

# Supplemental Materials

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## Supplement A - Identifying Pregnancies

**eTable 1. Codes Used to Define Pregnancy Outcomes**

Pregnancy Outcome	Code Type	Code
Live Birth (1)	ICD-9 Diagnosis	644.21, 645.11, 645.21, 649.81, 649.82, 650, 651.01, 651.11, 651.21, 651.31, 651.41, 651.51, 669.70, 669.71, 765.0, 765.10-765.29, 766.21, 766.22, V270, V27.2, V27.3, V27.5, V27.6, V30.0, V30.00, V30.01, V31.0, V31.00, V31.01, V32.0, V32.00, V32.01, V33, V33.0, V33.00, V33.01, V34.0, V34.00, V34.01, V35.0, V35.00, V35.01, V36.0, V36.00, V36.01, V37, V37.0, V37.00, V37.01, V39.0, V39.00, V39.01
	CPT	59612, 59614, 59620
	ICD-9 Procedure	72.0, 72.1, 72.2, 72.21, 72.29, 72.3, 72.31, 72.39, 72.4, 72.5, 72.51, 72.52, 72.53, 72.54, 72.6, 72.7, 72.71, 72.79, 72.8, 72.9, 73.0, 73.01, 73.09, 73.1, 73.2, 73.22, 73.3, 73.4, 73.5, 73.51, 73.59, 73.6, 73.8, 73.9, 73.91, 73.92, 73.93, 73.94, 73.99, 74, 74.0, 74.1, 74.2, 74.4, 74.9, 74.99,
	DRG	790, 791, 792, 793, 795, 765, 766, 767, 768, 774, 775
Stillbirth (1)	ICD-9 Diagnosis	656.4x, V27.1, V27.4, V27.7
Ectopic Pregnancy (2)	ICD-9 Diagnosis	633, 633.0x, 633.1x, 633.2x, 633.8x, 633.9x
	CPT	59120, 59121, 59130, 59135, 59136, 59140, 59150, 59151
	ICD-9 Procedure	66.0x, 66.62, 74.3
	NDC	All NDC from MarketScan Redbook that had the generic drug name <i>Methotrexate</i> <sup>a</sup>
	HCPCS	J9250, J9260 (Methotrexate Injections)(3)
Spontaneous Abortion (1)	ICD-9 Diagnosis	631.x, 632.x, 634.x
	CPT	59820, 59812, 59830, 59821
	ICD-9 Procedure	69.51
Induced Abortion (1)	ICD-9 Diagnosis	635.x, 636.x, 637.x
	CPT	59840, 59841, 59850, 59851, 59852, 59855, 59856, 59857
	HCPCS	S0199, S2260, S2265, S2262, S2266, S2267
	ICD-9 Procedure	69.01, 74.91, 75.0
Abortion (Unknown Type) (1) (NOTE: we combined the few unknown type abortions with induced abortions)	ICD-9 Procedure	69.52
	DRG	770, 779

Abbreviations: ICD = International Classification of Diseases, CPT = Current PRedural Terminology, DRG = Diagnostic Related Groups, HCPCS = Healthcare Common Procedure Coding System, NDC = National Drug Codes

<sup>a</sup> 319 unique NDCs – contact author for complete list of NDC included

## Defining Pregnancies using IBM MarketScan Data and Redivis

There are several approaches to defining pregnancies using claims data,(1,4–6) as well as specific approaches for identifying ectopic pregnancies using claims data.(2) I will primarily use the Ailes et al. (2016) approach, however, will use the Scholes et al. (2011) approach to identify ectopic pregnancies, since they validated their algorithm.(1,2) To implement this approach, I first identify all births based on the Ailes approach, then use the Scholes approach to remove any ectopic pregnancies that could be false positives.

### A. Identify all births

- 1) Import all pregnancy-related codes from Redivis to SAS (NOTE: Redivis is the web platform used by the Center for Population Health Sciences at Stanford to host and share data). This includes data from all inpatient and outpatient services between 2007-2015 (ICD-9 diagnoses (1-4), ICD-9 Procedures, CPT, HCPCS codes from MarketScan Outpatient Services; ICD-9 diagnoses (1-4), ICD-9 Procedures, CPT codes, HCPCS codes, DRG codes from MarketScan Inpatient Services; NDC codes from MarketScan Outpatient Pharmaceutical Claims)
- 2) Only keep codes listed in Table A1 that occurred between November 1, 2008 and September 30, 2015
  - i. The data is available starting Jan 1, 2007, however, I need information in the year before the LMP. The LMP is up to 43 weeks before the pregnancy-end code, so women whose pregnancies ended on November 1, 2008 could all have the maximum 43 weeks of gestation and a full year before LMP of information.
  - ii. September 30, 2015 was selected as the end date because ICD-10-CM goes into effect on October 1, 2015. Wanted to keep codes consistent throughout.

### B. Define Pregnancies

- 1) For each woman on each date, identify the types of pregnancy codes, and group all types of code (ICD-9 Diagnosis, DRG, HCPCS, CPT, ICD-9 Procedure) relating to each pregnancy outcome into separate datasets. For example, we would have all pregnancy codes related to live births in one dataset, all codes related to stillbirth in another, etc.
- 2) Use the Ailes method to identify the gestational age associated with each pregnancy code for each outcome
- 3) If more than one gestational age is identified for an outcome ending on the same date, select the lowest gestational age.(1)

We now have one gestational age assigned to each pregnancy outcome on a specific date for each woman.

Pregnancies of the same type could be too close together to be possible, so we remove duplicates within pregnancy type.

- 4) To remove duplicate pregnancies, we designate earliest code within each pregnancy outcome as the index event, and disregard all subsequent codes for that pregnancy outcome within a predetermined period.
  - a. For Live Births, Stillbirths, Spontaneous Abortions, and Induced Abortions, we require at least 2 months between the end of one pregnancy and the beginning of the next.(1) For example, among live births, for each woman, we identify the first live birth as the index event; we then remove any subsequent pregnancies where the LMP was less than 2 months after the end of that first pregnancy. After those have been deleted, we go to the second pregnancy, and delete any subsequent pregnancies where the LMP was less than 2 months after the end of the second pregnancy. This continues until all 'duplicate' pregnancies have been removed for all pregnancy outcomes.
  - b. For ectopic pregnancies, any codes after the first ectopic pregnancy-related code within 180 days is considered part of the same ectopic pregnancy episode.
- 5) Identify ectopic pregnancies based on Scholes approach.
  - a. Identify the first ectopic pregnancy code, and only kept codes that occurred within 180 days.
  - b. Follow Scholes et al. (2011) algorithm for identifying true ectopic pregnancy episodes and determine treatment type
    - Case 1: 2 or more visits with ectopic pregnancy diagnosis or Procedure codes in an episode
    - Case 2: If only one diagnosis or Procedure code, have and ICD-9 Tubal pregnancy code (633.10, 633.11) in an episode.
    - Case 3: If only one diagnosis or Procedure code, but the code is not a diagnosis of tubal pregnancy (633.10, 633.11), has a methotrexate treatment in the episode

For each woman, we now have no more than one pregnancy of each pregnancy type. Want to identify the first pregnancy for each woman, so eliminate pregnancies that overlap with other pregnancy types. For example, a woman could have an induced abortion code and a stillbirth code the next week – stillbirth codes are more reliable, so we would remove the induced abortion code.

- 6) To remove duplicates across pregnancy type, we use the following hierarchy: Live Birth, Stillbirth, ectopic pregnancy, induced abortion, spontaneous abortion.(4,7)
  - i. Identify all live births and disregard any (stillbirth, ectopic, induced abortion, spontaneous abortion) pregnancies that ended less than 2 months before the LMP of each live birth, and any (stillbirth, ectopic,

induced abortion, spontaneous abortion) pregnancies with LMPs less than 2 months after each live birth occurred.

- ii. Identify all stillbirths and disregard any (ectopic, induced abortion, spontaneous abortion) pregnancies that ended less than 2 months before the LMP of each stillbirth, and any (ectopic, induced abortion, spontaneous abortion) pregnancies with LMPs less than 2 months after each stillbirth occurred.
- iii. Identify all ectopic pregnancies and disregard any (induced abortion, spontaneous abortion) pregnancies that ended less than 2 months before the LMP of each ectopic pregnancy ended, and any (induced abortion, spontaneous abortion) pregnancies with LMPs less than 2 months after each ectopic pregnancy ended.
- iv. Identify all induced abortion pregnancies and disregard any spontaneous abortions that ended less than 2 months before the LMP of each induced abortion occurred, and any spontaneous abortions with LMPs less than 2 months after each induced abortion occurred.

This is our final cohort of pregnancies:

**eTable 2. Pregnancy Cohort Step 1 (n = 4,087,478)**

<b>Pregnancy Type</b>	<b>Frequency</b>	<b>Percent</b>
<b>Live Birth</b>	3,250,432	79.52
<b>Stillbirth</b>	17,860	0.44
<b>Ectopic</b>	62,979	1.54
<b>Induced Abortion</b>	271,909	6.65
<b>Spontaneous Abortion</b>	484,298	11.85

- C. Identify exclusions based on pharmaceutical coverage and enrollment

Remove any pregnancies where the woman did not have prescription drug coverage in the year her pregnancy ended

**eTable 3. Pregnancy Cohort Step 2 (n = 3,295,900)**

<b>Pregnancy Type</b>	<b>Frequency</b>	<b>Percent</b>
<b>Live Birth</b>	2,624,835	79.64
<b>Stillbirth</b>	14,355	0.44
<b>Ectopic</b>	50,638	1.54
<b>Induced Abortion</b>	214,078	6.50
<b>Spontaneous Abortion</b>	391,994	11.89

- D. Remove any pregnancies where the woman did not have sufficient coverage.

- 7) Sufficient coverage is defined as having complete coverage from one year before LMP to one months after LMP. Identify the month/year that the is one month after LMP (coverage end month), identify the month/year one year before LMP (coverage start month)

- i. In the Annual Enrollment Summary, there is an indicator for each month of coverage. Transpose to 'long' form, and keep all months that had enrollment.
- ii. Keep all months that were on or after the start month and on or before the end month
- iii. Count up the number of months kept for each pregnancy, keep pregnancies with at least 13 months of coverage.

**eTable 4. Pregnancy Cohort Step 3 (n = 1,703,245)**

<b>Pregnancy Type</b>	<b>Frequency</b>	<b>Percent</b>
<b>Live Birth</b>	1,289,010	75.68
<b>Stillbirth</b>	7,885	0.46
<b>Ectopic</b>	30,533	1.79
<b>Induced Abortion</b>	135,757	7.97
<b>Spontaneous Abortion</b>	240,060	14.09

## Supplement B. Generic Names of Antidepressants

**eTable 5.** Antidepressants by Antidepressant Class

<b>Antidepressant Class</b>	<b>Generic Name</b>
Selective Serotonin Reuptake Inhibitors	citalopram, escitalopram, fluoxetine, fluvoxamine, paroxetine, sertraline
Serotonin-Norepinephrine Reuptake Inhibitors	duloxetine, desvenlafaxine, levomilnacipran, venlafaxine
Tricyclic Antidepressants	amitriptyline, amoxapine, clomipramine, desipramine, doxepine, imipramine, nortriptyline, protriptyline, trimipramine
Other	bupropion (miscellaneous), mirtazapine (tetracyclic antidepressant), maprotiline (tetracyclic antidepressant), nefazodone (phenylpiperazine antidepressant), selegiline (monoamine oxidase inhibitors), trazodone (phenylpiperazine antidepressant), phenelzine (monoamine oxidase inhibitors), tranylcypromine (monoamine oxidase inhibitors), vilazodone (miscellaneous), vortioxetine (miscellaneous)



## Supplement C. Codes to Identify Predefined Health Conditions

**eTable 6.** Codes to Identify Predefined Health Conditions in the Year before a Woman’s Last Menstrual Period

Condition	Code Type	Codes
Sexually Transmitted Infection(8)	ICD-9 Diagnosis	090-098, 079.4, 0541, 042, V08, 795.71
Assisted Reproductive Technology(9)	CPT	58970, 58974, 58976
Pelvic Inflammatory Disease(10)	ICD-9 Diagnosis	098.19, 098.16, 098.10, 098.17, 098.86, 614.9, 099.56, 614.0, 614.2, 615.0, 615.9, 614.3, 614.5, 615.8),
Intrauterine Device(11)	ICD-9 Diagnosis	V25.1, V25.42, 996.65, 996.76
	CPT	58300, 58301
	HCPCS	J7300, J7302
	ICD-9 Procedure	69.7, 97.71
Smoking(12)	ICD-9 Diagnosis	305.1, 649.0, 649.00, 649.01, 649.02, 649.03, 649.04, V15.82, 989.84
	CPT	99406, 99407, G0436, G0437, 9016, 1034F, 4001F, 4004F, G9276, G9458, S4995, S9453

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## Supplement D. Unweighted and Inverse Probability of Treatment Weighted Standardized Difference

**eTable 7. Baseline Demographic and Health Characteristics, Pre-Pregnancy Depression Cohort, Any Antidepressant**

Characteristics at the End of Pregnancy		Had an Antidepressant Prescription	Did not have an Antidepressant Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences	
		n (%)	n (%)			
Age						
	15-19	2197 (5.45)	6332 (9.52)	0.16	0.00	
	20-24	4569 (11.34)	10176 (15.3)	0.12	0.00	
	25-29	8944 (22.2)	14966 (22.5)	0.01	0.00	
	30-34	13099 (32.51)	19540 (29.38)	0.07	0.00	
	35-39	8774 (21.78)	12069 (18.15)	0.09	0.00	
	40-44	2704 (6.71)	3418 (5.14)	0.07	0.00	
Year						
	2008 -2011	17452 (43.32)	29009 (43.62)	0.01	0.00	
	2012-2015	22835 (56.68)	37492 (56.38)	0.01	0.00	
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
	Sexually Transmitted Infection	768 (1.91)	1523 (2.29)	0.03	0.00	
	Assisted Reproductive Technology	268 (0.67)	478 (0.72)	0.01	0.00	
	Pelvic Infection	373 (0.93)	751 (1.13)	0.02	0.00	
	Intrauterine Device	2060 (5.11)	3401 (5.11)	0.00	0.00	
	Smoking	2884 (7.16)	4953 (7.45)	0.01	0.00	
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	300	Once	15684 (38.93)	19417 (29.2)	0.21	0.00
DX	300	Sporadic	9836 (24.41)	10823 (16.27)	0.20	0.00
DX	401	Once	2797 (6.94)	3711 (5.58)	0.06	0.00
DX	616	Once	4531 (11.25)	9055 (13.62)	0.07	0.00
RX	00093007401	Once	1678 (4.17)	1612 (2.42)	0.10	0.01
RX	59746000103	Once	1554 (3.86)	1763 (2.65)	0.07	0.00
RX	00093007401	Sporadic	994 (2.47)	786 (1.18)	0.10	0.01
DX	780	Once	14174 (35.18)	20937 (31.48)	0.08	0.00
DX	401	Sporadic	1705 (4.23)	2083 (3.13)	0.06	0.00
RX	00406051201	Once	1777 (4.41)	2430 (3.65)	0.04	0.00
DX	626	Once	9553 (23.71)	17156 (25.8)	0.05	0.00
DX	327	Once	1048 (2.6)	991 (1.49)	0.08	0.00
DX	623	Once	2388 (5.93)	4796 (7.21)	0.05	0.00
DX	346	Once	4001 (9.93)	5403 (8.12)	0.06	0.00
DX	530	Once	3090 (7.67)	4306 (6.48)	0.05	0.00
DX	626	Frequent	4103 (10.18)	7498 (11.28)	0.04	0.00
DX	724	Sporadic	4377 (10.86)	6485 (9.75)	0.04	0.00
RX	00378191210	Once	380 (0.94)	299 (0.45)	0.06	0.01
DX	346	Frequent	1220 (3.03)	1351 (2.03)	0.06	0.00
RX	00093007401	Frequent	515 (1.28)	360 (0.54)	0.08	0.01
DX	729	Frequent	2516 (6.25)	3400 (5.11)	0.05	0.00
RX	00378075110	Once	906 (2.25)	1112 (1.67)	0.04	0.00
RX	00378191210	Sporadic	233 (0.58)	168 (0.25)	0.05	0.01
DX	300	Frequent	5256 (13.05)	5372 (8.08)	0.16	0.00
RX	67253090150	Frequent	189 (0.47)	122 (0.18)	0.05	0.00
RX	00603388728	Once	291 (0.72)	291 (0.44)	0.04	0.00
RX	00591024005	Once	276 (0.69)	234 (0.35)	0.05	0.00

DX	V58	Once	3898 (9.68)	4958 (7.46)	0.08	0.00
DX	789	Once	8917 (22.13)	15381 (23.13)	0.02	0.00
DX	625	Once	6020 (14.94)	10558 (15.88)	0.03	0.00
RX	63304077205	Frequent	203 (0.5)	119 (0.18)	0.06	0.00
DX	729	Once	5787 (14.36)	8683 (13.06)	0.04	0.00
DX	V20	Once	493 (1.22)	1153 (1.73)	0.04	0.00
RX	00378191010	Once	849 (2.11)	649 (0.98)	0.09	0.01
DX	780	Frequent	6396 (15.88)	8662 (13.03)	0.08	0.00
DX	722	Once	1942 (4.82)	2543 (3.82)	0.05	0.00
RX	00378400305	Frequent	130 (0.32)	93 (0.14)	0.04	0.00
DX	296	Once	3579 (8.88)	4860 (7.31)	0.06	0.00
DX	314	Once	2435 (6.04)	3434 (5.16)	0.04	0.00
RX	00781183001	Once	1409 (3.5)	1796 (2.7)	0.05	0.00
RX	53746010901	Once	647 (1.61)	747 (1.12)	0.04	0.00
RX	00378232105	Once	648 (1.61)	585 (0.88)	0.07	0.00
DX	272	Frequent	1210 (3)	1465 (2.2)	0.05	0.00
DX	724	Once	7412 (18.4)	11572 (17.4)	0.03	0.00
RX	00093083201	Once	1607 (3.99)	1355 (2.04)	0.11	0.00
DX	401	Frequent	713 (1.77)	919 (1.38)	0.03	0.00
DX	614	Frequent	137 (0.34)	313 (0.47)	0.02	0.00
RX	00781107705	Once	487 (1.21)	470 (0.71)	0.05	0.00
DX	723	Once	4371 (10.85)	6214 (9.34)	0.05	0.00
RX	59746017710	Once	890 (2.21)	1076 (1.62)	0.04	0.00
RX	00378400305	Once	428 (1.06)	411 (0.62)	0.05	0.00
DX	616	Frequent	1096 (2.72)	2373 (3.57)	0.05	0.00
DX	614	Once	544 (1.35)	1038 (1.56)	0.02	0.00
DX	477	Frequent	1772 (4.4)	2309 (3.47)	0.05	0.00
DX	787	Once	6218 (15.43)	9632 (14.48)	0.03	0.00
RX	00603254421	Once	308 (0.76)	335 (0.5)	0.03	0.00
DX	628	Sporadic	1687 (4.19)	2951 (4.44)	0.01	0.00
DX	218	Once	677 (1.68)	1381 (2.08)	0.03	0.00
DX	640	Once	2583 (6.41)	4993 (7.51)	0.04	0.00
DX	787	Frequent	2383 (5.92)	3496 (5.26)	0.03	0.00

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 8. Baseline Demographic and Health Characteristics, Pre-Pregnancy Depression Cohort, Any SSRI**

Characteristics at the End of Pregnancy			Had an SSRI Prescription	Did not have an SSRI Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences
			n (%)	n (%)		
Age						
	15-19		1765 (6.21)	6764 (8.63)	0.09	0.00
	20-24		3260 (11.47)	11485 (14.66)	0.09	0.00
	25-29		6442 (22.66)	17468 (22.29)	0.01	0.00
	30-34		9157 (32.2)	23482 (29.97)	0.05	0.00
	35-39		6036 (21.23)	14807 (18.9)	0.06	0.00
	40-44		1774 (6.24)	4348 (5.55)	0.03	0.00
Year						
	2008 -2011		12134 (42.67)	34327 (43.81)	0.02	0.00
	2012-2015		16300 (57.33)	44027 (56.19)	0.02	0.00
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
	Sexually Transmitted Infection		531 (1.87)	1760 (2.25)	0.03	0.00
	Assisted Reproductive Technology		208 (0.73)	538 (0.69)	0.01	0.00
	Pelvic Infection		259 (0.91)	865 (1.1)	0.02	0.00
	Intrauterine Device		1407 (4.95)	4054 (5.17)	0.01	0.00
	Smoking		1953 (6.87)	5884 (7.51)	0.02	0.00
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	300	Once	11331 (39.85)	23770 (30.34)	0.20	0.00
DX	300	Sporadic	7118 (25.03)	13541 (17.28)	0.19	0.01
DX	616	Once	3118 (10.97)	10468 (13.36)	0.07	0.00
DX	623	Once	1664 (5.85)	5520 (7.04)	0.05	0.00
DX	789	Once	6218 (21.87)	18080 (23.07)	0.03	0.00
DX	V26	Once	2158 (7.59)	5399 (6.89)	0.03	0.00
DX	626	Once	6753 (23.75)	19956 (25.47)	0.04	0.00
DX	625	Once	4193 (14.75)	12385 (15.81)	0.03	0.00
RX	59746000103	Once	1027 (3.61)	2290 (2.92)	0.04	0.00
RX	00093007401	Once	1065 (3.75)	2225 (2.84)	0.05	0.00
RX	00093007401	Sporadic	626 (2.2)	1154 (1.47)	0.05	0.00
RX	00406051201	Once	1223 (4.3)	2984 (3.81)	0.02	0.00
DX	626	Frequent	2905 (10.22)	8696 (11.1)	0.03	0.00
DX	300	Frequent	3813 (13.41)	6815 (8.7)	0.15	0.00
DX	629	Once	551 (1.94)	1285 (1.64)	0.02	0.00
RX	63304077205	Frequent	155 (0.55)	167 (0.21)	0.05	0.00
DX	401	Once	1841 (6.47)	4667 (5.96)	0.02	0.00
RX	00591024005	Once	195 (0.69)	315 (0.4)	0.04	0.00
DX	530	Once	2135 (7.51)	5261 (6.71)	0.03	0.00
RX	67253090150	Frequent	131 (0.46)	180 (0.23)	0.04	0.00
RX	00378191010	Once	611 (2.15)	887 (1.13)	0.08	0.00
RX	00378232105	Once	487 (1.71)	746 (0.95)	0.07	0.00
DX	599	Once	4339 (15.26)	13467 (17.19)	0.05	0.00
DX	327	Once	677 (2.38)	1362 (1.74)	0.05	0.00
DX	401	Sporadic	1118 (3.93)	2670 (3.41)	0.03	0.00
DX	216	Once	2299 (8.09)	5373 (6.86)	0.05	0.00
DX	780	Once	9702 (34.12)	25409 (32.43)	0.04	0.01
DX	614	Frequent	93 (0.33)	357 (0.46)	0.02	0.00
DX	629	Frequent	163 (0.57)	344 (0.44)	0.02	0.00
RX	49884070155	Once	424 (1.49)	1023 (1.31)	0.02	0.00
DX	V26	Frequent	552 (1.94)	1362 (1.74)	0.02	0.00

DX	625	Frequent	1589 (5.59)	4806 (6.13)	0.02	0.00
DX	616	Frequent	764 (2.69)	2705 (3.45)	0.04	0.00
RX	00378400305	Frequent	86 (0.3)	137 (0.17)	0.03	0.00
RX	00093007401	Frequent	323 (1.14)	552 (0.7)	0.05	0.00
RX	00781107705	Once	336 (1.18)	621 (0.79)	0.04	0.00
RX	00093083201	Once	1092 (3.84)	1870 (2.39)	0.08	0.00
DX	620	Once	1946 (6.84)	5677 (7.25)	0.02	0.00
RX	59310057922	Once	530 (1.86)	1118 (1.43)	0.03	0.00
RX	67253090150	Once	426 (1.5)	625 (0.8)	0.07	0.00
RX	00378400305	Once	294 (1.03)	545 (0.7)	0.04	0.00
DX	V74	Once	2512 (8.83)	7997 (10.21)	0.05	0.00
RX	53746010901	Once	439 (1.54)	955 (1.22)	0.03	0.00
RX	00378075110	Once	599 (2.11)	1419 (1.81)	0.02	0.00
PR	196	Once	1625 (5.71)	3998 (5.1)	0.03	0.00
DX	041	Once	371 (1.3)	1272 (1.62)	0.03	0.00
RX	00555032302	Frequent	60 (0.21)	93 (0.12)	0.02	0.00
RX	00378191010	Frequent	211 (0.74)	260 (0.33)	0.06	0.00
DX	272	Frequent	823 (2.89)	1852 (2.36)	0.03	0.00
DX	614	Once	389 (1.37)	1193 (1.52)	0.01	0.00
DX	218	Once	488 (1.72)	1570 (2)	0.02	0.00
RX	00591024005	Frequent	63 (0.22)	99 (0.13)	0.02	0.00
DX	789	Frequent	1724 (6.06)	4994 (6.37)	0.01	0.00
RX	00603388728	Once	183 (0.64)	399 (0.51)	0.02	0.00
RX	00093007301	Frequent	129 (0.45)	200 (0.26)	0.03	0.00
RX	00781107705	Frequent	107 (0.38)	156 (0.2)	0.03	0.00
DX	477	Frequent	1208 (4.25)	2873 (3.67)	0.03	0.00
DX	V72	Frequent	4041 (14.21)	11547 (14.74)	0.01	0.00
RX	00173069600	Once	319 (1.12)	685 (0.87)	0.02	0.00
RX	00093714618	Once	2161 (7.6)	5086 (6.49)	0.04	0.00

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 9. Baseline Demographic and Health Characteristics, Pre-Pregnancy Depression Cohort, Any SNRI**

Characteristics at the End of Pregnancy		Had an SNRI Prescription	Did not have an SNRI Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences	
		n (%)	n (%)			
<b>Age</b>						
15-19		196 (2.96)	8333 (8.32)	0.23	0.03	
20-24		775 (11.71)	13970 (13.95)	0.07	0.00	
25-29		1427 (21.56)	22483 (22.45)	0.02	0.01	
30-34		2184 (32.99)	30455 (30.4)	0.06	0.01	
35-39		1538 (23.23)	19305 (19.27)	0.10	0.00	
40-44		500 (7.55)	5622 (5.61)	0.08	0.01	
<b>Year</b>						
2008 -2011		3107 (46.93)	43354 (43.28)	0.07	0.01	
2012-2015		3513 (53.07)	56814 (56.72)	0.07	0.01	
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
Sexually Transmitted Infection		135 (2.04)	2156 (2.15)	0.01	0.01	
Assisted Reproductive Technology		23 (0.35)	723 (0.72)	0.05	0.00	
Pelvic Infection		58 (0.88)	1066 (1.06)	0.02	0.00	
Intrauterine Device		358 (5.41)	5103 (5.09)	0.01	0.00	
Smoking		530 (8.01)	7307 (7.29)	0.03	0.01	
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	401	Once	580 (8.76)	5928 (5.92)	0.11	0.02
DX	729	Once	1254 (18.94)	13216 (13.19)	0.16	0.01
DX	729	Frequent	635 (9.59)	5281 (5.27)	0.17	0.01
DX	628	Once	434 (6.56)	8084 (8.07)	0.06	0.01
DX	628	Sporadic	209 (3.16)	4429 (4.42)	0.07	0.00
DX	724	Sporadic	874 (13.2)	9988 (9.97)	0.10	0.01
RX	00093007401	Once	376 (5.68)	2914 (2.91)	0.14	0.02
DX	780	Once	2591 (39.14)	32520 (32.47)	0.14	0.03
DX	401	Sporadic	357 (5.39)	3431 (3.43)	0.10	0.02
DX	724	Once	1400 (21.15)	17584 (17.55)	0.09	0.01
DX	V26	Once	371 (5.6)	7186 (7.17)	0.06	0.00
DX	722	Once	463 (6.99)	4022 (4.02)	0.13	0.00
DX	346	Once	824 (12.45)	8580 (8.57)	0.13	0.03
RX	59746000103	Once	305 (4.61)	3012 (3.01)	0.08	0.02
DX	300	Once	2724 (41.15)	32377 (32.32)	0.18	0.04
DX	300	Sporadic	1763 (26.63)	18896 (18.86)	0.19	0.04
DX	346	Frequent	293 (4.43)	2278 (2.27)	0.12	0.02
RX	00093007401	Sporadic	214 (3.23)	1566 (1.56)	0.11	0.03
DX	327	Once	235 (3.55)	1804 (1.8)	0.11	0.01
DX	338	Once	327 (4.94)	3129 (3.12)	0.09	0.01
RX	00603388728	Once	73 (1.1)	509 (0.51)	0.07	0.01
DX	719	Frequent	373 (5.63)	4079 (4.07)	0.07	0.01
RX	00406051201	Once	323 (4.88)	3884 (3.88)	0.05	0.02
DX	780	Frequent	1300 (19.64)	13758 (13.73)	0.16	0.03
DX	V20	Once	38 (0.57)	1608 (1.61)	0.10	0.00
DX	787	Once	1139 (17.21)	14711 (14.69)	0.07	0.01
DX	723	Once	879 (13.28)	9706 (9.69)	0.11	0.01
DX	V58	Once	792 (11.96)	8064 (8.05)	0.13	0.00
DX	401	Frequent	156 (2.36)	1476 (1.47)	0.06	0.01
DX	V23	Sporadic	78 (1.18)	1966 (1.96)	0.06	0.01
RX	00378191210	Once	88 (1.33)	591 (0.59)	0.08	0.01

RX	49884070155	Once	61 (0.92)	1386 (1.38)	0.04	0.01
DX	530	Once	558 (8.43)	6838 (6.83)	0.06	0.00
DX	V23	Frequent	46 (0.69)	1250 (1.25)	0.06	0.02
DX	786	Frequent	529 (7.99)	6357 (6.35)	0.06	0.01
DX	719	Once	1181 (17.84)	14560 (14.54)	0.09	0.01
RX	65162062711	Frequent	86 (1.3)	470 (0.47)	0.09	0.01
DX	784	Frequent	527 (7.96)	5594 (5.58)	0.09	0.00
DX	784	Once	1181 (17.84)	14836 (14.81)	0.08	0.00
DX	722	Frequent	138 (2.08)	1015 (1.01)	0.09	0.01
RX	00378191210	Sporadic	56 (0.85)	345 (0.34)	0.07	0.01
DX	278	Once	617 (9.32)	7234 (7.22)	0.08	0.00
DX	789	Frequent	479 (7.24)	6239 (6.23)	0.04	0.00
RX	00781183001	Once	291 (4.4)	2914 (2.91)	0.08	0.02
DX	V23	Once	154 (2.33)	3744 (3.74)	0.08	0.01
DX	628	Frequent	106 (1.6)	2151 (2.15)	0.04	0.00
DX	296	Once	685 (10.35)	7754 (7.74)	0.09	0.02
RX	00378400305	Frequent	32 (0.48)	191 (0.19)	0.05	0.01
RX	00378075110	Once	174 (2.63)	1844 (1.84)	0.05	0.01
DX	787	Frequent	451 (6.81)	5428 (5.42)	0.06	0.00
DX	786	Once	1401 (21.16)	18573 (18.54)	0.07	0.01
PR	196	Once	250 (3.78)	5373 (5.36)	0.08	0.01
DX	626	Once	1537 (23.22)	25172 (25.13)	0.04	0.00
DX	640	Once	336 (5.08)	7240 (7.23)	0.09	0.01
DX	272	Frequent	251 (3.79)	2424 (2.42)	0.08	0.00
DX	272	Once	639 (9.65)	6748 (6.74)	0.11	0.01
DX	728	Once	494 (7.46)	5494 (5.48)	0.08	0.01
RX	59746017710	Once	187 (2.82)	1779 (1.78)	0.07	0.01
DX	724	Frequent	446 (6.74)	4873 (4.86)	0.08	0.01
DX	V26	Frequent	94 (1.42)	1820 (1.82)	0.03	0.00

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile



**eTable 10. Baseline Demographic and Health Characteristics, Pre-Pregnancy Depression Cohort, Any TCA**

Characteristics at the End of Pregnancy			Had a TCA Prescription	Did not have a TCA Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences
			n (%)	n (%)		
Age						
	15-19		62 (5.98)	8467 (8.01)	0.08	0.12
	20-24		144 (13.89)	14601 (13.81)	0.00	0.04
	25-29		245 (23.63)	23665 (22.38)	0.03	0.11
	30-34		313 (30.18)	32326 (30.57)	0.01	0.05
	35-39		197 (19)	20646 (19.52)	0.01	0.05
	40-44		76 (7.33)	6046 (5.72)	0.07	0.00
Year						
	2008 -2011		449 (43.3)	46012 (43.51)	0.00	0.04
	2012-2015		588 (56.7)	59739 (56.49)	0.00	0.04
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
	Sexually Transmitted Infection		21 (2.03)	2270 (2.15)	0.01	0.00
	Assisted Reproductive Technology	Suppressed		742 (0.7)	-	-
	Pelvic Infection		20 (1.93)	1104 (1.04)	0.07	0.03
	Intrauterine Device		54 (5.21)	5407 (5.11)	0.00	0.04
	Smoking		119 (11.48)	7718 (7.3)	0.14	0.06
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	346	Once	378 (36.45)	9026 (8.54)	0.71	0.15
DX	789	Frequent	167 (16.1)	6551 (6.19)	0.32	0.15
DX	346	Frequent	162 (15.62)	2409 (2.28)	0.48	0.06
DX	789	Once	355 (34.23)	23943 (22.64)	0.26	0.17
DX	784	Once	373 (35.97)	15644 (14.79)	0.50	0.19
DX	784	Frequent	220 (21.22)	5901 (5.58)	0.47	0.15
DX	729	Once	293 (28.25)	14177 (13.41)	0.37	0.10
DX	729	Frequent	159 (15.33)	5757 (5.44)	0.33	0.12
RX	00406051201	Once	84 (8.1)	4123 (3.9)	0.18	0.01
DX	724	Once	296 (28.54)	18688 (17.67)	0.26	0.13
DX	787	Once	272 (26.23)	15578 (14.73)	0.29	0.05
DX	625	Once	239 (23.05)	16339 (15.45)	0.19	0.06
DX	787	Frequent	138 (13.31)	5741 (5.43)	0.27	0.05
DX	338	Once	102 (9.84)	3354 (3.17)	0.27	0.13
DX	625	Frequent	128 (12.34)	6267 (5.93)	0.22	0.11
DX	780	Once	514 (49.57)	34597 (32.72)	0.35	0.17
DX	724	Sporadic	174 (16.78)	10688 (10.11)	0.20	0.10
DX	628	Once	55 (5.3)	8463 (8)	0.11	0.08
DX	401	Once	101 (9.74)	6407 (6.06)	0.14	0.11
DX	617	Once	48 (4.63)	2223 (2.1)	0.14	0.10
DX	530	Once	131 (12.63)	7265 (6.87)	0.20	0.09
DX	782	Once	156 (15.04)	8651 (8.18)	0.22	0.03
RX	00603254421	Once	27 (2.6)	616 (0.58)	0.16	0.01
DX	719	Once	259 (24.98)	15482 (14.64)	0.26	0.04
RX	00378075110	Once	48 (4.63)	1970 (1.86)	0.16	0.10
RX	59746017710	Once	60 (5.79)	1906 (1.8)	0.21	0.09
DX	628	Sporadic	27 (2.6)	4611 (4.36)	0.10	0.09
RX	00378191210	Once	28 (2.7)	651 (0.62)	0.16	0.05
DX	723	Once	204 (19.67)	10381 (9.82)	0.28	0.05
DX	722	Once	97 (9.35)	4388 (4.15)	0.21	0.06
RX	00378191210	Sporadic	19 (1.83)	382 (0.36)	0.14	0.03

DX	401	Sporadic	69 (6.65)	3719 (3.52)	0.14	0.11
DX	786	Once	284 (27.39)	19690 (18.62)	0.21	0.16
RX	59746000103	Once	63 (6.08)	3254 (3.08)	0.14	0.02
RX	00603388728	Once	19 (1.83)	563 (0.53)	0.12	0.06
DX	780	Frequent	294 (28.35)	14764 (13.96)	0.36	0.22
RX	00093007401	Once	74 (7.14)	3216 (3.04)	0.19	0.06
DX	614	Once	29 (2.8)	1553 (1.47)	0.09	0.00
RX	00093005805	Once	33 (3.18)	1083 (1.02)	0.15	0.01
DX	620	Once	104 (10.03)	7519 (7.11)	0.10	0.08
DX	719	Frequent	76 (7.33)	4376 (4.14)	0.14	0.02
DX	788	Once	168 (16.2)	10145 (9.59)	0.20	0.10
RX	00781183001	Once	71 (6.85)	3134 (2.96)	0.18	0.05
DX	535	Once	63 (6.08)	3293 (3.11)	0.14	0.04
RX	00093007401	Sporadic	47 (4.53)	1733 (1.64)	0.17	0.05
DX	785	Frequent	55 (5.3)	2506 (2.37)	0.15	0.11
DX	786	Frequent	107 (10.32)	6779 (6.41)	0.14	0.11
DX	564	Frequent	66 (6.36)	2043 (1.93)	0.22	0.07
DX	V58	Once	171 (16.49)	8685 (8.21)	0.25	0.10
DX	305	Once	141 (13.6)	9481 (8.97)	0.15	0.07
DX	338	Frequent	61 (5.88)	1059 (1)	0.27	0.02
DX	569	Once	45 (4.34)	2270 (2.15)	0.12	0.06
DX	300	Once	466 (44.94)	34635 (32.75)	0.25	0.18
DX	626	Frequent	142 (13.69)	11459 (10.84)	0.09	0.11
DX	536	Frequent	18 (1.74)	438 (0.41)	0.13	0.02
RX	00093007401	Frequent	31 (2.99)	844 (0.8)	0.16	0.07
DX	728	Once	107 (10.32)	5881 (5.56)	0.18	0.05
RX	00378191210	Frequent	Suppressed	184 (0.17)	-	-
DX	592	Sporadic	22 (2.12)	911 (0.86)	0.10	0.08
DX	300	Sporadic	305 (29.41)	20354 (19.25)	0.24	0.18

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 11. Baseline Demographic and Health Characteristics, Pre-Pregnancy Depression Cohort, Any ‘Other’ Antidepressant**

Characteristics at the End of Pregnancy	Had an ‘Other’ Antidepressant Prescription	Did not have an ‘Other’ Antidepressant Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences		
	n (%)	n (%)				
<b>Age</b>						
15-19	431 (4.57)	8098 (8.32)	0.15	0.00		
20-24	1004 (10.64)	13741 (14.11)	0.11	0.00		
25-29	1840 (19.51)	22070 (22.67)	0.08	0.00		
30-34	3142 (33.31)	29497 (30.3)	0.06	0.00		
35-39	2263 (23.99)	18580 (19.08)	0.12	0.01		
40-44	752 (7.97)	5370 (5.52)	0.10	0.00		
<b>Year</b>						
2008 -2011	3919 (41.55)	42542 (43.7)	0.04	0.00		
2012-2015	5513 (58.45)	54814 (56.3)	0.04	0.00		
<b>Medical Conditions in the year before a woman’s last menstrual period</b>						
Sexually Transmitted Infection	193 (2.05)	2098 (2.15)	0.01	0.00		
Assisted Reproductive Technology	65 (0.69)	681 (0.7)	0.00	0.01		
Pelvic Infection	89 (0.94)	1035 (1.06)	0.01	0.00		
Intrauterine Device	538 (5.7)	4923 (5.06)	0.03	0.01		
Smoking	736 (7.8)	7101 (7.29)	0.02	0.00		
<b>Health in the year before a woman’s last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	314	Once	777 (8.24)	5092 (5.23)	0.12	0.01
DX	296	Once	1145 (12.14)	7294 (7.49)	0.16	0.02
DX	401	Once	694 (7.36)	5814 (5.97)	0.06	0.01
RX	00093007401	Once	475 (5.04)	2815 (2.89)	0.11	0.01
RX	00093007401	Sporadic	296 (3.14)	1484 (1.52)	0.11	0.01
RX	00406051201	Once	459 (4.87)	3748 (3.85)	0.05	0.00
RX	00378191210	Once	134 (1.42)	545 (0.56)	0.09	0.01
DX	780	Once	3484 (36.94)	31627 (32.49)	0.09	0.01
DX	724	Sporadic	1108 (11.75)	9754 (10.02)	0.06	0.02
RX	00378191210	Sporadic	82 (0.87)	319 (0.33)	0.07	0.01
DX	296	Sporadic	646 (6.85)	3875 (3.98)	0.13	0.03
DX	626	Once	2153 (22.83)	24556 (25.22)	0.06	0.00
DX	616	Once	1034 (10.96)	12552 (12.89)	0.06	0.01
DX	724	Once	1859 (19.71)	17125 (17.59)	0.05	0.01
DX	629	Frequent	19 (0.2)	488 (0.5)	0.05	0.00
DX	401	Sporadic	423 (4.48)	3365 (3.46)	0.05	0.01
RX	59746000103	Once	376 (3.99)	2941 (3.02)	0.05	0.01
DX	314	Sporadic	529 (5.61)	3445 (3.54)	0.10	0.02
DX	V58	Once	1064 (11.28)	7792 (8)	0.11	0.01
DX	327	Once	282 (2.99)	1757 (1.8)	0.08	0.01
DX	305	Once	1016 (10.77)	8606 (8.84)	0.07	0.01
PR	196	Once	356 (3.77)	5267 (5.41)	0.08	0.00
DX	V23	Frequent	74 (0.78)	1222 (1.26)	0.05	0.00
DX	722	Once	528 (5.6)	3957 (4.06)	0.07	0.01
DX	626	Frequent	918 (9.73)	10683 (10.97)	0.04	0.00
RX	00555032302	Frequent	34 (0.36)	119 (0.12)	0.05	0.01
DX	729	Once	1439 (15.26)	13031 (13.38)	0.05	0.01
DX	V20	Once	82 (0.87)	1564 (1.61)	0.07	0.01
DX	650	Once	238 (2.52)	3699 (3.8)	0.07	0.00
DX	729	Frequent	641 (6.8)	5275 (5.42)	0.06	0.00

DX	300	Sporadic	2180 (23.11)	18479 (18.98)	0.10	0.02
DX	V23	Sporadic	133 (1.41)	1911 (1.96)	0.04	0.01
RX	00603388728	Once	81 (0.86)	501 (0.51)	0.04	0.00
DX	629	Once	130 (1.38)	1706 (1.75)	0.03	0.01
DX	780	Frequent	1652 (17.51)	13406 (13.77)	0.10	0.01
RX	00781183001	Once	382 (4.05)	2823 (2.9)	0.06	0.01
DX	628	Sporadic	373 (3.95)	4265 (4.38)	0.02	0.00
DX	719	Frequent	470 (4.98)	3982 (4.09)	0.04	0.01
RX	13668000805	Once	172 (1.82)	712 (0.73)	0.10	0.01
RX	00378075110	Once	232 (2.46)	1786 (1.83)	0.04	0.00
RX	00093007401	Frequent	145 (1.54)	730 (0.75)	0.07	0.01
RX	00093005805	Once	148 (1.57)	968 (0.99)	0.05	0.00
DX	300	Once	3456 (36.64)	31645 (32.5)	0.09	0.01
DX	V22	Sporadic	443 (4.7)	7015 (7.21)	0.11	0.01
RX	16252051501	Once	441 (4.68)	3244 (3.33)	0.07	0.01
RX	59417010510	Once	97 (1.03)	418 (0.43)	0.07	0.01
RX	64720013510	Once	92 (0.98)	449 (0.46)	0.06	0.01
DX	640	Once	526 (5.58)	7050 (7.24)	0.07	0.00
PR	5940	Once	235 (2.49)	3701 (3.8)	0.08	0.01
DX	V23	Once	263 (2.79)	3635 (3.73)	0.05	0.02
DX	305	Frequent	471 (4.99)	3685 (3.79)	0.06	0.01
DX	723	Once	1108 (11.75)	9477 (9.73)	0.07	0.00
RX	13668000805	Sporadic	104 (1.1)	385 (0.4)	0.08	0.01
DX	789	Once	2062 (21.86)	22236 (22.84)	0.02	0.01
DX	346	Once	951 (10.08)	8453 (8.68)	0.05	0.01
DX	628	Frequent	169 (1.79)	2088 (2.14)	0.03	0.01
DX	530	Once	732 (7.76)	6664 (6.84)	0.04	0.01
DX	278	Once	804 (8.52)	7047 (7.24)	0.05	0.00
RX	59746017710	Once	239 (2.53)	1727 (1.77)	0.05	0.00
RX	67253090150	Frequent	50 (0.53)	261 (0.27)	0.04	0.00

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 12. Baseline Demographic and Health Characteristics, Full Cohort, Pre-Pregnancy Depression**

Characteristics at the End of Pregnancy			Had Pre-Pregnancy Depression	Did not have Pre-Pregnancy Depression	Unweighted Standardized Differences	IPT Weighted Standardized Differences
			n (%)	n (%)		
<b>Age</b>						
	15-19		8529 (7.99)	75799 (4.75)	0.13	0.01
	20-24		14745 (13.81)	185847 (11.64)	0.07	0.01
	25-29		23910 (22.39)	429593 (26.91)	0.11	0.02
	30-34		32639 (30.56)	540259 (33.84)	0.07	0.01
	35-39		20843 (19.52)	287441 (18)	0.04	0.02
	40-44		6122 (5.73)	77518 (4.86)	0.04	0.02
<b>Year</b>						
	2008 -2011		46461 (43.51)	724275 (45.37)	0.04	0.00
	2012-2015		60327 (56.49)	872182 (54.63)	0.04	0.00
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
	Sexually Transmitted Infection		2291 (2.15)	21198 (1.33)	0.06	0.01
	Assisted Reproductive Technology		746 (0.7)	12228 (0.77)	0.01	0.01
	Pelvic Infection		1124 (1.05)	8081 (0.51)	0.06	0.01
	Intrauterine Device		5461 (5.11)	56221 (3.52)	0.08	0.02
	Smoking		7837 (7.34)	32657 (2.05)	0.25	0.03
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	300	Once	35101 (32.87)	72512 (4.54)	0.78	0.03
DX	305	Once	9622 (9.01)	30014 (1.88)	0.32	0.02
DX	780	Once	35111 (32.88)	231825 (14.52)	0.44	0.07
DX	300	Sporadic	20659 (19.35)	33320 (2.09)	0.58	0.01
DX	789	Once	24298 (22.75)	206232 (12.92)	0.26	0.04
DX	625	Once	16578 (15.52)	152224 (9.54)	0.18	0.04
DX	789	Frequent	11967 (11.21)	83898 (5.26)	0.22	0.03
DX	780	Frequent	15058 (14.1)	70351 (4.41)	0.34	0.04
DX	786	Once	19974 (18.7)	163742 (10.26)	0.24	0.05
DX	278	Once	7851 (7.35)	47765 (2.99)	0.20	0.03
DX	625	Frequent	6395 (5.99)	50375 (3.16)	0.14	0.02
DX	787	Once	15850 (14.84)	107572 (6.74)	0.26	0.04
DX	300	Frequent	14242 (13.34)	20899 (1.31)	0.47	0.00
DX	626	Once	26709 (25.01)	315990 (19.79)	0.13	0.03
DX	305	Frequent	4156 (3.89)	8026 (0.5)	0.23	0.00
DX	729	Once	14470 (13.55)	108781 (6.81)	0.22	0.05
DX	784	Once	16017 (15)	116510 (7.3)	0.25	0.05
DX	309	Once	14351 (13.44)	41597 (2.61)	0.41	0.03
DX	724	Once	18984 (17.78)	148194 (9.28)	0.25	0.05
DX	401	Once	6508 (6.09)	51595 (3.23)	0.14	0.03
DX	530	Once	7396 (6.93)	49113 (3.08)	0.18	0.04
DX	620	Once	7623 (7.14)	80746 (5.06)	0.09	0.02
DX	V58	Once	8856 (8.29)	48787 (3.06)	0.23	0.03
DX	616	Once	13586 (12.72)	138981 (8.71)	0.13	0.03
DX	719	Once	15741 (14.74)	127954 (8.01)	0.21	0.04
DX	786	Frequent	6886 (6.45)	44437 (2.78)	0.18	0.04
DX	346	Once	9404 (8.81)	55529 (3.48)	0.22	0.04

DX	278	Frequent	3564 (3.34)	16874 (1.06)	0.16	0.02
DX	626	Frequent	11601 (10.86)	134104 (8.4)	0.08	0.03
DX	401	Sporadic	3788 (3.55)	27185 (1.7)	0.12	0.02
DX	724	Sporadic	10862 (10.17)	78295 (4.9)	0.20	0.04
DX	599	Once	17806 (16.67)	170215 (10.66)	0.18	0.03
DX	V74	Once	10509 (9.84)	103634 (6.49)	0.12	0.02
DX	614	Once	1582 (1.48)	15482 (0.97)	0.05	0.01
DX	784	Frequent	6121 (5.73)	35915 (2.25)	0.18	0.03
DX	787	Frequent	5879 (5.51)	30831 (1.93)	0.19	0.03
DX	346	Frequent	4484 (4.2)	21056 (1.32)	0.18	0.02
DX	788	Once	10313 (9.66)	85507 (5.36)	0.16	0.02
DX	729	Frequent	5916 (5.54)	37844 (2.37)	0.16	0.03
DX	309	Sporadic	8138 (7.62)	24098 (1.51)	0.30	0.02
DX	493	Once	8407 (7.87)	61527 (3.85)	0.17	0.03
DX	401	Frequent	2479 (2.32)	15859 (0.99)	0.10	0.02
DX	530	Frequent	2809 (2.63)	16175 (1.01)	0.12	0.03
DX	268	Once	4151 (3.89)	32529 (2.04)	0.11	0.02
RX	00093007401	Once	3290 (3.08)	9467 (0.59)	0.19	0.02
DX	272	Once	7387 (6.92)	65092 (4.08)	0.12	0.03
RX	00093083201	Once	2962 (2.77)	4296 (0.27)	0.21	0.01
DX	623	Once	7184 (6.73)	69412 (4.35)	0.10	0.02
DX	338	Once	3456 (3.24)	19067 (1.19)	0.14	0.01
DX	782	Once	8807 (8.25)	71910 (4.5)	0.15	0.04
DX	959	Once	5924 (5.55)	37211 (2.33)	0.17	0.02
DX	783	Once	5554 (5.2)	32512 (2.04)	0.17	0.03
DX	256	Once	5280 (4.94)	65641 (4.11)	0.04	0.02
DX	723	Once	10585 (9.91)	82239 (5.15)	0.18	0.04
DX	617	Once	2271 (2.13)	22281 (1.4)	0.06	0.01
DX	V58	Frequent	2942 (2.75)	14254 (0.89)	0.14	0.02
DX	493	Frequent	3736 (3.5)	23439 (1.47)	0.13	0.02
DX	620	Frequent	2853 (2.67)	29651 (1.86)	0.05	0.01
DX	785	Once	7153 (6.7)	56448 (3.54)	0.14	0.04
RX	65162062711	Once	1771 (1.66)	9807 (0.61)	0.10	0.01

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 13. Baseline Demographic and Health Characteristics, No Pre-Pregnancy Depression Cohort, Any Antidepressant**

Characteristics at the End of Pregnancy			Had an Antidepressant Prescription	Did not have an Antidepressant Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences
			n (%)	n (%)		
<b>Age</b>						
15-19			1715 (2.82)	74084 (4.82)	0.10	0.02
20-24			5343 (8.78)	180504 (11.75)	0.10	0.02
25-29			14701 (24.17)	414892 (27.02)	0.07	0.02
30-34			21552 (35.43)	518707 (33.78)	0.03	0.01
35-39			13463 (22.13)	273978 (17.84)	0.11	0.02
40-44			4055 (6.67)	73463 (4.78)	0.08	0.02
<b>Year</b>						
2008 -2011			28073 (46.15)	696202 (45.34)	0.02	0.01
2012-2015			32756 (53.85)	839426 (54.66)	0.02	0.01
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
Sexually Transmitted Infection			839 (1.38)	20359 (1.33)	0.00	0.01
Assisted Reproductive Technology			451 (0.74)	11777 (0.77)	0.00	0.01
Pelvic Infection			357 (0.59)	7724 (0.5)	0.01	0.02
Intrauterine Device			2896 (4.76)	53325 (3.47)	0.06	0.02
Smoking			2502 (4.11)	30155 (1.96)	0.13	0.04
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	300	Once	17395 (28.6)	55117 (3.59)	0.72	0.05
DX	780	Once	17466 (28.71)	214359 (13.96)	0.37	0.09
DX	625	Once	7991 (13.14)	144233 (9.39)	0.12	0.07
DX	789	Once	11011 (18.1)	195221 (12.71)	0.15	0.06
DX	401	Once	3803 (6.25)	47792 (3.11)	0.15	0.03
DX	780	Frequent	6857 (11.27)	63494 (4.13)	0.27	0.07
DX	786	Once	9539 (15.68)	154203 (10.04)	0.17	0.07
DX	305	Once	2496 (4.1)	27518 (1.79)	0.14	0.04
DX	346	Once	5601 (9.21)	49928 (3.25)	0.25	0.06
DX	789	Frequent	5184 (8.52)	78714 (5.13)	0.14	0.05
DX	784	Once	8041 (13.22)	108469 (7.06)	0.20	0.07
DX	729	Once	7163 (11.78)	101618 (6.62)	0.18	0.06
DX	530	Once	3801 (6.25)	45312 (2.95)	0.16	0.05
DX	625	Frequent	2868 (4.71)	47507 (3.09)	0.08	0.05
DX	787	Once	7199 (11.83)	100373 (6.54)	0.18	0.06
DX	401	Sporadic	2111 (3.47)	25074 (1.63)	0.12	0.03
DX	V58	Once	4150 (6.82)	44637 (2.91)	0.18	0.04
DX	724	Once	9229 (15.17)	138965 (9.05)	0.19	0.06
DX	719	Once	7742 (12.73)	120212 (7.83)	0.16	0.05
DX	346	Frequent	2702 (4.44)	18354 (1.2)	0.20	0.05
DX	786	Frequent	3164 (5.2)	41273 (2.69)	0.13	0.06
DX	300	Frequent	6110 (10.04)	14789 (0.96)	0.41	0.02
DX	272	Once	4180 (6.87)	60912 (3.97)	0.13	0.03
DX	256	Once	3033 (4.99)	62608 (4.08)	0.04	0.03
DX	278	Once	2742 (4.51)	45023 (2.93)	0.08	0.03
DX	620	Once	3706 (6.09)	77040 (5.02)	0.05	0.04
DX	784	Frequent	3135 (5.15)	32780 (2.13)	0.16	0.06
DX	626	Once	13270 (21.82)	302720 (19.71)	0.05	0.06
DX	296	Once	2971 (4.88)	8113 (0.53)	0.27	0.03
DX	617	Once	1291 (2.12)	20990 (1.37)	0.06	0.02
DX	309	Once	5102 (8.39)	36495 (2.38)	0.27	0.07

RX	65162062711	Once	991 (1.63)	8816 (0.57)	0.10	0.03
DX	530	Frequent	1368 (2.25)	14807 (0.96)	0.10	0.04
DX	244	Once	5157 (8.48)	77777 (5.06)	0.14	0.04
DX	401	Frequent	1229 (2.02)	14630 (0.95)	0.09	0.02
RX	00228202996	Once	1020 (1.68)	3848 (0.25)	0.15	0.03
DX	724	Sporadic	5188 (8.53)	73107 (4.76)	0.15	0.05
RX	00093083201	Once	1408 (2.31)	2888 (0.19)	0.19	0.02
DX	729	Frequent	2896 (4.76)	34948 (2.28)	0.14	0.04
DX	723	Once	5718 (9.4)	76521 (4.98)	0.17	0.05
DX	785	Once	3761 (6.18)	52687 (3.43)	0.13	0.05
RX	00093007401	Frequent	743 (1.22)	2295 (0.15)	0.13	0.01
RX	00093007401	Once	1718 (2.82)	7749 (0.5)	0.18	0.03
RX	00378034505	Once	918 (1.51)	8634 (0.56)	0.09	0.02
DX	V58	Frequent	1286 (2.11)	12968 (0.84)	0.11	0.03
DX	788	Once	4817 (7.92)	80690 (5.25)	0.11	0.04
DX	599	Once	8204 (13.49)	162011 (10.55)	0.09	0.04
DX	722	Once	2325 (3.82)	26751 (1.74)	0.13	0.04
DX	787	Frequent	2510 (4.13)	28321 (1.84)	0.13	0.05
DX	268	Once	1881 (3.09)	30648 (2)	0.07	0.03
DX	466	Once	4975 (8.18)	74790 (4.87)	0.13	0.04
DX	272	Frequent	1468 (2.41)	17311 (1.13)	0.10	0.02
DX	783	Once	2493 (4.1)	30019 (1.95)	0.13	0.04
DX	782	Once	4297 (7.06)	67613 (4.4)	0.11	0.04
RX	16252051501	Once	2097 (3.45)	32512 (2.12)	0.08	0.03
DX	305	Frequent	785 (1.29)	7241 (0.47)	0.09	0.04
RX	53746027205	Once	3736 (6.14)	55577 (3.62)	0.12	0.03
DX	256	Sporadic	1631 (2.68)	34203 (2.23)	0.03	0.03
RX	00228202796	Once	1016 (1.67)	3947 (0.26)	0.15	0.03
DX	620	Frequent	1439 (2.37)	28212 (1.84)	0.04	0.03

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile



**eTable 14. Baseline Demographic and Health Characteristics, No Pre-Pregnancy Depression Cohort, Any SSRI**

Characteristics at the End of Pregnancy		Had an SSRI Prescription	Did not have an SSRI Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences	
		n (%)	n (%)			
Age						
	15-19	1255 (2.87)	74544 (4.8)	0.10	0.02	
	20-24	3815 (8.73)	182032 (11.72)	0.10	0.02	
	25-29	10692 (24.47)	418901 (26.98)	0.06	0.02	
	30-34	15748 (36.04)	524511 (33.78)	0.05	0.01	
	35-39	9460 (21.65)	277981 (17.9)	0.09	0.03	
	40-44	2727 (6.24)	74791 (4.82)	0.06	0.03	
Year						
	2008 -2011	19913 (45.57)	704362 (45.36)	0.00	0.01	
	2012-2015	23784 (54.43)	848398 (54.64)	0.00	0.01	
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
	Sexually Transmitted Infection	580 (1.33)	20618 (1.33)	0.00	0.01	
	Assisted Reproductive Technology	363 (0.83)	11865 (0.76)	0.01	0.01	
	Pelvic Infection	251 (0.57)	7830 (0.5)	0.01	0.02	
	Intrauterine Device	2055 (4.7)	54166 (3.49)	0.06	0.03	
	Smoking	1560 (3.57)	31097 (2)	0.10	0.04	
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	300	Once	13779 (31.53)	58733 (3.78)	0.78	0.06
DX	780	Once	11943 (27.33)	219882 (14.16)	0.33	0.10
DX	625	Once	5589 (12.79)	146635 (9.44)	0.11	0.06
DX	789	Once	7513 (17.19)	198719 (12.8)	0.12	0.06
DX	780	Frequent	4567 (10.45)	65784 (4.24)	0.24	0.08
DX	401	Once	2511 (5.75)	49084 (3.16)	0.13	0.04
DX	786	Once	6720 (15.38)	157022 (10.11)	0.16	0.07
DX	530	Once	2569 (5.88)	46544 (3)	0.14	0.05
DX	305	Once	1558 (3.57)	28456 (1.83)	0.11	0.05
DX	787	Once	4886 (11.18)	102686 (6.61)	0.16	0.06
DX	789	Frequent	3421 (7.83)	80477 (5.18)	0.11	0.06
DX	625	Frequent	1941 (4.44)	48434 (3.12)	0.07	0.04
DX	300	Frequent	4842 (11.08)	16057 (1.03)	0.43	0.03
DX	784	Once	5126 (11.73)	111384 (7.17)	0.16	0.07
DX	401	Sporadic	1382 (3.16)	25803 (1.66)	0.10	0.03
DX	729	Once	4588 (10.5)	104193 (6.71)	0.14	0.06
DX	V58	Once	2754 (6.3)	46033 (2.96)	0.16	0.05
DX	346	Once	3131 (7.17)	52398 (3.37)	0.17	0.06
DX	724	Once	6132 (14.03)	142062 (9.15)	0.15	0.07
DX	256	Once	2180 (4.99)	63461 (4.09)	0.04	0.03
DX	786	Frequent	2172 (4.97)	42265 (2.72)	0.12	0.06
DX	626	Once	9537 (21.83)	306453 (19.74)	0.05	0.05
DX	719	Once	5147 (11.78)	122807 (7.91)	0.13	0.05
DX	272	Once	2895 (6.63)	62197 (4.01)	0.12	0.03
DX	309	Once	3754 (8.59)	37843 (2.44)	0.27	0.08
RX	00228202996	Once	743 (1.7)	4125 (0.27)	0.15	0.05
DX	244	Once	3661 (8.38)	79273 (5.11)	0.13	0.04
DX	620	Once	2592 (5.93)	78154 (5.03)	0.04	0.04
DX	530	Frequent	952 (2.18)	15223 (0.98)	0.10	0.04
DX	617	Once	891 (2.04)	21390 (1.38)	0.05	0.02
RX	00093083201	Once	1015 (2.32)	3281 (0.21)	0.19	0.03

DX	278	Once	1831 (4.19)	45934 (2.96)	0.07	0.02
DX	296	Once	1862 (4.26)	9222 (0.59)	0.24	0.06
DX	785	Once	2709 (6.2)	53739 (3.46)	0.13	0.06
DX	401	Frequent	812 (1.86)	15047 (0.97)	0.08	0.03
DX	784	Frequent	1872 (4.28)	34043 (2.19)	0.12	0.05
DX	346	Frequent	1353 (3.1)	19703 (1.27)	0.13	0.05
DX	724	Sporadic	3406 (7.79)	74889 (4.82)	0.12	0.06
RX	00093007401	Once	1156 (2.65)	8311 (0.54)	0.17	0.04
RX	00093007401	Frequent	493 (1.13)	2545 (0.16)	0.12	0.03
RX	00228202796	Once	774 (1.77)	4189 (0.27)	0.15	0.04
DX	723	Once	3741 (8.56)	78498 (5.06)	0.14	0.06
DX	218	Once	589 (1.35)	28313 (1.82)	0.04	0.01
DX	256	Sporadic	1178 (2.7)	34656 (2.23)	0.03	0.03
RX	00378034505	Once	607 (1.39)	8945 (0.58)	0.08	0.03
RX	65162062711	Once	560 (1.28)	9247 (0.6)	0.07	0.03
DX	V72	Once	26333 (60.26)	842525 (54.26)	0.12	0.05
DX	466	Once	3501 (8.01)	76264 (4.91)	0.13	0.04
DX	272	Frequent	1012 (2.32)	17767 (1.14)	0.09	0.02
DX	787	Frequent	1670 (3.82)	29161 (1.88)	0.12	0.05
DX	V58	Frequent	819 (1.87)	13435 (0.87)	0.09	0.04
RX	00406051201	Once	1507 (3.45)	33372 (2.15)	0.08	0.02
DX	783	Once	1667 (3.81)	30845 (1.99)	0.11	0.04
DX	493	Once	2599 (5.95)	58928 (3.8)	0.10	0.04
DX	788	Once	3223 (7.38)	82284 (5.3)	0.09	0.05
DX	626	Frequent	4029 (9.22)	130075 (8.38)	0.03	0.04
RX	53746027205	Once	2540 (5.81)	56773 (3.66)	0.10	0.03
DX	790	Once	1605 (3.67)	36450 (2.35)	0.08	0.03
DX	268	Once	1263 (2.89)	31266 (2.01)	0.06	0.03
DX	729	Frequent	1717 (3.93)	36127 (2.33)	0.09	0.05

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 15. Baseline Demographic and Health Characteristics, No Pre-Pregnancy Depression Cohort, Any SNRI**

Characteristics at the End of Pregnancy		Had an SNRI Prescription	Did not have an SNRI Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences	
		n (%)	n (%)			
Age						
	15-19	139 (1.97)	75660 (4.76)	0.15	0.05	
	20-24	581 (8.25)	185266 (11.66)	0.11	0.00	
	25-29	1619 (22.98)	427974 (26.93)	0.09	0.00	
	30-34	2397 (34.03)	537862 (33.84)	0.00	0.01	
	35-39	1756 (24.93)	285685 (17.97)	0.17	0.03	
	40-44	552 (7.84)	76966 (4.84)	0.12	0.02	
Year						
	2008 -2011	3530 (50.11)	720745 (45.35)	0.10	0.01	
	2012-2015	3514 (49.89)	868668 (54.65)	0.10	0.01	
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
	Sexually Transmitted Infection	100 (1.42)	21098 (1.33)	0.01	0.00	
	Assisted Reproductive Technology	36 (0.51)	12192 (0.77)	0.03	0.02	
	Pelvic Infection	42 (0.6)	8039 (0.51)	0.01	0.03	
	Intrauterine Device	338 (4.8)	55883 (3.52)	0.06	0.03	
	Smoking	340 (4.83)	32317 (2.03)	0.15	0.08	
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	300	Once	2000 (28.39)	70512 (4.44)	0.68	0.14
DX	780	Once	2399 (34.06)	229426 (14.43)	0.47	0.12
DX	401	Once	605 (8.59)	50990 (3.21)	0.23	0.07
DX	729	Once	1197 (16.99)	107584 (6.77)	0.32	0.09
DX	780	Frequent	1020 (14.48)	69331 (4.36)	0.35	0.11
DX	789	Once	1364 (19.36)	204868 (12.89)	0.18	0.09
DX	401	Sporadic	352 (5)	26833 (1.69)	0.18	0.07
DX	625	Once	919 (13.05)	151305 (9.52)	0.11	0.08
DX	305	Once	341 (4.84)	29673 (1.87)	0.17	0.07
DX	628	Once	445 (6.32)	127406 (8.02)	0.07	0.02
DX	346	Once	761 (10.8)	54768 (3.45)	0.29	0.09
DX	786	Once	1184 (16.81)	162558 (10.23)	0.19	0.11
DX	789	Frequent	677 (9.61)	83221 (5.24)	0.17	0.09
DX	784	Once	1051 (14.92)	115459 (7.26)	0.25	0.08
DX	724	Once	1313 (18.64)	146881 (9.24)	0.27	0.09
DX	719	Once	1126 (15.99)	126828 (7.98)	0.25	0.08
DX	530	Once	500 (7.1)	48613 (3.06)	0.18	0.08
DX	V58	Once	607 (8.62)	48180 (3.03)	0.24	0.06
DX	729	Frequent	594 (8.43)	37250 (2.34)	0.27	0.08
DX	633	Once	35 (0.5)	13317 (0.84)	0.04	0.06
DX	787	Once	924 (13.12)	106648 (6.71)	0.22	0.09
RX	65162062711	Once	187 (2.65)	9620 (0.61)	0.16	0.06
DX	V26	Once	325 (4.61)	104587 (6.58)	0.09	0.00
DX	625	Frequent	350 (4.97)	50025 (3.15)	0.09	0.07
DX	278	Once	387 (5.49)	47378 (2.98)	0.13	0.04
DX	346	Frequent	388 (5.51)	20668 (1.3)	0.23	0.07
DX	272	Once	579 (8.22)	64513 (4.06)	0.17	0.05
DX	628	Sporadic	231 (3.28)	70533 (4.44)	0.06	0.01
DX	786	Frequent	432 (6.13)	44005 (2.77)	0.16	0.07
DX	401	Frequent	200 (2.84)	15659 (0.99)	0.14	0.06
DX	724	Sporadic	763 (10.83)	77532 (4.88)	0.22	0.09

DX	722	Once	415 (5.89)	28661 (1.8)	0.21	0.07
DX	296	Once	460 (6.53)	10624 (0.67)	0.32	0.10
DX	633	Sporadic	23 (0.33)	8191 (0.52)	0.03	0.05
DX	784	Frequent	412 (5.85)	35503 (2.23)	0.18	0.09
DX	530	Frequent	190 (2.7)	15985 (1.01)	0.13	0.05
DX	256	Once	361 (5.12)	65280 (4.11)	0.05	0.05
DX	300	Frequent	754 (10.7)	20145 (1.27)	0.41	0.09
DX	244	Once	672 (9.54)	82262 (5.18)	0.17	0.05
DX	723	Once	811 (11.51)	81428 (5.12)	0.23	0.07
DX	V58	Frequent	208 (2.95)	14046 (0.88)	0.15	0.04
RX	00093083201	Once	219 (3.11)	4077 (0.26)	0.22	0.07
RX	00093007401	Frequent	117 (1.66)	2921 (0.18)	0.15	0.07
DX	628	Frequent	95 (1.35)	32938 (2.07)	0.06	0.01
DX	617	Once	154 (2.19)	22127 (1.39)	0.06	0.02
RX	00378034505	Once	134 (1.9)	9418 (0.59)	0.12	0.05
DX	309	Once	624 (8.86)	40973 (2.58)	0.27	0.08
DX	338	Once	241 (3.42)	18826 (1.18)	0.15	0.05
RX	00093007401	Once	257 (3.65)	9210 (0.58)	0.21	0.09
RX	00228202996	Once	134 (1.9)	4734 (0.3)	0.15	0.07
DX	272	Frequent	223 (3.17)	18556 (1.17)	0.14	0.04
DX	640	Once	309 (4.39)	107329 (6.75)	0.10	0.03
DX	268	Once	255 (3.62)	32274 (2.03)	0.10	0.03
DX	466	Once	690 (9.8)	79075 (4.98)	0.19	0.07
DX	V26	Frequent	81 (1.15)	28685 (1.8)	0.05	0.02
DX	785	Once	471 (6.69)	55977 (3.52)	0.14	0.07
DX	782	Once	577 (8.19)	71333 (4.49)	0.15	0.04
RX	00781183001	Once	305 (4.33)	23430 (1.47)	0.17	0.06
RX	59746000103	Once	369 (5.24)	31198 (1.96)	0.18	0.07
DX	V27	Once	166 (2.36)	68427 (4.31)	0.11	0.03

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 16. Baseline Demographic and Health Characteristics, No Pre-Pregnancy Depression Cohort, Any TCA**

Characteristics at the End of Pregnancy			Had a TCA Prescription	Did not have a TCA Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences
			n (%)	n (%)		
<b>Age</b>						
	15-19		174 (4.71)	75625 (4.75)	0.00	0.05
	20-24		477 (12.9)	185370 (11.64)	0.04	0.01
	25-29		980 (26.5)	428613 (26.91)	0.01	0.01
	30-34		1162 (31.42)	539097 (33.85)	0.05	0.03
	35-39		677 (18.31)	286764 (18)	0.01	0.01
	40-44		228 (6.17)	77290 (4.85)	0.06	0.05
<b>Year</b>						
	2008 -2011		1610 (43.54)	722665 (45.37)	0.04	0.02
	2012-2015		2088 (56.46)	870094 (54.63)	0.04	0.02
<b>Medical Conditions in the year before a woman's last menstrual period</b>						
	Sexually Transmitted Infection		61 (1.65)	21137 (1.33)	0.03	0.03
	Assisted Reproductive Technology		Suppressed	12219 (0.77)	-	-
	Pelvic Infection		28 (0.76)	8053 (0.51)	0.03	0.01
	Intrauterine Device		162 (4.38)	56059 (3.52)	0.04	0.03
	Smoking		187 (5.06)	32470 (2.04)	0.16	0.05
<b>Health in the year before a woman's last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	346	Once	1376 (37.21)	54153 (3.4)	0.93	0.12
DX	346	Frequent	861 (23.28)	20195 (1.27)	0.71	0.09
DX	784	Once	1233 (33.34)	115277 (7.24)	0.69	0.18
DX	789	Once	1031 (27.88)	205201 (12.88)	0.38	0.17
DX	625	Once	665 (17.98)	151559 (9.52)	0.25	0.14
DX	784	Frequent	669 (18.09)	35246 (2.21)	0.54	0.15
DX	789	Frequent	575 (15.55)	83323 (5.23)	0.34	0.16
DX	625	Frequent	294 (7.95)	50081 (3.14)	0.21	0.13
DX	780	Once	1223 (33.07)	230602 (14.48)	0.45	0.18
DX	729	Once	681 (18.42)	108100 (6.79)	0.36	0.20
DX	787	Once	718 (19.42)	106854 (6.71)	0.38	0.22
DX	530	Once	359 (9.71)	48754 (3.06)	0.27	0.15
DX	628	Once	206 (5.57)	127645 (8.01)	0.10	0.04
DX	780	Frequent	517 (13.98)	69834 (4.38)	0.34	0.16
DX	786	Once	701 (18.96)	163041 (10.24)	0.25	0.17
RX	65162062711	Once	142 (3.84)	9665 (0.61)	0.22	0.08
DX	401	Once	266 (7.19)	51329 (3.22)	0.18	0.08
DX	724	Once	800 (21.63)	147394 (9.25)	0.35	0.16
DX	300	Once	519 (14.03)	71993 (4.52)	0.33	0.20
DX	719	Once	646 (17.47)	127308 (7.99)	0.29	0.13
DX	V58	Once	347 (9.38)	48440 (3.04)	0.27	0.11
DX	305	Once	177 (4.79)	29837 (1.87)	0.16	0.06
DX	729	Frequent	325 (8.79)	37519 (2.36)	0.28	0.15
DX	628	Sporadic	107 (2.89)	70657 (4.44)	0.08	0.04
DX	786	Frequent	268 (7.25)	44169 (2.77)	0.21	0.11
DX	620	Once	263 (7.11)	80483 (5.05)	0.09	0.02
RX	00603254428	Once	116 (3.14)	4169 (0.26)	0.22	0.07
DX	787	Frequent	315 (8.52)	30516 (1.92)	0.30	0.22
DX	788	Once	476 (12.87)	85031 (5.34)	0.26	0.09
DX	723	Once	579 (15.66)	81660 (5.13)	0.35	0.10
RX	00603254421	Once	120 (3.24)	3671 (0.23)	0.23	0.06

DX	620	Frequent	128 (3.46)	29523 (1.85)	0.10	0.02
DX	724	Sporadic	468 (12.66)	77827 (4.89)	0.28	0.11
DX	599	Once	676 (18.28)	169539 (10.64)	0.22	0.09
DX	530	Frequent	126 (3.41)	16049 (1.01)	0.16	0.14
DX	278	Once	202 (5.46)	47563 (2.99)	0.12	0.05
RX	00603254428	Frequent	46 (1.24)	1037 (0.07)	0.15	0.04
DX	338	Once	180 (4.87)	18887 (1.19)	0.22	0.10
DX	401	Sporadic	137 (3.7)	27048 (1.7)	0.12	0.10
DX	633	Frequent	Suppressed	3947 (0.25)	-	-
RX	00781183001	Once	250 (6.76)	23485 (1.47)	0.27	0.06
DX	617	Once	97 (2.62)	22184 (1.39)	0.09	0.01
DX	722	Once	244 (6.6)	28832 (1.81)	0.24	0.11
DX	782	Once	409 (11.06)	71501 (4.49)	0.25	0.12
DX	633	Once	21 (0.57)	13331 (0.84)	0.03	0.01
DX	616	Once	445 (12.03)	138536 (8.7)	0.11	0.08
DX	V26	Once	184 (4.98)	104728 (6.58)	0.07	0.06
RX	00406051201	Once	198 (5.35)	34681 (2.18)	0.17	0.04
DX	628	Frequent	42 (1.14)	32991 (2.07)	0.07	0.03
RX	00378034505	Once	85 (2.3)	9467 (0.59)	0.14	0.04
DX	535	Once	177 (4.79)	23318 (1.46)	0.19	0.10
DX	614	Once	54 (1.46)	15428 (0.97)	0.04	0.01
DX	268	Once	153 (4.14)	32376 (2.03)	0.12	0.07
DX	564	Once	390 (10.55)	37338 (2.34)	0.34	0.15
PR	5940	Once	76 (2.06)	71521 (4.49)	0.14	0.00
RX	16252051501	Once	174 (4.71)	34435 (2.16)	0.14	0.05
RX	59746017710	Once	119 (3.22)	12317 (0.77)	0.18	0.09
DX	V58	Frequent	113 (3.06)	14141 (0.89)	0.16	0.10
DX	272	Once	262 (7.08)	64830 (4.07)	0.13	0.09
DX	650	Once	82 (2.22)	71900 (4.51)	0.13	0.02

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile

**eTable 17. Baseline Demographic and Health Characteristics, No Pre-Pregnancy Depression Cohort, Any ‘Other’ Antidepressant**

Characteristics at the End of Pregnancy	Had an ‘Other’ Antidepressant Prescription	Did not have an ‘Other’ Antidepressant Prescription	Unweighted Standardized Differences	IPT Weighted Standardized Differences		
	n (%)	n (%)				
<b>Age</b>						
15-19	256 (2.62)	75543 (4.76)	0.11	0.01		
20-24	797 (8.16)	185050 (11.66)	0.12	0.02		
25-29	2136 (21.87)	427457 (26.94)	0.12	0.01		
30-34	3303 (33.82)	536956 (33.84)	0.00	0.00		
35-39	2431 (24.89)	285010 (17.96)	0.17	0.02		
40-44	844 (8.64)	76674 (4.83)	0.15	0.01		
<b>Year</b>						
2008 -2011	4510 (46.18)	719765 (45.36)	0.02	0.00		
2012-2015	5257 (53.82)	866925 (54.64)	0.02	0.00		
<b>Medical Conditions in the year before a woman’s last menstrual period</b>						
Sexually Transmitted Infection	143 (1.46)	21055 (1.33)	0.01	0.00		
Assisted Reproductive Technology	62 (0.63)	12166 (0.77)	0.02	0.03		
Pelvic Infection	58 (0.59)	8023 (0.51)	0.01	0.02		
Intrauterine Device	537 (5.5)	55684 (3.51)	0.10	0.03		
Smoking	588 (6.02)	32069 (2.02)	0.20	0.07		
<b>Health in the year before a woman’s last menstrual period</b>						
Data Dimension	Code*	Recurrence**				
DX	300	Once	2170 (22.22)	70342 (4.43)	0.54	0.13
DX	780	Once	3085 (31.59)	228740 (14.42)	0.42	0.10
DX	305	Once	622 (6.37)	29392 (1.85)	0.23	0.08
DX	625	Once	1305 (13.36)	150919 (9.51)	0.12	0.06
DX	780	Frequent	1253 (12.83)	69098 (4.35)	0.31	0.09
DX	401	Once	672 (6.88)	50923 (3.21)	0.17	0.04
DX	789	Once	1786 (18.29)	204446 (12.89)	0.15	0.07
DX	296	Once	907 (9.29)	10177 (0.64)	0.41	0.07
DX	786	Once	1536 (15.73)	162206 (10.22)	0.16	0.07
DX	789	Frequent	872 (8.93)	83026 (5.23)	0.14	0.06
DX	401	Sporadic	380 (3.89)	26805 (1.69)	0.13	0.04
DX	729	Once	1205 (12.34)	107576 (6.78)	0.19	0.06
DX	V58	Once	756 (7.74)	48031 (3.03)	0.21	0.07
DX	530	Once	630 (6.45)	48483 (3.06)	0.16	0.05
DX	625	Frequent	468 (4.79)	49907 (3.15)	0.08	0.06
DX	724	Once	1604 (16.42)	146590 (9.24)	0.22	0.09
DX	719	Once	1353 (13.85)	126601 (7.98)	0.19	0.06
DX	278	Once	508 (5.2)	47257 (2.98)	0.11	0.03
DX	787	Once	1149 (11.76)	106423 (6.71)	0.18	0.07
DX	346	Once	805 (8.24)	54724 (3.45)	0.21	0.07
DX	620	Once	637 (6.52)	80109 (5.05)	0.06	0.06
DX	784	Once	1211 (12.4)	115299 (7.27)	0.17	0.07
DX	256	Once	512 (5.24)	65129 (4.1)	0.05	0.05
DX	305	Frequent	220 (2.25)	7806 (0.49)	0.15	0.06
RX	65162062711	Once	188 (1.92)	9619 (0.61)	0.12	0.05
DX	272	Once	692 (7.09)	64400 (4.06)	0.13	0.04
DX	786	Frequent	513 (5.25)	43924 (2.77)	0.13	0.07
DX	617	Once	223 (2.28)	22058 (1.39)	0.07	0.03
DX	309	Once	921 (9.43)	40676 (2.56)	0.29	0.09
DX	244	Once	894 (9.15)	82040 (5.17)	0.15	0.02

DX	401	Frequent	222 (2.27)	15637 (0.99)	0.10	0.04
DX	626	Once	2143 (21.94)	313847 (19.78)	0.05	0.06
DX	724	Sporadic	918 (9.4)	77377 (4.88)	0.18	0.07
RX	00093007401	Frequent	161 (1.65)	2877 (0.18)	0.15	0.04
DX	296	Sporadic	718 (7.35)	6434 (0.41)	0.37	0.06
RX	00093007401	Once	367 (3.76)	9100 (0.57)	0.22	0.05
DX	268	Once	364 (3.73)	32165 (2.03)	0.10	0.03
RX	00228202996	Once	190 (1.95)	4678 (0.29)	0.16	0.05
DX	V58	Frequent	261 (2.67)	13993 (0.88)	0.14	0.05
DX	599	Once	1428 (14.62)	168787 (10.64)	0.12	0.05
DX	723	Once	996 (10.2)	81243 (5.12)	0.19	0.07
RX	16252051501	Once	402 (4.12)	34207 (2.16)	0.11	0.04
DX	300	Frequent	836 (8.56)	20063 (1.26)	0.34	0.09
DX	346	Frequent	358 (3.67)	20698 (1.3)	0.15	0.05
DX	722	Once	446 (4.57)	28630 (1.8)	0.16	0.04
DX	729	Frequent	495 (5.07)	37349 (2.35)	0.14	0.04
DX	783	Once	489 (5.01)	32023 (2.02)	0.16	0.06
DX	256	Sporadic	282 (2.89)	35552 (2.24)	0.04	0.04
RX	00093083201	Once	237 (2.43)	4059 (0.26)	0.19	0.05
DX	620	Frequent	253 (2.59)	29398 (1.85)	0.05	0.06
DX	788	Once	836 (8.56)	84671 (5.34)	0.13	0.06
RX	00378034505	Once	163 (1.67)	9389 (0.59)	0.10	0.04
DX	314	Once	581 (5.95)	16802 (1.06)	0.27	0.07
PR	5940	Once	287 (2.94)	71310 (4.49)	0.08	0.03
DX	530	Frequent	199 (2.04)	15976 (1.01)	0.08	0.04
DX	784	Frequent	428 (4.38)	35487 (2.24)	0.12	0.07
DX	278	Frequent	202 (2.07)	16672 (1.05)	0.08	0.01
RX	53746027205	Once	653 (6.69)	58660 (3.7)	0.14	0.04
RX	00781183001	Once	378 (3.87)	23357 (1.47)	0.15	0.05
RX	00406051201	Once	379 (3.88)	34500 (2.17)	0.10	0.03

NOTE: This table presents the top 60 health variables included in the HDPS model – contact the authors for the full list of 500 variables included

NOTE: Cells with fewer than 15 observations are suppressed to maintain confidentiality

Abbreviations: DX = diagnosis, PR = Procedure, RX = pharmaceutical

\* ICD-9 diagnosis codes Inpatient and Outpatient DX codes, ICD-9 Procedure codes for Inpatient and outpatient PR codes, NDC codes for Outpatient RX codes

\*\*Once – if the code appeared at least once within one year; sporadic – if code appeared at least more than the median; frequent – if the code appeared more than the 75<sup>th</sup> percentile