.00	BUSERELIN 5.5mg/5.5mL inj	Gonadotrophins
06.04.01.01	Estradiol acetate 1.25mg vaginal ring	Oestrogen
06.04.01.01	ESTRADIOL 0.5mg/dose gel	Oestrogen
06.04.01.01	Estradiol 25mg implant	Oestrogen
06.04.01.01	ESTRADIOL 80mcg patches	Oestrogen
	CONJUGATED OESTROGENS 625/NORGESTREL 500	
06.04.01.01	MCG TAB	Oestrogen
06.04.01.01	PIPERAZINE ESTRONE 1.5mg tabs	Oestrogen
06.04.01.01	ESTRADIOL 100mcg patches	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	Ethinylestradiol 10microgram tablets	Oestrogen
	Estradiol and (estradiol with levonorgestrel)	
00 04 04 04	50mcg/24hrs with (50mcg+10mcg/24hrs) once	Contracts
06.04.01.01	weekly patch	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	ESTRADIOL 75micrograms patches	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol with estrone and estriol tablets	Oestrogen
06.04.01.01	ESTRADIOL VALEDATE 4 control land	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 1mg tablets	Oestrogen
06.04.01.01	OESTRADIOL 1 MG TAB	Oestrogen

06.04.01.01	Estradiol 75micrograms/24hr twice weekly patch	Oestrogen
	Estradiol 100micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr once weekly patch	Oestrogen
	Estradiol 25micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 100mg implant	Oestrogen
	Estradiol 100micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
00.04.04.04	Estradiol 100micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
06.04.01.01	ESTRADIOL 100mcg patches	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	ESTRADIOL 100mcg patches	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 2mg tablets	Oestrogen
06.04.01.01	ESTRIOL 250mcg tablets	Oestrogen
06.04.01.01	ESTRADIOL 1mg/dose gel	Oestrogen
	Ethinylestradiol with methyltestosterone	
06.04.01.01	4.4micrograms + 3.6mg Tablet	Oestrogen
06.04.01.01	OESTRADIOL SKIN PATCHES 50MCG	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr once weekly patch	Oestrogen
06.04.01.01	TRANSDERMAL OESTRADIOL 50 MCG	Oestrogen
06.04.01.01	ESTRADIOL 100mcg patches	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr once weekly patch	Oestrogen
06.04.01.01	Ethinylestradiol 50microgram tablets	Oestrogen
06.04.01.01	ESTRADIOL 75micrograms patches	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 30 MCG TAB	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr twice weekly patch	Oestrogen
	Estradiol 25micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
06.04.01.01	Dienestrol 5mg tablets	Oestrogen
	Estradiol valerate and (estradiol valerate with	
06.04.04.04	levonorgestrel) 1mg with (1mg with	0.00
06.04.01.01	250micrograms) tablets	Oestrogen
06.04.01.01	Estradiol 75micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol 75micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 1mg tablets	Oestrogen
06.04.01.01	ESTRADIOL 100mcg patches	Oestrogen
06.04.04.04	Estradiol 100micrograms/24hours transdermal	O and a second
06.04.01.01	patches Conjugated oestrogens 1.25mg tablets and	Oestrogen
06.04.01.01	Norgestrel 150microgram tablets	Oestrogen
00.04.01.01	Estradiol 25micrograms/24hours transdermal	OCSHOBEH
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Ethinylestradiol 10microgram tablets	Oestrogen
00.04.01.01	Ethinylestradior formerogram tablets	Ocottogen

06.04.01.01	ESTRADIOL 75micrograms patches	Oestrogen
06.04.01.01	Estradiol 50mg implant	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Conjugated oestrogens 1.25mg tablets	Oestrogen
	Estradiol 50micrograms/24hours / Levonorgestrel	
06.04.01.01	7micrograms/24hours transdermal patches	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 2mg tablets	Oestrogen
06.04.01.01	Ethinylestradiol 50microgram tablets	Oestrogen
06.04.01.01	Generic Estracombi TTS transdermal patches	Oestrogen
06.04.01.01	ESTRADIOL 40micrograms patches	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 2mg tablets	Oestrogen
06.04.01.01	Estradiol 37.5micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol 1mg/ml injection	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol 500microgram gel sachets	Oestrogen
06.04.01.01	QUINESTRADOL 250mcg tablets	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 25 MCG TAB	Oestrogen
06.04.01.01	Dienestrol 1mg tablets	Oestrogen
06.04.01.01	Estradiol 40micrograms/24 hourspatch	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estropipate 1.5mg tablets	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol valerate 2mg tablets	Oestrogen
	Estradiol 50micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 1mg tablets	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 1mg tablets	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	ESTRADIOL HEMIHYD 150mcg spra	Oestrogen
06.04.01.01	Generic Hormonin tablets	Oestrogen
06.04.01.01	CONJ OESTROGENS 2.5mg tablets	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr once weekly patch	Oestrogen
00 04 04 04	Estradiol 50micrograms/24hours transdermal	O. Marian
06.04.01.01	patches	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	OESTRADIOL 17B	Oestrogen
06.04.01.01	Ethinylestradiol 20micrograms Tablet	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr once weekly patch	Oestrogen
06.04.01.01	ETHISTERONE 5 MG TAB	Oestrogen
06.04.01.01	Chlorotrianisene	Oestrogen
06.04.01.01	Estradiol 75micrograms/24hours transdermal patches	Oestrogen
06.04.01.01	ESTRADIOL 37.5micrograms patch	Oestrogen
		Oestrogen
06.04.01.01	OESTRADIOL 50 MG TAB	Oestrogen

		1
06.04.01.01	ESTRADIOL 25micrograms patches	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr once weekly patch	Oestrogen
	Estradiol 80micrograms/24hours transdermal	_
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	ESTRADIOL 1mg/dose gel	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 1mg tablets	Oestrogen
06.04.01.01	ESTRADIOL 100mcg patches	Oestrogen
06.04.01.01	ESTRADIOL 80mcg patches	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.04.04	Estradiol 25micrograms/24hours transdermal	200100000
06.04.01.01	patches	Oestrogen
06.04.01.01	Estriol 1mg tablets	Oestrogen
06.04.01.01	ESTRADIOL 25micrograms patches	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	Ethinylestradiol 2microgram tablets	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 1mg tablets	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 100 MCG TAB	Oestrogen
06.04.01.01	Estradiol 1mg gel sachets	Oestrogen
06.04.01.01	ESTRADIOL 40micrograms patches	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 2mg tablets	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr once weekly patch	Oestrogen
06.04.01.01	ESTRADIOL 50mcg/24hours ring	Oestrogen
06.04.01.01	Conjugated oestrogens 300microgram tablets	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 2mg tablets	Oestrogen
06.04.01.01	Conjugated oestrogens 2.5mg tablets	Oestrogen
06.04.01.01	ESTRADIOL 75micrograms patches	Oestrogen
06.04.01.01	Estradiol 2mg tablets	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 2mg tablets	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr twice weekly patch	Oestrogen
	Conjugated oestrogens equine with	
	medroxyprogesterone acetate 625micrograms	
06.04.01.01	with 10mg tablets	Oestrogen
06.04.01.01	OESTRADIOL .01 MG TAB	Oestrogen
06.04.01.01	Ethinylestradiol 1mg tablets	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol valerate 1mg tablets	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	Conjugated oestrogens 625microgram tablets and Norgestrel 150microgram tablets	Oestrogen
06.04.01.01	OESTRADIOL 1.25g/dose gel	Oestrogen
06.04.01.01	ESTRADIOL 25micrograms patches	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hours transdermal patches	Oestrogen

06.04.01.01	ESTRADIOL 37.5micrograms patch	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	ESTRADIOL 75micrograms patches	Oestrogen
06.04.01.01	Estradiol 50micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	CONJUGATED OESTROGENS / NORGESTREL 1.25 MG TAB	Oestrogen
06.04.01.01	Estradiol 100micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	Estradiol 50mg implant	Oestrogen
00.01.01.01	Estradiol 25micrograms/24hours transdermal	Cestrogen
06.04.01.01	patches	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 2 MCG TAB	Oestrogen
06.04.01.01	Estradio; 5m/ml injection	Oestrogen
06.04.01.01	ESTRADIOL 25micrograms patches	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr once weekly patch	Oestrogen
06.04.01.01	Estradiol 75micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 5 MG TAB	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 2mg tablets	Oestrogen
06.04.01.01	ESTRADIOL VALERATE 1mg tablets	Oestrogen
00:01:01:01	Estradiol 75micrograms/24hours transdermal	- Cestrogen
06.04.01.01	patches	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	Estradiol 75micrograms/24hr once weekly patch	Oestrogen
06.04.01.01	PREMARIN 1.25MG/NORGESTREL 0.15MG MG TAB	Oestrogen
	Estradiol and (estradiol with levonorgestrel)	
	80mcg/24hrs with (50mcg+20mcg/24hr) twice	
06.04.01.01	weekly patch	Oestrogen
06.04.01.01	Estriol 250micrograms tablets	Oestrogen
06.04.01.01	ESTRIOL 1mg tablets	Oestrogen
	Estradiol 40micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 0.06% gel	Oestrogen
06.04.01.01	Estradiol with estrone and estriol tablets	Oestrogen
06.04.01.01	Estradiol 75micrograms/24hr twice weekly patch	Oestrogen
06.04.04.04	Estradiol 37.5micrograms/24hours transdermal	Ocahan
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 25micrograms/24hr twice weekly patch	Oestrogen
06.04.01.01	ESTRADIOL 50micrograms patches	Oestrogen
06.04.01.01	ESTRADIOL 100mcg patches	Oestrogen
06.04.01.01	ESTRADIOL 25micrograms patches	Oestrogen
06.04.01.01	Estradiol 0.1% gel	Oestrogen
06.04.01.01	ESTRADIOL 0.06% gel	Oestrogen
06.04.01.01	PREMPAK 1.25MG MG TAB	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 5 MCG CAP	Oestrogen
06.04.01.01	Conjugated oestrogens 625microgram tablets	Oestrogen
06.04.01.01	Estradiol 1mg / Dydrogesterone 5mg tablets	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 20 MCG PES	Oestrogen

	Estradiol 25micrograms/24hours transdermal	
06.04.01.01	patches	Oestrogen
06.04.01.01	Estradiol 150micrograms/dose nasal spray	Oestrogen
06.04.01.01	CONJ OESTROGENS 1.25mg tablets	Oestrogen
06.04.01.01	ESTRIOL 250mcg tablets	Oestrogen
06.04.01.01	CONJ OESTROGENS 300mcg tablets	Oestrogen
06.04.01.01	ETHINYLOESTRADIOL 15 MCG TAB	Oestrogen
06.04.01.01		
06.04.01.01	CONJ OESTROGENS 625mcg tablets Estradiol with (estradiol with norethisterone	Oestrogen
	acetate) 50mcg/24 hr with (50mcg+250mcg/24 hr)	
06.04.01.01	twice weekly patch	Oestrogen
	Estradiol valerate 1mg / Medroxyprogesterone	
06.04.01.01	5mg tablets	Oestrogen
	Conjugated oestrogens 625microgram tablets and	
06.04.01.01	Norgestrel 150microgram tablets	Oestrogen
	Estradiol 50micrograms/24hours / Norethisterone	
06.04.01.01	170micrograms/24hours transdermal patches	Oestrogen
0000000	Estradiol 50micrograms/24hours / Norethisterone	
06.04.01.01	170micrograms/24hours transdermal patches	Oestrogen
06.04.01.01	Generic Clinorette tablets	Oestrogen
06.04.01.01	Generic Trisequens tablets	Oestrogen
06.04.04.04	Estradiol with (estradiol with norethisterone	2
06.04.01.01	acetate) 1mg with (1mg with 1mg) tablets	Oestrogen
	Estradiol valerate and (estradiol valerate with levonorgestrel) 2mg with (2mg with 75micrograms)	
06.04.01.01	tablets	Oestrogen
00:0:::02::02	Conjugated oestrogens 300microgram /	03311 08311
	Medroxyprogesterone 1.5mg modified-release	
06.04.01.01	tablets	Oestrogen
	Estradiol 50micrograms/24hours transdermal	
06.04.01.01	patches and Norethisterone acetate 1mg tablets	Oestrogen
06.04.01.01	Estradiol 1mg / Drospirenone 2mg tablets	Oestrogen
	Estradiol 50micrograms/24hours / Norethisterone	
06.04.01.01	170micrograms/24hours transdermal patches	Oestrogen
06.04.01.01	Generic Climagest 1mg tablets	Oestrogen
06.04.01.01	ESTRADI+NORETHIS 2/0.7mg tabs	Oestrogen
00.04.04.04	Estradiol 80micrograms/24hours transdermal	
06.04.01.01	patches and Dydrogesterone 10mg tablets	Oestrogen
06.04.01.01	Generic Nuvelle TS transdermal patches	Oestrogen
06.04.01.01	Generic Novofem tablets	Oestrogen
06.04.04.04	Estradiol valerate 1mg / Medroxyprogesterone	Cooting and
06.04.01.01	5mg tablets Estradiol 80micrograms/24hours transdermal	Oestrogen
06.04.01.01	patches and Dydrogesterone 10mg tablets	Oestrogen
06.04.01.01	ESTRADIOL+NORETHIS 2/1mg tables	Oestrogen
06.04.01.01	Generic Climagest 1mg tablets Estradiol valerate and (estradiol valerate with	Oestrogen
1		
06.04.01.01	norethisterone) 1mg with (1mg with 1mg) tablets	Oestrogen

Estradiol valerate and (estradiol valerate with medroxyprogesterone acetate) with placebo 2mg with (2mg with 20mg) with (2mg with 1mg) tablets	06.04.01.01	Generic Nuvelle tablets	Oestrogen
06.04.01.01 with (2mg with 20mg) with Oestrogen 06.04.01.01 Generic Nuvelle tablets Oestrogen 06.04.01.01 Orgestrel 150microgram tablets Oestrogen 06.04.01.01 Generic Tridestra tablets Oestrogen 06.04.01.01 Generic Tridestra tablets Oestrogen 06.04.01.01 Generic Evorel Sequi transdermal patches Oestrogen 06.04.01.01 Somicrograms + 1.25mg Tablet Oestrogen 06.04.01.01 Combierate and (estradiol valerate with norgestrel) 2mg with (2mg with 500micrograms) 06.04.01.01 Combierate and (estradiol valerate with norgestrel) 2mg with 0.7mg tablets Oestrogen 06.04.01.01 Combieration 2mg with 0.7mg tablets Oestrogen 06.04.01.01 Combieration 2mg with 0.7mg tablets Oestrogen 06.04.01.01 Combieration 2mg with 0.7mg tablets Oestrogen 06.04.01.01 Seneric Cyclo-Progynova 2mg tablets Oestrogen 06.04.01.01 Seneric Cyclo-Progynova 2mg tablets Oestrogen 06.04.01.01 Estradiol with (estradiol with norethisterone acetate) 50mcg/24 hr with (50mcg+170mcg/24 hr) twice weekly patch Oestrogen 06.04.01.01 Estradiol and (estradiol with norethisterone) and (estradiol) 2mg with (2mg with 1mg) tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with norethisterone) and (estradiol) with rorethisterone 06.04.01.01 Estradiol and (estradiol with morethisterone) 2mg with (2mg with 10 mg) tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with orethisterone) 2mg with (2mg with 10 mg) tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with norethisterone) 2mg with (2mg with 10 mg) tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with norethisterone) 2mg with (2mg with 10 mg) tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with norethisterone) 2mg with (2mg with 10 mg) tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with norethisterone) 2mg oestrogen Oestrogen Oestrogen Oestrogen Oestrogen Oestrogen Oestrogen Oestrogen Oestr		Estradiol valerate and (estradiol valerate with	
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Conjugated oestrogens 1.25mg tablets and Norgestrel 150microgram tablets Oestrogen	06.04.01.01	with (2mg with 20mg) with	Oestrogen
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06.04.01.01 Generic Tridestra tablets Oestrogen 06.04.01.01 ESTRADIO+NORETHIS 1/0.5mg tabs Oestrogen 06.04.01.01 Generic Evorel Sequi transdermal patches Norgestrel and conjugated oestrogens (equine) 06.04.01.01 150micrograms + 1.25mg Tablet Oestrogen Estradiol valerate and (estradiol valerate with norgestrel) 2mg with (2mg with 500micrograms) 06.04.01.01 tablets Oestrogen Estradiol with norethisterone acetate (continuous combined) 2mg with 0.7mg tablets Oestrogen 06.04.01.01 CONJ OEST 0.625mg/MPA 5mg tabs Oestrogen 06.04.01.01 Generic Cyclo-Progynova 2mg tablets Oestrogen 06.04.01.01 Norgestrel 150microgram tablets Oestrogen 06.04.01.01 Norgestrel 150microgram tablets Oestrogen 06.04.01.01 Norgestrel 150microgram tablets Oestrogen 06.04.01.01 Estradiol with (estradiol with norethisterone acetate) 50mg/24 hr with 50mg+170mg/24 hr) 06.04.01.01 Estradiol 3mg with (2mg with 1mg) tablets Oestrogen 06.04.01.01 DROSPIR 2mg/ESTRADIOL 1mg tabs Oestrogen 06.04.01.01 DROSPIR 2mg/ESTRADIOL 1mg tabs Oestrogen 06.04.01.01 Estradiol and (estradiol with dydrogesterone) 2mg 06.04.01.01 Estradiol 40micrograms/24hours transdermal patches and Dydrogesterone 10mg tablets Oestrogen 06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Oestrogen 06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Oestrogen 06.04.01.01 Estradiol 40micrograms/24hours transdermal patches and Dydrogesterone 10mg tablets Oestrogen 06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Oestrogen 06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Oestrogen 06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Oestrogen 06.04.01.01 Estradiol 0mg (estradiol with norethisterone) and (estradiol with norethisterone) and (estradiol with norethisterone) and (estradiol with norethisterone) and (estradiol and (estradiol with norethisterone) and (estradiol of compressed to 1mg tablets Oestrogen 06.04.01.01 Estradiol 0mg / Dydrogesterone 5mg tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets			
06.04.01.01 ESTRADIO+NORETHIS 1/0.5mg tabs Oestrogen 06.04.01.01 Generic Evorel Sequi transdermal patches 06.04.01.01 150micrograms + 1.25mg Tablet Oestrogen 06.04.01.01 150micrograms + 1.25mg Tablet Oestrogen 06.04.01.01 tablets Oestrogen 06.04.01.01 combined) 2mg with (2mg with 500micrograms) 06.04.01.01 combined) 2mg with 0.7mg tablets Oestrogen 06.04.01.01 Generic Cyclo-Progynova 2mg tablets Oestrogen 06.04.01.01 Generic Cyclo-Progynova 2mg tablets Oestrogen 06.04.01.01 Generic Cyclo-Progynova 2mg tablets Oestrogen 06.04.01.01 Vivice weekly patch Oestrogen 06.04.01.01 (estradiol with norethisterone acetate) 50mcg/24 hr with (50mcg+170mcg/24 hr) 06.04.01.01 (estradiol) 2mg with 1.2mg with 1mg) tablets Oestrogen 06.04.01.01 (estradiol) 2mg with 1morethisterone) and 06.04.01.01 (estradiol) 2mg with 1mg) tablets Oestrogen 06.04.01.01 (estradiol) 2mg with 1mg) tablets Oestrogen 06.04.01.01 DROSPIR 2mg/ESTRADIOL 1mg tabs Oestrogen 06.04.01.01 DROSPIR 2mg/ESTRADIOL 1mg tabs Oestrogen 06.04.01.01 DROSPIR 2mg/ESTRADIOL 1mg tabs Oestrogen 06.04.01.01 Estradiol and (estradiol with dydrogesterone) 2mg with 10 mg) tablets Oestrogen 06.04.01.01 Estradiol 4micrograms/24hours transdermal patches and Dydrogesterone 10mg tablets Oestrogen 06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with norethisterone) and (estradiol) triphasic forte 4mg with (4mg with 1mg) oestrogen 06.04.01.01 Estradiol and (estradiol with dydrogesterone) 2mg with (1mg) tablets Oestrogen 06.04.01.01 Estradiol and (estradiol with dydrogesterone) 2mg with (2mg with 20mg) tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets Oestrogen	06.04.01.01		Oestrogen
06.04.01.01 Generic Evorel Sequi transdermal patches Norgestrel and conjugated oestrogens (equine) 150micrograms + 1.25mg Tablet Estradiol valerate and (estradiol valerate with norgestrel) 2mg with (2mg with 500micrograms) 1ablets O6.04.01.01 tablets O6.04.01.01 combined) 2mg with 0.7mg tablets O6.04.01.01 CONJ OEST 0.625mg/MPA 5mg tabs O6.04.01.01 Generic Cyclo-Progynova 2mg tablets O6.04.01.01 Norgestrel 150microgram tablets O6.04.01.01 Norgestrel 150microgram tablets O6.04.01.01 Norgestrel 150microgram tablets O6.04.01.01 twice weekly patch Estradiol with (estradiol with norethisterone acetate) 50mg/24 hr with (50mg+170mcg/24 hr) twice weekly patch Estradiol and (estradiol with norethisterone) and (estradiol) 2mg with (2mg with 1mg) tablets O6.04.01.01 DROSPIR 2mg/ESTRADIOL 1mg tabs O6.04.01.01 Setradiol and (estradiol with dydrogesterone) 2mg with (2mg with 10 mg) tablets O6.04.01.01 Estradiol 40micrograms/24hours transdermal patches and Dydrogesterone 10mg tablets O6.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets O6.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets O6.04.01.01 priphasic forte 4mg with (4mg with 1mg) with (1mg) tablets O6.04.01.01 medroxyprogesterone 10mg tablet O6.04.01.01 medroxyprogesterone 10mg tablet O6.04.01.01 medroxyprogesterone 10mg tablet O6.04.01.01 Generic Femoston 1/10mg tablets Oestrogen	06.04.01.01	Generic Tridestra tablets	Oestrogen
Norgestrel and conjugated oestrogens (equine)	06.04.01.01	ESTRADIO+NORETHIS 1/0.5mg tabs	Oestrogen
06.04.01.01 150micrograms + 1.25mg Tablet Cestrogen	06.04.01.01		Oestrogen
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Estradiol valerate 2mg / Norethisterone 700microgram tablets Oestrogen Estradiol and (estradiol with dydrogesterone) 2mg 06.04.01.01 with (2mg with 10 mg) tablets Oestrogen Estradiol 40micrograms/24hours transdermal 06.04.01.01 patches and Dydrogesterone 10mg tablets Oestrogen Estradiol 1mg / Dydrogesterone 5mg tablets Oestrogen Estradiol and (estradiol with norethisterone) and (estradiol) triphasic forte 4mg with (4mg with 1mg) 06.04.01.01 with (1mg) tablets Oestrogen Piperazine oestrone sulphate 1.5mg with medroxyprogesterone 10mg tablet Oestrogen Estradiol and (estradiol with dydrogesterone) 2mg 06.04.01.01 with (2mg with 20mg) tablets Oestrogen Estradiol with norethisterone Omcg/24hours(3.2mg/unit) with 1mg patch with tablet Oestrogen			
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Estradiol and (estradiol with dydrogesterone) 2mg with (2mg with 10 mg) tablets Estradiol 40micrograms/24hours transdermal patches and Dydrogesterone 10mg tablets Oestrogen 06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Estradiol and (estradiol with norethisterone) and (estradiol) triphasic forte 4mg with (4mg with 1mg) 06.04.01.01 with (1mg) tablets Oestrogen Piperazine oestrone sulphate 1.5mg with medroxyprogesterone 10mg tablet Oestrogen Estradiol and (estradiol with dydrogesterone) 2mg with (2mg with 20mg) tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets Oestrogen Estradiol with norethisterone Omcg/24hours(3.2mg/unit) with 1mg patch with tablet Oestrogen 06.04.01.01 Generic FemSeven Sequi transdermal patches Oestrogen Oestrogen	06.04.01.01		Oestrogen
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06.04.01.01 Estradiol 1mg / Dydrogesterone 5mg tablets Estradiol and (estradiol with norethisterone) and (estradiol) triphasic forte 4mg with (4mg with 1mg) 06.04.01.01 with (1mg) tablets Oestrogen Piperazine oestrone sulphate 1.5mg with medroxyprogesterone 10mg tablet Estradiol and (estradiol with dydrogesterone) 2mg 06.04.01.01 with (2mg with 20mg) tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets Oestrogen Estradiol with norethisterone 0mcg/24hours(3.2mg/unit) with 1mg patch with 06.04.01.01 Generic FemSeven Sequi transdermal patches Oestrogen 06.04.01.01 Estradiol 2mg / Norethisterone acetate 1mg tablets Oestrogen		Estradiol 40micrograms/24hours transdermal	
Estradiol and (estradiol with norethisterone) and (estradiol) triphasic forte 4mg with (4mg with 1mg) 06.04.01.01 with (1mg) tablets Oestrogen Piperazine oestrone sulphate 1.5mg with 06.04.01.01 medroxyprogesterone 10mg tablet Estradiol and (estradiol with dydrogesterone) 2mg 06.04.01.01 with (2mg with 20mg) tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets Oestrogen Estradiol with norethisterone Omcg/24hours(3.2mg/unit) with 1mg patch with 06.04.01.01 tablet Oestrogen 06.04.01.01 Generic FemSeven Sequi transdermal patches Oestrogen 06.04.01.01 Estradiol 2mg / Norethisterone acetate 1mg tablets Oestrogen	06.04.01.01	patches and Dydrogesterone 10mg tablets	Oestrogen
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Piperazine oestrone sulphate 1.5mg with 06.04.01.01 medroxyprogesterone 10mg tablet Oestrogen Estradiol and (estradiol with dydrogesterone) 2mg 06.04.01.01 with (2mg with 20mg) tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets Oestrogen Estradiol with norethisterone 0mcg/24hours(3.2mg/unit) with 1mg patch with 06.04.01.01 tablet Oestrogen 06.04.01.01 Generic FemSeven Sequi transdermal patches Oestrogen 06.04.01.01 Estradiol 2mg / Norethisterone acetate 1mg tablets Oestrogen		,	
06.04.01.01 medroxyprogesterone 10mg tablet Estradiol and (estradiol with dydrogesterone) 2mg 06.04.01.01 with (2mg with 20mg) tablets Oestrogen 06.04.01.01 Generic Femoston 1/10mg tablets Estradiol with norethisterone 0mcg/24hours(3.2mg/unit) with 1mg patch with 06.04.01.01 tablet Oestrogen 06.04.01.01 Generic FemSeven Sequi transdermal patches 0estrogen Oestrogen Oestrogen	06.04.01.01		Oestrogen
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06.04.01.01with (2mg with 20mg) tabletsOestrogen06.04.01.01Generic Femoston 1/10mg tabletsOestrogenEstradiol with norethisterone 0mcg/24hours(3.2mg/unit) with 1mg patch with06.04.01.01tabletOestrogen06.04.01.01Generic FemSeven Sequi transdermal patchesOestrogen06.04.01.01Estradiol 2mg / Norethisterone acetate 1mg tabletsOestrogen	06.04.01.01		Oestrogen
06.04.01.01 Generic Femoston 1/10mg tablets Estradiol with norethisterone 0mcg/24hours(3.2mg/unit) with 1mg patch with tablet 06.04.01.01 Generic FemSeven Sequi transdermal patches 06.04.01.01 Estradiol 2mg / Norethisterone acetate 1mg tablets Oestrogen Oestrogen	06.04.04.04		Costrogon
Estradiol with norethisterone Omcg/24hours(3.2mg/unit) with 1mg patch with tablet Oestrogen O6.04.01.01 Generic FemSeven Sequi transdermal patches Oestrogen O6.04.01.01 Estradiol 2mg / Norethisterone acetate 1mg tablets Oestrogen			
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06.04.01.01tabletOestrogen06.04.01.01Generic FemSeven Sequi transdermal patchesOestrogen06.04.01.01Estradiol 2mg / Norethisterone acetate 1mg tabletsOestrogen			
06.04.01.01 Estradiol 2mg / Norethisterone acetate 1mg tablets Oestrogen	06.04.01.01		Oestrogen
	06.04.01.01	Generic FemSeven Sequi transdermal patches	Oestrogen
06.04.01.01 CONJ OEST 0.3mg/MPA 1.5mg tabs Oestrogen	06.04.01.01	Estradiol 2mg / Norethisterone acetate 1mg tablets	Oestrogen
	06.04.01.01	CONJ OEST 0.3mg/MPA 1.5mg tabs	Oestrogen

	Estradiol 500micrograms / Dydrogesterone 2.5mg	
06.04.01.01	tablets	Oestrogen
06.04.01.01	Generic Premique Cycle tablets	Oestrogen
06.04.01.01	ESTRADIOL+NORETHIS 2/1mg tabs	Oestrogen
	Estradiol valerate 1mg / Medroxyprogesterone	
06.04.01.01	2.5mg tablets	Oestrogen
	Estradiol with norethisterone acetate	
	50mcg/24hours(4mg/unit) with 1mg patch with	
06.04.01.01	tablet	Oestrogen
06.04.01.01	Generic Femoston 2/10mg tablets	Oestrogen
06.04.01.01	Generic Trisequens Forte tablets	Oestrogen
	Estradiol with (estradiol with norethisterone	
06.04.04.04	acetate) 50mcg/24 hr with (50mcg+250mcg/24 hr)	
06.04.01.01	twice weekly patch	Oestrogen
06.04.01.01	Norgestrel and conjugated oestrogens (equine)	Oostrogen
06.04.01.01	150micrograms + 625micrograms Tablet	Oestrogen
06.04.01.01	Estradiol valerate 1mg / Medroxyprogesterone 2.5mg tablets	Oestrogen
06.04.01.01	Generic Adgyn Combi tablets	
00.04.01.01	Estradiol 1mg / Norethisterone acetate	Oestrogen
06.04.01.01	500microgram tablets	Oestrogen
00.04.01.01	Estradiol 50micrograms/24hours / Levonorgestrel	Ocstrogen
06.04.01.01	7micrograms/24hours transdermal patches	Oestrogen
06.04.01.01	Generic Elleste Duet 2mg tablets	Oestrogen
00101102102	Estradiol valerate and (estradiol valerate with	
06.04.01.01	norethisterone) 2mg with (2mg with 1 mg) tablets	Oestrogen
	Estradiol 50micrograms/24hours transdermal	
06.04.01.01	patches and Norethisterone 1mg tablets	Oestrogen
06.04.01.01	Generic Femoston 2/20mg tablets	Oestrogen
	Conjugated oestrogens 625microgram /	
06.04.01.01	Medroxyprogesterone 5mg tablets	Oestrogen
06.04.01.01	Estradiol 1mg / Dydrogesterone 5mg tablets	Oestrogen
06.04.01.01	Generic Elleste Duet 1mg tablets	Oestrogen
	Estradiol 50micrograms/24hours / Levonorgestrel	
06.04.01.01	7micrograms/24hours transdermal patches	Oestrogen
	Conjugat oestrogen equi and (conjugat oestrogen	
06.04.04.04	equi with medroxyprogesterone acetate 625	
06.04.01.01	micrograms with (625 microgram	Oestrogen
06.04.01.01	Estradiol valerate 2mg / Medroxyprogesterone	Oostrogen
06.04.01.01	5mg tablets Estradiol 40micrograms/24hours transdermal	Oestrogen
06.04.01.01	patches and Dydrogesterone 10mg tablets	Oestrogen
06.04.01.01	Generic Cyclo-Progynova 1mg tablets	Oestrogen
00.04.01.01	PREMARIN 0.625MG/NORGESTREL 0.15MG MG	Ocstrogen
06.04.01.01	TAB	Oestrogen
55.551.61	Estradiol valerate with medroxyprogesterone	
06.04.01.01	acetate tablets	Oestrogen
06.04.01.01	Mestranol with norethisterone Tablet	Oestrogen
06.04.01.01	ESTRADIOL+NORETHIS 2/1mg tabs	Oestrogen
30.0 1.01.01	LOTTO LOTO LA TITIO LA TITIO CADO	G 0001 0B011

	Piperazine oestrone sulphate 1.5mg with	
06.04.01.01	medroxyprogesterone 10mg tablet	Oestrogen
	Estradiol with (estradiol with norethisterone	<u> </u>
06.04.01.01	acetate) 2mg with (2mg with 1 mg) tablets	Oestrogen
	Conjugated oestrogens 625microgram tablets and	
06.04.01.01	Norgestrel 150microgram tablets	Oestrogen
	Estradiol and (estradiol with dydrogesterone) 1mg	
06.04.01.01	with (1mg with 10mg) tablets	Oestrogen
	Estradiol and (estradiol with norethisterone) 2mg	
06.04.01.01	with (2mg with 1mg) tablets	Oestrogen
06.04.01.01	ESTRADIOL+NORETHIS 2/1mg tabs	Oestrogen
	Estradiol valerate 2mg / Medroxyprogesterone	
06.04.01.01	5mg tablets	Oestrogen
06.04.04.04	Estradiol and (estradiol with dydrogesterone)	0
06.04.01.01	tablets 1mg with 5mg	Oestrogen
07.03.01.00	Estradiol valerate and (estradiol valerate with dienogest) tablets	Oostrogen
		Oestrogen
07.03.01.00	Generic Qlaira tablets	Oestrogen
06.04.01.01	ETHINYL+NOREL 600mcg/6mg patch	Oestrogen
	Ethinylestradiol 33.9micrograms/24hours /	
06.04.01.01	Norelgestromin 203micrograms/24hours transdermal patches	Oostrogen
06.04.01.01	Norelgestromin with ethinylestradiol	Oestrogen
	203micrograms + 33.9micrograms/24hours	
06.04.01.01	Transdermal patch	Oestrogen
07.03.02.01	Levonorgestrel 750microgram tablets	progestogen only contraceptive
07.03.02.01	DESOGESTREL 75mcg tablets	progestogen only contraceptive
07.03.02.01	DESOGESTREL 75mcg tablets	progestogen only contraceptive
07.03.02.01	Desogestrel 75microgram tablets	progestogen only contraceptive
07.03.02.02	ETONOGESTREL 68mg implant	progestogen only contraceptive
	Norethisterone 200mg/1ml solution for injection	
07.03.02.02	ampoules	progestogen only contraceptive
07.03.02.02	ETONOGESTREL 68mg implant	progestogen only contraceptive
07.03.02.02	NORETHISTERONE 200mg/1mL inj	progestogen only contraceptive
07.03.02.02	Etonogestrel 68mg implant	progestogen only contraceptive
07.03.02.00	MEDROXYPROGEST 50mg/mL inj	progestogen only contraceptive
07.03.02.01	Norgestrel 75microgram tablets	progestogen only contraceptive
07.03.02.01	LEVONORGESTREL 37.5mcg tabs	progestogen only contraceptive
07.03.02.01	Etynodiol 500microgram tablets	progestogen only contraceptive
07.03.02.01	ETYNODIOL DIACET 500mcg tabs	progestogen only contraceptive
07.03.02.02	MEDROXYPROGEST 150mg/1mL inj	progestogen only contraceptive
07.03.02.02	MEDROXYPROGEST 150mg/1mL inj	progestogen only contraceptive
07.03.02.02	MEDROXYPROGEST 150mg/1mL inj	progestogen only contraceptive
07.03.02.02	MEDROXYPROGEST 150mg/1mL inj	progestogen only contraceptive
	Levonorgestrel 20micrograms/24hours	
07.03.02.03	intrauterine device	progestogen only contraceptive
07.03.02.02	LEVONORGESTREL 38mg implant	progestogen only contraceptive
07.03.02.02	Levonorgestrel 228mg Implant	progestogen only contraceptive

07.03.02.03	LEVONORGESTREL 52mg i-u system	progestogen only contraceptive
07.03.02.01	Norethisterone 350mcg tablet	progestogen only contraceptive
07.03.02.01	Norethisterone 350microgram tablets	progestogen only contraceptive
07.03.02.01	Norethisterone 350mcg tablet	progestogen only contraceptive
	Medroxyprogesterone 150mg/1ml suspension for	
07.03.02.02	injection pre-filled syringes	progestogen only contraceptive
07.03.02.02	MEDROXYPROGEST 150mg/1mL syrng	progestogen only contraceptive
07.02.04.00	Ethinylestradiol 2.7mg / Etonogestrel 11.7mg	
07.03.01.00	vaginal delivery system	progestogen only contraceptive
07.03.02.01	LEVONORGESTREL 30mcg tablets	progestogen only contraceptive
07.03.02.01	Levonorgestrel 30microgram tablets	progestogen only contraceptive
07.03.02.01	LEVONORGESTREL 30mcg tablets	progestogen only contraceptive
08.03.02.00	Medroxyprogesterone acetate contraceptive 150mg/ml Injection	progestogen only contraceptive
06.04.01.01	Phyto progesterone 1.5% cream	Progestogen/Progesterone
06.04.01.01	Progesterone 1.5% cream	Progestogen/Progesterone
06.04.01.01	Phyto progesterone 3% cream	Progestogen/Progesterone
06.04.01.01	Phyto progesterone cream	Progestogen/Progesterone
06.04.01.01	Progesterone 3% cream	Progestogen/Progesterone
06.04.01.01	Phyto progesterone cream	Progestogen/Progesterone
06.04.01.02	HYDROXYPROG HEX 500mg/2mL inj	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 100mg capsules	Progestogen/Progesterone
06.04.01.02	MEDROXYPROGESTERONE 5mg tabs	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 50mg/1mL inj	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 200mg capsules	Progestogen/Progesterone
06.04.01.02	NORETHISTERONE 5mg tablets	Progestogen/Progesterone
06.04.01.02	MEDROXYPROGESTERONE 2.5mg tabs	Progestogen/Progesterone
06.04.01.02	Medroxyprogesterone 5mg tablets	Progestogen/Progesterone
06.04.01.02	Norethisterone 5mg tablets	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 10mg/1mL inj	Progestogen/Progesterone
06.04.01.02	Dydrogesterone 10mg tablets	Progestogen/Progesterone
06.04.01.02	Progesterone 50mg/ml injection	Progestogen/Progesterone
06.04.01.02	Norethisterone 5mg tablets	Progestogen/Progesterone
06.04.01.02	Norethisterone 5mg tablets	Progestogen/Progesterone
06.04.01.02	Progesterone micronised 200mg capsules	Progestogen/Progesterone
06.04.04.05	Hydroxyprogesterone caproate 500mg/2ml	
06.04.01.02	Injection	Progestogen/Progesterone
06.04.01.02	DYDROGESTERONE 10mg tablets	Progestogen/Progesterone
06.04.01.02	NORETHISTERONE 1mg tablets	Progestogen/Progesterone
06.04.01.02	MEDROXYPROGESTERONE 5mg tabs	Progestogen/Progesterone
06.04.01.02	Norethisterone 5mg tablets	Progestogen/Progesterone
06.04.01.02	Medroxyprogesterone 2.5mg tablets	Progestogen/Progesterone
06.04.01.02	MEDROXYPROGESTERONE 5mg tabs	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 400mg supps	Progestogen/Progesterone
06.04.01.02	NORETHISTERONE 5mg tablets	Progestogen/Progesterone

06.04.01.02	PROGESTERONE B.P IMPLANT 100 MG	Progestogen/Progesterone
06.04.01.02	Progesterone 200mg pessaries	Progestogen/Progesterone
06.04.01.02	MEDROXYPROGESTERONE 10mg tabs	Progestogen/Progesterone
06.04.01.02	Norethisterone 5mg tablets	Progestogen/Progesterone
	Progesterone 25mg/1ml solution for injection	
06.04.01.02	ampoules	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 100 MG INJ	Progestogen/Progesterone
06.04.01.02	DYDROGESTERONE 10mg tablets	Progestogen/Progesterone
06.04.01.02	Progesterone micronised 100mg capsules	Progestogen/Progesterone
06.04.04.02	Progesterone 50mg/1ml solution for injection	
06.04.01.02	ampoules	Progestogen/Progesterone
06.04.01.02	NORETHISTERONE 5mg tablets	Progestogen/Progesterone
06.04.01.02	GESTONE 25 MG TAB	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 4% vaginal gel	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 25mg/1mL inj	Progestogen/Progesterone
06.04.04.05	Hydroxyprogesterone 250mg/1ml solution for	Barrada a de la companya de la compa
06.04.01.02	injection ampoules	Progestogen/Progesterone
06.04.01.02	Medroxyprogesterone 10mg tablets	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 100mg/2mL inj	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 200mg supps	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 100mg/2mL inj	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 400mg supps	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 400mg supps	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 100mg/2mL inj	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 8% vaginal gel	Progestogen/Progesterone
06.04.01.02	GESTONE 10 MG TAB	Progestogen/Progesterone
06.04.01.02	Megestrol acetate (roi) 40mg/ml Oral suspension	Progestogen/Progesterone
	Progesterone 100mg/2ml solution for injection	
06.04.01.02	ampoules	Progestogen/Progesterone
06.04.01.02	ALLYLOESTRENOL 5mg tablets	Progestogen/Progesterone
06.04.01.02	Progesterone 4% vaginal gel 1.125g applicators	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 200mg supps	Progestogen/Progesterone
06.04.01.02	HYDROXYPROG CAP 250mg/1mL inj	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 200mg supps	Progestogen/Progesterone
06.04.01.02	Progesterone 8% vaginal gel 1.125g applicators	Progestogen/Progesterone
	Medroxyprogesterone acetate contraceptive	
06.04.01.02	50mg/ml Injection	Progestogen/Progesterone
06.04.01.02	Progesterone 400mg pessaries	Progestogen/Progesterone
06.04.01.02	Norethisterone 1mg tablets	Progestogen/Progesterone
06.04.01.02	Progesterone 200mg suppositories	Progestogen/Progesterone
06.04.01.02	PROGESTERONE 100mg/2mL inj	Progestogen/Progesterone
06.04.01.02	Allyoestrenol 5mg tablets	Progestogen/Progesterone
06.04.01.02	Progesterone 400mg suppositories	Progestogen/Progesterone
07.03.01.00	ETHINYL+NORETH 35mcg/1mg tabs	COC
07.03.01.00	ETHINYLOEST+LEVONOR 50/250mcg	COC
07.03.01.00	Ethinylestradiol with levonorgestrel - triphasic with	coc

	placebo 6x30+50mcg; 5x40+75mcg; 10x30+125mcg Tablet	
07.03.01.00	Generic Synphase tablets	coc
07.03.01.00	ETHINYL+DESOGES 20/150mcg tabs	coc
07.03.01.00	ETHINY+GEST+PLAC 30/75mcg tabs	coc
07.03.01.00	ETHINYL+GESTODEN 30/75mcg tabs	COC
07.03.01.00	ETHINYL+NORETH 35mcg/1mg tabs	COC
	Ethinylestradiol with levonorgestrel and placebo	
07.03.01.00	30micrograms + 150micrograms Tablet	coc
	Ethinylestradiol 30microgram / Drospirenone 3mg	
07.03.01.00	tablets	COC
07.03.01.00	ETHINYLESTR+DROSPIR 30mcg/3mg	COC
07.03.01.00	ANOVLAR 21 TAB	COC
	Ethinylestradiol 30microgram / Norethisterone	
07.03.01.00	acetate 1.5mg tablets	COC
07.03.01.00	Ethinylestradiol with lynoestrenol Tablet	COC
07.03.01.00	ETHINYL+LEVONOR 30/150mcg tabs	COC
.=	ETHINYLOESTRADIOL/LEVONORGESTREL 30 MCG	
07.03.01.00	TAB	COC
07.03.01.00	ETHINYLESTR+DROSPIR 30mcg/3mg	COC
07.03.01.00	Ethinylestradiol with norethisterone and placebo 50mcg + 1mg Tablet	coc
07.03.01.00	ETHINYL+GESTODEN 20/75mcg tabs Gestodene with ethinylestradiol	COC
07.03.01.00	75microgramwith30microgram Tablet	coc
07.03.01.00	Ethinylestradiol with gestodene and placebo	
07.03.01.00	30micrograms + 75micrograms Tablet	coc
07.03.01.00	OVULEN 50 TAB	COC
07.03.01.00	ETHINYL+LEVONOR 30/250mcg tab	COC
	Ethinylestradiol 20microgram / Norethisterone	
07.03.01.00	acetate 1mg tablets	coc
07.03.01.00	ETHINYLOEST+LEVONOR 50/250mcg	coc
07.03.01.00	ETHINYLOEST+LEVONOR 50/250mcg	coc
	Mestranol 50microgram / Norethisterone 1mg	
07.03.01.00	tablets	COC
	Ethinylestradiol with norethisterone - triphasic and	
	placebo 7 x 35+500mcg; 7 x 35+750mcg; 7 x	
07.03.01.00	35mcg+1mg Tablet	COC
07.03.01.00	Generic Logynon tablets	COC
07.03.04.00	Ethinylestradiol with levonorgestrel - triphasic	SOC
07.03.01.00	6x30+50mcg; 5x40+75mcg; 10x30+125mcg Tablet	COC
07.03.01.00	Generic Logynon ED tablets	COC
07.03.01.00	Generic Logynon tablets	COC
07.03.01.00	ETHINYL+GESTODEN 30/75mcg tabs	COC
07.03.01.00	ETHINYL+GESTODEN 30/75mcg tabs	COC
07 02 04 00	Ethinylestradiol with gestodene - triphasic 6 x	coc
07.03.01.00	30+50mcg; 5 x 40+70mcg; 10 x 30+100mcg Tablet	
07.03.01.00	ETHINYL+NORETH 35/500mcg tabs	COC

07.03.01.00	Generic Binovum tablets	COC
07.03.01.00	ETHINY+NORETH 30mcg/1.5mg tabs	COC
07.03.01.00	ETHINYL+DESOGES 20/150mcg tabs	COC
07103102100	Ethinylestradiol with norethisterone acetate	
07.03.01.00	50micrograms + 3mg Tablet	coc
07.03.01.00	ETHINYL+NORETH 35/500mcg tabs	COC
07.03.01.00	Ethinylestradiol with levonorgestrel Tablet	COC
07.03.01.00	Ethinylestradiol 2.7mg / Etonogestrel 11.7mg	
07.03.01.00	vaginal delivery system	coc
	Ethinylestradiol with norethisterone - triphasic	
	7x35+500mcg; 9x35mcg+1mg; 5x35+500mcg	
07.03.01.00	Tablet	coc
07.03.01.00	Generic Tri-Minulet tablets	coc
07.03.01.00	Mestranol with norethisterone Tablet	coc
07.03.01.00	Generic Tri-Minulet tablets	COC
	Ethinylestradiol with levonorgestrel 30micrograms	
07.03.01.00	+ 50micrograms Tablet	coc
07.03.01.00	MESTRANOL+NORETHIST 50mcg/1mg	coc
07.03.01.00	MINOVLAR TAB	COC
07.03.01.00	ETHINYL+LEVONOR 30/150mcg tabs	COC
	ETHINYLOESTRAD.50MCG/LYNOESTRENOL 2.5MG	
07.03.01.00	MCG TAB	coc
	Ethinylestradiol 20microgram / Desogestrel	
07.03.01.00	150microgram tablets	coc
07.03.01.00	ETHINYL+GESTODEN 30/75mcg tabs	coc
	ETHINYLOESTRADIOL 50MCG/ETHYNODIOL 1MG	
07.03.01.00	MCG TAB	COC
	Norgestimate with ethinylestradiol 250micrograms	
07.03.01.00	+ 35micrograms Tablet	COC
07.00.04.00	Desogestrel with ethinylestradiol 150micrograms	
07.03.01.00	with 20micrograms tablets	COC
07.03.01.00	Ethinylestradiol 30microgram / Gestodene	COC
07.03.01.00	75microgram tablets	
	ETHINYLOEST+LEVONOR 50/250mcg	COC
07.03.01.00	ETHINYL+LEVONOR 30/150mcg tabs	COC
07.03.01.00	ETHINYLOESTRAD. 50MCG/NORETHISTERONE 3MG MCG TAB	coc
07.03.01.00	Ethinylestradiol with norethisterone - triphasic 7 x	COC
	35+500mcg; 7 x 35+750mcg; 7 x 35mcg+1mg	
07.03.01.00	Tablet	coc
07.03.01.00	ETHINYL+LEVONOR 30/250mcg tab	COC
07.03.01.00	ETHINYL+NORGES 35/250mcg tabs	coc
07.03.01.00	ETHINYLOES+ETHYNOD 30mcg/2mg	coc
07.03.01.00	Ethinylestradiol with norethisterone - biphasic 7 x	
07.03.01.00	35mcg+500mcg; 14 x 35mcg+1mg Tablet	coc
07.03.01.00	MESTRANOL+NORETHIST 50mcg/1mg	COC
07.03.01.00	Ethinylestradiol with norethisterone acetate	
07.03.01.00	50micrograms + 3mg Tablet	coc
		-

07.03.01.00	ETHINYL+DESOGES 30/150mcg tabs	COC		
	Ethinylestradiol 30microgram / Desogestrel			
07.03.01.00	150microgram tablets	COC		
07.03.01.00	ETHINYL+GESTODEN 20/75mcg tabs	coc		
07.03.01.00	Generic Microgynon 30 ED tablets	COC		
	ETHINYLOESTRADIOL/NORETHISTERONE 35 MCG			
07.03.01.00	TAB	COC		
	Ethinylestradiol 35microgram / Norgestimate			
07.03.01.00	250microgram tablets	COC		
07.03.01.00	ETHINYL+DESOGES 30/150mcg tabs	COC		
07.03.01.00	ETHINYL+LEVONOR 30/150mcg tabs	COC		
	Ethinylestradiol with norethisterone acetate 50mcg			
07.03.01.00	+ 1mg Tablet	COC		
07.03.01.00	ETHINYL+GESTODEN 20/75mcg tabs	COC		
07.03.01.00	ETHINYL+NORGES 35/250mcg tabs	COC		
	Levonorgestrel 250microgram / Ethinylestradiol			
07.03.01.00	50microgram tablets	COC		
07.03.01.00	ETHINYLOEST+LEVONOR 50/250mcg	COC		
	Ethinylestradiol 35microgram / Norethisterone			
07.03.01.00	1mg tablets	COC		
	Ethinylestradiol 20microgram / Gestodene			
07.03.01.00	75microgram tablets	COC		
07.02.01.00	Desogestrel with ethinylestradiol 150micrograms	505		
07.03.01.00	with 30micrograms tablets	COC		
07.03.01.00	Generic Logynon tablets	COC		
07.03.01.00	ETHINYL+NORETH 20mcg/1mg tabs	COC		
07.03.01.00	ETHINYLOESTRADIOL 50MCG/NORGESTREL500MCG MCG TAB	COC		
07.03.01.00	Levonorgestrel 250microgram / Ethinylestradiol	COC		
07.03.01.00	30microgram tablets	COC		
07.03.01.00	Ethinylestradiol 30microgram / Levonorgestrel			
07.03.01.00	150microgram tablets	COC		
07.03.01.00	ETHINYL+LEVONOR 30/150mcg tabs	COC		
07.03.02.00	ETHINYLOESTRADIOL 30MCG/ETHYNODIOL 2MG			
07.03.01.00	MCG TAB	coc		
07.03.01.00	Generic Trinovum tablets	COC		
07.03.01.00	ETHINYL+LEVONOR 30/150mcg tabs	COC		
	Ethinylestradiol 35microgram / Norethisterone			
07.03.01.00	500microgram tablets	coc		
	Gestodene with ethinylestradiol			
07.03.01.00	75microgramwith20microgram Tablet	COC		
	Ethinylestradiol 30microgram / Levonorgestrel			
07.03.01.00	150microgram tablets	COC		
07.03.01.00	LEVONORGESTREL 750mcg tablets	COC		
07.03.01.00	LEVONORGESTREL 750mcg tablets	COC		
07.03.01.00	Levonorgestrel 750microgram tablets	COC		
04.03.03.00		SSRI		
	Sertraline 50mg tablets	SSRI		
07.03.01.00 07.03.01.00	LEVONORGESTREL 750mcg tablets Levonorgestrel 750microgram tablets	COC		

04.03.03.00	Fluoxetine 20mg/5ml oral solution	SSRI			
04.03.03.00	Citalopram 10mg tablets SSRI				
04.03.03.00	FLUOXETINE 20mg capsules	SSRI			
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	FLUOXETINE 20mg capsules	SSRI			
04.03.03.00	Citalopram 40mg tablets	SSRI			
04.03.03.00	CITALOPRAM 10mg tablets	SSRI			
04.03.03.00	FLUOXETINE 20mg/5mL oral liq	SSRI			
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	Paroxetine 30mg tablets	SSRI			
04.03.03.00	FLUOXETINE 20mg/5mL oral liq	SSRI			
04.03.03.00	PAROXETINE 30mg tablets	SSRI			
04.03.03.00	Citalopram 20mg tablets	SSRI			
04.03.03.00	Paroxetine 30mg tablets	SSRI			
04.03.03.00	Citalopram 40mg tablets	SSRI			
04.03.03.00	Fluoxetine 20mg/5ml oral solution sugar free	SSRI			
04.03.03.00	Citalopram 10mg tablets	SSRI			
04.03.03.00	Citalopram 10mg tablets	SSRI			
04.03.03.00	Escitalopram 10mg tablets	SSRI			
04.03.03.00	CITALOPRAM 40mg/mL oral drops	SSRI			
04.03.03.00	ESCITALOPRAM 20mg tablets	SSRI			
04.03.03.00	Citalopram 10mg tablets	SSRI			
04.03.03.00	Paroxetine 20mg tablets	SSRI			
04.03.03.00	Fluvoxamine 50mg tablets	SSRI			
04.03.03.00	Sertraline 100mg tablets	SSRI			
04.03.03.00	Escitalopram 10mg/ml oral drops sugar free	SSRI			
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	FLUOXETINE 60mg capsules	SSRI			
04.03.03.00	Citalopram 20mg tablets	SSRI			
04.03.03.00	Citalopram 10mg tablets	SSRI			
04.03.03.00	Paroxetine 10mg tablets	SSRI			
04.03.03.00	Citalopram 40mg tablets	SSRI			
04.03.03.00	Citalopram 40mg/ml oral drops sugar free	SSRI			
04.03.03.00	Fluoxetine 60mg capsules	SSRI			
04.03.03.00	Fluoxetine 20mg/5ml oral solution	SSRI			
04.03.03.00	SERTRALINE 100mg tablets	SSRI			
04.03.03.00	Fluvoxamine 100mg tablets	SSRI			
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	ESCITALOPRAM 10mg tablets	SSRI			
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	ESCITALOPRAM 5mg tablets	SSRI			
04.03.03.00	Sertraline 50mg tablets	SSRI			
04.03.03.00	Citalopram 20mg tablets	SSRI			

04.03.03.00	1 5				
04.03.03.00	CITALOPRAM 10mg tablets	SSRI			
04.03.03.00	Paroxetine 20mg tablets SSRI				
04.03.03.00	Paroxetine 10mg/5ml oral suspension sugar free SSRI				
04.03.03.00	FLUOXETINE 20mg capsules SSRI				
04.03.03.00	Citalopram 20mg tablets SSRI				
04.03.03.00	Fluoxetine 20mg capsules SSRI				
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	Fluvoxamine 100mg tablets	SSRI			
04.03.03.00	Citalopram 20mg tablets	SSRI			
04.03.03.00	FLUOXETINE 20mg capsules	SSRI			
04.03.03.00	Paroxetine 20mg tablets	SSRI			
04.03.03.00	Citalopram 10mg tablets	SSRI			
04.03.03.00	Fluoxetine 20mg/5ml oral solution	SSRI			
04.03.03.00	Paroxetine 20mg tablets	SSRI			
04.03.03.00	Citalopram 20mg tablets	SSRI			
04.03.03.00	ESCITALOPRAM 20mg/mL oral dps SSRI				
04.03.03.00	Citalopram 40mg tablets	SSRI			
04.03.03.00	Escitalopram 5mg tablets	SSRI			
04.03.03.00	FLUVOXAMINE MALEATE 50mg tabs SSRI				
04.03.03.00	ESCITALOPRAM 10mg/mL oral dps SSRI				
04.03.03.00	Sertraline 100mg tablets SSRI				
04.03.03.00	Citalopram 10mg tablets SSRI				
04.03.03.00	Citalopram 10mg tablets SSRI				
04.03.03.00	Fluoxetine 60mg capsules SSRI				
04.03.03.00	Citalopram 20mg tablets SSRI				
04.03.03.00	Citalopram 20mg tablets	SSRI			
04.03.03.00	Fluoxetine 20mg/5ml oral solution	SSRI			
04.03.03.00	Citalopram 40mg tablets	SSRI			
04.03.03.00	Paroxetine 20mg tablets	SSRI			
04.03.03.00	PAROXETINE 20mg tablets	SSRI			
04.03.03.00	CITALOPRAM 20mg tablets	SSRI			
04.03.03.00	CITALOPRAM 40mg tablets	SSRI			
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
04.03.03.00	Citalopram 10mg tablets	SSRI			
04.03.03.00	Citalopram 20mg tablets	SSRI			
04.03.03.00	<u> </u>				
04.03.03.00	Fluvoxamine 100mg tablets	SSRI			
04.03.03.00	FLUVOXAMINE MALEATE 100mg tabs	SSRI			
04.03.03.00	Paroxetine 20mg tablets	SSRI			
04.03.03.00	Paroxetine 30mg tablets SSRI				
04.03.03.00	italopram 40mg tablets SSRI				
04.03.03.00					
04.03.03.00	Fluoxetine 20mg capsules	SSRI			
	U I	<u>I</u>			

04.03.03.00	Citalopram 40mg tablets	SSRI					
04.03.03.00	Escitalopram 20mg tablets	SSRI					
04.03.03.00	Sertraline 50mg/5ml oral suspension	SSRI					
04.03.03.00	Citalopram 40mg tablets	SSRI					
04.03.03.00	Fluoxetine 20mg capsules	SSRI					
04.03.03.00	Citalopram 10mg tablets SSRI SSRI						
04.03.03.00	Citalopram 40mg tablets	SSRI					
04.03.03.00	Citalopram 40mg tablets SSRI Sertraline 100mg tablets SSRI						
04.03.03.00	PAROXETINE 10mg tablets	SSRI					
04.03.03.00	Paroxetine 30mg tablets	SSRI					
04.03.03.00	Fluoxetine 20mg capsules	SSRI					
04.03.03.00	Fluoxetine 20mg capsules	SSRI					
04.03.03.00	Sertraline 100mg tablets	SSRI					
04.03.03.00	PAROXETINE 10mg/5mL s/f liq	SSRI					
04.03.03.00	Citalopram 20mg tablets	SSRI					
04.03.03.00	Fluoxetine 20mg/5ml oral solution sugar free	SSRI					
04.03.03.00							

STROBE 2007 (v4) Statement—Checklist of items that should be included in reports of cohort studies

Section/Topic	Item #	Recommendation	Reported on page #
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	2
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	3
Objectives	3	State specific objectives, including any prespecified hypotheses	3
Methods			
Study design	4	Present key elements of study design early in the paper	4
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up	4
		(b) For matched studies, give matching criteria and number of exposed and unexposed	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	4
Data sources/	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe	4
measurement		comparability of assessment methods if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	4
Study size	10	Explain how the study size was arrived at	NA
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	4
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	4
		(b) Describe any methods used to examine subgroups and interactions	4
		(c) Explain how missing data were addressed	NA
		(d) If applicable, explain how loss to follow-up was addressed	4
		(e) Describe any sensitivity analyses	4
Results			

Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed	5
		eligible, included in the study, completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	5
		(c) Consider use of a flow diagram	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential	5
		confounders	
		(b) Indicate number of participants with missing data for each variable of interest	NA
		(c) Summarise follow-up time (eg, average and total amount)	
Outcome data	15*	Report numbers of outcome events or summary measures over time	5
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence	5
		interval). Make clear which confounders were adjusted for and why they were included	
		(b) Report category boundaries when continuous variables were categorized	NA
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	5
Discussion			
Key results	18	Summarise key results with reference to study objectives	6
Limitations			
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from	6, 7
		similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	6, 7
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on	8
		which the present article is based	

^{*}Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

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