Depression, Anxiety, and Self-directed Violence in Women with Endometriosis: A

Retrospective Matched Cohort Study

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Web Figure 1.

Figure Legend: Cohort selection for the women with endometriosis and a referent population of women without endometriosis. The cohort entry date for women with endometriosis was the date of the second claim or the date of the endometriosis claim following the laparoscopic procedure, whichever came first. The index date for the referent group was the date of a general medical or annual gynecological exam for the referent group. Dataset: Optum CDM May 1, 2000 through March 31, 2019

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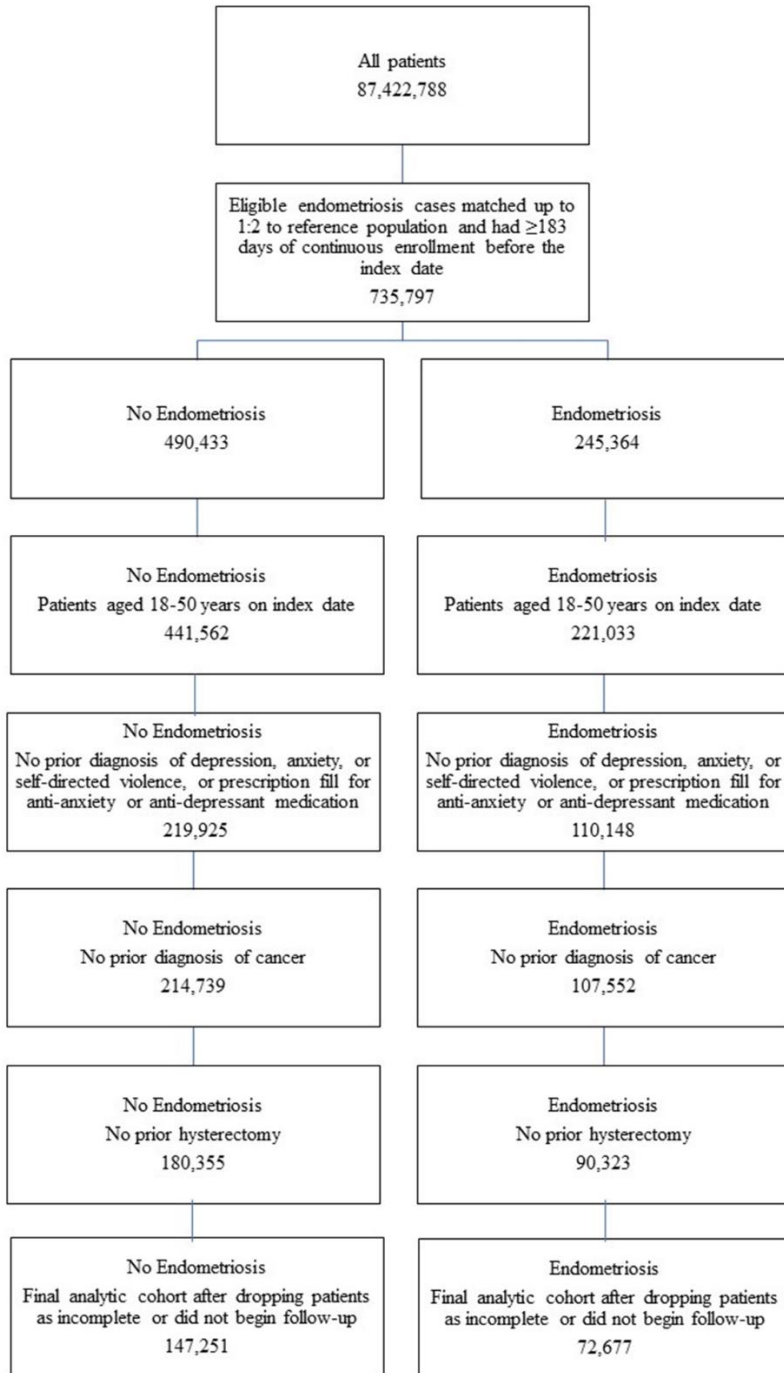
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This supplementary material has been provided by the authors to give readers additional information about their work.

Web Figure 1

All patients
87,422,788

Eligible endometriosis cases matched up to
1:2 to reference population and had ≥183
days of continuous enrollment before the
index date
735,797

No Endometriosis
490,433

Endometriosis
245,364

No Endometriosis
Patients aged 18-50 years on index date
441,562

Endometriosis
Patients aged 18-50 years on index date
221,033

No Endometriosis
No prior diagnosis of depression, anxiety, or
self-directed violence, or prescription fill for
anti-anxiety or anti-depressant medication
219,925

Endometriosis
No prior diagnosis of depression, anxiety, or
self-directed violence, or prescription fill for
anti-anxiety or anti-depressant medication
110,148

No Endometriosis
No prior diagnosis of cancer
214,739

Endometriosis
No prior diagnosis of cancer
107,552

No Endometriosis
No prior hysterectomy
180,355

Endometriosis
No prior hysterectomy
90,323

No Endometriosis
Final analytic cohort after dropping patients
as incomplete or did not begin follow-up
147,251

Endometriosis
Final analytic cohort after dropping patients
as incomplete or did not begin follow-up
72,677

Web Table 1. Baseline Characteristics in Women With Endometriosis by Endometriosis Definition, Optum

Clinformatics® DataMart, 2000-2019[a,b]

	Laparoscopy Confirmed Endometriosis N=33,830	Not Laparoscopy Confirmed Endometriosis N=40,173	Difference
Demographics			-
Age, mean (SD)	32.83 (6.99)	35.07 (7.45)	-2.24 (-2.34, -2.13)
Race/Ethnicity[c]			
White, non-Hispanic	24,512 (72.5%)	27,028 (67.3%)	5.2% (4.5%, 5.8%)
Asian, non-Hispanic	1,640 (4.8%)	2,779 (6.9%)	-2.1% (-2.4%, -1.7%)
Black, non-Hispanic	3,521 (10.4%)	4,949 (12.3%)	-1.9% (-2.4%, -1.5%)
Hispanic	4,157 (12.3%)	5,417 (13.5%)	-1.2% (-1.7%, -0.7%)
Region of Residence			
Northeast	2,282 (6.7%)	4,223 (10.5%)	-3.8% (-4.2%, -3.4%)
Midwest	9,506 (28.1%)	9,603 (23.9%)	4.2% (3.6%, 4.8%)
South	17,164 (50.7%)	18,470 (46.0%)	4.8% (4.0%, 5.5%)
West	4,878 (14.4%)	7,877 (19.6%)	-5.2% (-5.7%, -4.6%)
Gynecological/Reproductive Health Variables			

	Laparoscopy Confirmed Endometriosis N=33,830	Not Laparoscopy Confirmed Endometriosis N=40,173	Difference
Any Pain Symptoms[d]	24,907 (73.6%)	24,853 (61.9%)	11.8% (11.1%, 12.4%)
Dysmenorrhea	13,426 (39.7%)	10,600 (26.4%)	13.3% (12.6%, 14.0%)
Dyspareunia	4,985 (14.7%)	3,307 (8.2%)	6.5% (6.0%, 7.0%)
Pelvic Pain	17,768 (52.5%)	19,357 (48.2%)	4.3% (3.6%, 5.1%)
Infertility[e]	13,508 (39.9%)	12,090 (30.1%)	9.8% (9.1%, 10.5%)
Infertility Diagnosis	8,611 (25.5%)	5,774 (14.4%)	11.1% (10.5%, 11.7%)
Infertility Treatment, Procedures	8,807 (26.0%)	7,864 (19.6%)	6.5% (5.8%, 7.1%)
Infertility Treatment, Medications	10,950 (32.4%)	9,978 (24.8%)	7.5% (6.9%, 8.2%)
Prior Pregnancy	5,572 (16.5%)	5,879 (14.6%)	1.8% (1.3%, 2.4%)
Uterine Fibroids	5,208 (15.4%)	7,459 (18.6%)	-3.2% (-3.7%, -2.6%)
Use of GnRH Agonists	653 (1.9%)	5,667 (14.1%)	-12.2% (-12.5%, -11.8%)
Use of Non-Opioid Analgesics	14,528 (42.9%)	13,781 (34.3%)	8.6% (7.9%, 9.3%)

	Laparoscopy Confirmed Endometriosis N=33,830	Not Laparoscopy Confirmed Endometriosis N=40,173	Difference
Use of Opioid Analgesics	25,146 (74.3%)	19,585 (48.8%)	25.6% (24.9%, 26.3%)
Use of Combined Oral Contraceptives	12,032 (35.6%)	14,279 (35.5%)	0.0% (-0.7%, 0.7%)
General Pain-Related Comorbidities			
Chronic Headaches/Migraines	6,044 (17.9%)	7,167 (17.8%)	0.0% (-0.5%, 0.6%)
Chronic Low Back Pain	7,295 (21.6%)	8,543 (21.3%)	0.3% (0.3%, 0.9%)
Fibromyalgia	1,930 (5.7%)	2,410 (6.0%)	-0.3% (-0.6%, 0.0%)
Interstitial Cystitis	307 (0.9%)	324 (0.8%)	0.1% (0.0%, 0.2%)
Irritable Bowel Syndrome	1,433 (4.2%)	1,694 (4.2%)	0.0% (-0.3%, 0.3%)
Immunological Comorbidities			
Allergic Rhinitis	6,141 (18.2%)	6,844 (17.0%)	1.1% (0.6%, 1.7%)
Allergies	7,883 (23.3%)	8,732 (21.7%)	1.6% (1.0%, 2.2%)
Asthma	2,983 (8.8%)	3,504 (8.7%)	0.1% (0.3%, 0.5%)
Eczema	2,970 (8.8%)	3,357 (8.4%)	0.4% (0.0%, 0.8%)
Other Comorbidities or Medication Use			

	Laparoscopy Confirmed Endometriosis N=33,830	Not Laparoscopy Confirmed Endometriosis N=40,173	Difference
Diabetes Mellitus, Type II	964 (2.8%)	1,410 (3.5%)	-0.7% (-0.9%, -0.4%)
Fatigue	6,738 (19.9%)	8,165 (20.3%)	-0.4% (-1.0%, 0.2%)
Hyperlipidemia	3,605 (10.7%)	5,135 (12.8%)	-2.1% (-2.6%, -1.7%)
Hypertension	2,344 (6.9%)	3,836 (9.5%)	-2.6% (-3.0%, -2.2%)
Hypothyroidism	2,945 (8.7%)	3,809 (9.5%)	-0.8% (-1.2%, -0.4%)
Thyroid Disease	3,682 (10.9%)	4,537 (11.3%)	-0.4% (-0.9%, 0.0%)
Vitamin D Deficiency	787 (2.3%)	1,327 (3.3%)	-1.0% (-1.2%, -0.7%)
Use of Antihypertensives	2,065 (6.1%)	3,454 (8.6%)	-2.5% (-2.9%, -2.1%)
Use of Corticosteroids	10,245 (30.3%)	12,010 (29.9%)	0.4% (-0.3%, 1.1%)

[a]Patients were excluded if they had a prior diagnosis of depression (dx OR rx), anxiety (dx OR rx), self-directed violence, prior prescription fill of an anti-anxiety or anti-depressant medication, prior diagnosis of cancer, or prior hysterectomy.
[b]All values are n (%) unless otherwise specified.
[c]Data contains four mutually exclusive categories based on a combination of self-reported race/ethnicity and imputed race/ethnicity at the census tract level
[d]Includes dysmenorrhea, dyspareunia and pelvic pain
[e]Includes infertility diagnosis, procedures, medications, medical encounters, and use of GnRH antagonists

Web Table 2. Codes for Defining Endometriosis, Covariates, and Outcomes

Measure	Definition
Exposure	
Endometriosis, diagnosis codes only	ICD- 9: 617.0, 617.1, 617.2, 617.3, 617.4, 617.5, 617.8, 617.9 ICD-10: N80.0, N80.1, N80.2, N80.3, N80.4. N80.5, N80.8, N80.9
Laparoscopy	CPT/HCPCS codes: 49321, 49322,49323, 49329, 58551, 58660, 58662, 58670, 58671, 58672, 58673, 58679, 49320
General Medical Exam or Annual Gynecological Exam	ICD-9: V70, V70.0, V70.3, V70.5, V70.8, V70.9, V72.31 ICD-10: Z00.0, Z00.00, Z00.01, Z01.41, Z01.411, Z01.419 CPT/HCPCS: 99386, S0610, S0612, S0613
Outcomes	
Anxiety	ICD-9: 300.00, 300.02, 300.0, 293.84, 300.3, 308.3, 309.8, 300, 300.01, 300.09, 309.81, 309.82, 309.83, 309.89, 309.21, 309.24, 309.28 ICD-10: F41.1, F41, F41.0, F41.3, F41.8, F41.9, F43.0, F43.10, F43.12, F43.22, F43.23, F43.8
Depression	ICD-9: 296.2, 296.3, 298.0, 300.4, 309, 309.0, 309.1, 309.28, 311, 296.20, 296.21, 296.22, 296.23, 296.24, 296.25, 296.26, 296.30, 296.31, 296.32, 296.33, 296.34, 296.35, 296.36

Measure	Definition
	ICD-10: F32, F32.0, F32.1, F32.2, F32.3, F32.4, F32.5, F32.8, F32.9, F33, F33.0, F33.1, F33.2, F33.3, F33.4, F33.40, F33.41, F33.42, F33.8, F33.9, F34.1
Self-Directed Violence	ICD-9: V62.84, E950, E950.0, E950.1, E950.2, E950.3, E950.4, E950.5, E950.6, E950.7, E950.8, E950.9, E951, E951.0, E951.1, E951.8, E952, E952.0, E952.1, E952.8, E952.9, E953, E953.0, E953.1, E953.8, E953.9, E954, E955, E955.0, E955.1, E955.2, E955.3, E955.4, E955.5, E955.6, E955.7, E955.9, E956, E957, E957.0, E957.1, E957.2, E957.9, E958, E958.0, E958.1, E958.2, E958.3, E958.4, E958.5, E958.6, E958.7, E958.8, E958.9, E959

ICD-10: R45.851, T14.91, T36.1X2, T36.7X2, T42.2X2, T42.2X2A, T42.2X2D, T42.2X2S, T42.3X2, T42.3X2A, T42.3X2D, T42.3X2S, T42.4X2, T42.4X2A, T42.4X2D, T42.4X2S, X71.0XXA, X71.1XXA, X71.2, X71.3XXA, X71.8XXA, X71.9XXA, X72.XXXA, X72.XXXD, X72.XXXS, X73.0XXA, X73.0XXD, X73.0XXS, X73.1, X73.1XXA, X73.2XXA, X73.2XXD, X73.8XXA, X73.8XXS, X73.9XXA, X73.9XXD, X74.01XA, X74.01XS, X74.02XA, X74.09XA, X74.8XXA, X74.8XXD, X74.9XXA, X74.9XXD, X74.9XXS, X75, X76.XXXA, X76.XXXD, X76.XXXS, X77.1XXA, X77.2XXA, X77.3XXA, X77.8XXA, X77.9XXA, X77.9XXD, X78, X78.0, X78.0XXA, X78.0XXD, X78.0XXS, X78.1XXA, X78.1XXD, X78.1XXS, X78.2XXA, X78.8XXA, X78.8XXD, X78.8XXS, X78.9XXA, X78.9XXD, X78.9XXS, X79.XXXA, X79.XXXD, X79.XXXS, X80.XXXA, X80.XXXD, X81.0XXA, X81.0XXS, X81.1XXA, X81.8XXA, X82.0XXA, X82.0XXD, X82.2XXA, X82.8XXA, X82.8XXD, X82.8XXS, X83.0XXA, X83.2XXA, X83.8XXA, X83.8XXD, X83.8XXS, Z91.5 |
| Anti-depressant use | AHFSC Therapeutic Category: 281604, 28160412, 28160416, 28160420, 28160424, 28160428, 28160492 |

Measure	Definition
	NDC Generic Name: AMITRIPTYLINE HCL, AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE, AMOXAPINE, CITALOPRAM HYDROBROMIDE, DESIPRAMINE HCL, DESVENLAFAXINE, DESVENLAFAXINE FUMARATE, DESVENLAFAXINE SUCCINATE, DOXEPIN HCL, DULOXETINE HCL, ESCITALOPRAM OXALATE, FLUOXETINE, FLUOXETINE HCL, FLUVOXAMINE MALEATE, IMIPRAMINE HCL, IMIPRAMINE PAMOATE, LEVOMILNACIPRAN HCL, MAPROTILINE HCL, NORTRIPTYLINE HCL, PAROXETINE HCL, PAROXETINE MESYLATE, PERPHENAZINE/AMITRIPTYLINE HCL, PROTRIPTYLINE HCL, SERTRALINE HCL, TRIMIPRAMINE MALEATE, VENLAFAXINE HCL, VILAZODONE HCL, BUPROPION HCL, MIRTAZAPINE, NEFAZODONE HCL, PHENELZINE SULFATE, TRANYLCYPROMINE SULFATE, TRAZODONE HCL, ISOCARBOXAZID NDC Brand Name: ETRAFON 2-10, ETRAFON 2-25, TRIAVIL 10-2, TRIAVIL 2-10, TRIAVIL 2-25, TRIAVIL 25-2, TRIAVIL 25-4, TRIAVIL 4-10, TRIAVIL 4-25, TRIAVIL 4-50, LUVOX, LUVOX CR, ELAVIL, ENDEP, VANATRIP, LIMBITROL, LIMBITROL DS, ASENDIN, APLENZIN, BUPROBAN, FORFIVO XL, WELLBUTRIN, WELLBUTRIN SR, WELLBUTRIN XL, ZYBAN, BUDEPRION SR, BUDEPRION XL, CELEXA, CITALOPRAM, NORPRAMIN, KHEDEZLA, PRISTIQ, SINEQUAN, SILENOR, ZONALON, ADAPIN, CYMBALTA, IRENKA, LEXAPRO, RAPIFLUX, PROZAC, PROZAC WEEKLY, SARAFEM, FETZIMA, LUDIOMIL, REMERON, SERZONE, AVENTYL HCL, PAMELOR, SYMBYAX, PAXIL, PAXIL CR, PEXEVA, NARDIL, VIVACTIL, ZOLOFT, PARNATE, DESYREL, SURMONTIL, EFFEXOR, EFFEXOR XR, VIIBRYD, MARPLAN

Measure	Definition
Anti-anxiety use	NDC Generic Name: ALPRAZOLAM, ATENOLOL, CHLORDIAZEPOXIDE, CLONAZEPAM, DIAZEPAM, ESCITALOPRAM OXALATE, FLUOXETINE, GABAPENTIN, LORAZEPAM, OXAZEPAM, PREGABALIN, AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE, PROPRANOLOL HCL, SERTRALINE HCL, TRANYLCYPROMINE SULFATE, VENLAFAXINE HCL, AMITRIPTYLINE HCL, BUSPIRONE HCL, CHLORAL HYDRATE, CLOMIPRAMINE HCL, CLORAZEPATE DIPOTASSIUM, DESIPRAMINE HCL, HYDROXYZINE HCL, IMIPRAMINE HCL, NORTRIPTYLINE HCL, PAROXETINE HCL, PAROXETINE MESYLATE, PHENELZINE SULFATE NDC Brand Name: ANAFRANIL, ATIVAN, BUSPAR, EFFEXOR, INDERAL, KLONOPIN, LEXAPRO, LIBRIUM, LYRICA, NARDIL, NEURONTIN, NORPRAMIN, PAMELOR, PARNATE, PAXIL, PROZAC, SERAX, TENORMIN, TOFRANIL, VALIUM, XANAX, ZOLOFT, XANAX XR, RAPIFLUX, PROZAC WEEKLY, SARAFEM, LORAZEPAM INTENSOL, ENDEP, VANATRIP, LIMBITROL, LIMBITROL DS, VANSPAR, AQUACHLORAL, NOCTEC, TRANXENE T-TAB, TRANXENE-T, VISTARIL, VISTARIL IM, HYZINE, VISTAJECT, REZINE, TOFRANIL-PM, AVENTYL HCL, PAXIL CR
Covariates	
Dysmenorrhea	ICD-9: 625.3 ICD-10: N94.6
Dyspareunia	ICD-9: 625.0 ICD-10: N94.1

Measure	Definition
Pelvic Pain	ICD-9: 625.8, 625.9, 789.00, 789.01, 789.02, 789.03, 789.04, 789.05, 789.06, 789.07, 789.09 ICD-10: N94.89, R10.10, R10.11, R10.12, R10.13, R10.2, R10.30, R10.31, R10.32, R10.33, R10.84, R10.9
Any Infertility	
Infertility diagnosis	ICD-9: 628.0, 628.1, 628.2, 628.3, 628.4, 628.8, 628.9, 628 ICD-10: N97, N97.0, N97.1, N97.2, N97.8, N97.9
Use of Fertility Treatment, medical encounter	ICD-9: V26, V26.1, V26.2, V26.21, V26.4, V26.41, V26.42, V26.49, V26.81, V26.82, V26.89, V26.9 ICD-10: Z31, Z31.6, Z31.61, Z31.62, Z31.69, Z31.8, Z31.9
Use of Fertility Treatment (procedures)	ICD-9: 69.92 CPT/HCPCS: 58321, 58322, 58345, 58752, 58760, 58770, 58974, 58976, 80415, 80426, 83001, 83002, 84830, 89253, 89254, 89255, 89258, 89268, 89272, 89280, 89281, 89290, 89291, S4035, S4042
Use of Fertility Treatment Medications, excluding Lupron	AHFSC Therapeutic Category: LEUPROLIDE ACETATE, LEUPROLIDE ACETATE/LIDOCAINE HCL, LEUPROLIDE ACETATE/NORETHINDRONE ACETATE NDC Generic Name: CLOMIPHENE CITRATE, UROFOLLITROPIN, CHORIONIC GONADOTROPIN, HUMAN, MENOTROPINS, FOLLITROPIN ALFA, RECOMB, CHORIOGONADOTROPIN ALFA, FOLLITROPIN BETA,

Measure	Definition
	RECOMB, HISTRELIN ACETATE, LUTROPIN ALFA, NAFARELIN ACETATE CPT/HCPCS: 80415, 80426, 82670, 83001, 83002, 84144, J0725, J3355, S0122, S0126, S0128
Use of GnRH Antagonist	NDC Generic Name: DEGARELIX ACETATE, ABARELIX, CETRORELIX ACETATE, GANIRELIX ACETATE, FOLLITROPIN BETA, RECOMB/GANIRELIX ACETATE
Prior Pregnancy	ICD-9: 630, 631, 631.0, 631.8, 632, 633, 633.0, 633.00, 633.01, 633.1, 633.10, 633.11, 633.2, 633.20, 633.21, 633.8, 633.80, 633.81, 633.9, 633.90, 633.91, 634, 634.0, 634.00, 634.01, 634.02, 634.1, 634.10, 634.11, 634.12, 634.2, 634.20, 634.21, 634.22, 634.3, 634.30, 634.31, 634.32, 634.4, 634.40, 634.41, 634.42, 634.5, 634.50, 634.51, 634.52, 634.6, 634.60, 634.61, 634.62, 634.7, 634.70, 634.71, 634.72, 634.8, 634.80, 634.81, 634.82, 634.9, 634.90, 634.91, 634.92, 635, 635.0, 635.00, 635.01, 635.02, 635.1, 635.10, 635.11, 635.12, 635.2, 635.20, 635.21, 635.22, 635.3, 635.30, 635.31, 635.32, 635.4, 635.40, 635.41, 635.42, 635.5, 635.50, 635.51, 635.52, 635.6, 635.60, 635.61, 635.62, 635.7, 635.70, 635.71, 635.72, 635.8, 635.80, 635.81, 635.82, 635.9, 635.90, 635.91, 635.92, 636, 636.0, 636.00, 636.01, 636.02, 636.1, 636.10, 636.11, 636.12, 636.2, 636.20, 636.21, 636.22, 636.3, 636.30, 636.31, 636.32, 636.4, 636.40, 636.41, 636.42, 636.5, 636.50, 636.51, 636.52, 636.6, 636.60, 636.61, 636.62, 636.7, 636.70, 636.71, 636.72, 636.8, 636.80, 636.81, 636.82, 636.9, 636.90, 636.91, 636.92, 637, 637.0, 637.00, 637.01, 637.02, 637.1, 637.10, 637.11, 637.12, 637.2, 637.20, 637.21, 637.22, 637.3, 637.30, 637.31, 637.32, 637.4, 637.40, 637.41, 637.42, 637.5, 637.50, 637.51, 637.52, 637.6, 637.60, 637.61, 637.62, 637.7, 637.70, 637.71, 637.72, 637.8, 637.80, 637.81, 637.82, 637.9, 637.90, 637.91, 637.92, 638,

Measure	Definition
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Measure	Definition
	648.31, 648.32, 648.33, 648.34, 648.4, 648.40, 648.41, 648.42, 648.43, 648.44, 648.5, 648.50, 648.51, 648.52, 648.53, 648.54, 648.6, 648.60, 648.61, 648.62, 648.63, 648.64, 648.7, 648.70, 648.71, 648.72, 648.73, 648.74, 648.8, 648.80, 648.81, 648.82, 648.83, 648.84, 648.9, 648.90, 648.91, 648.92, 648.93, 648.94, 649, 649.0, 649.00, 649.01, 649.02, 649.03, 649.04, 649.1, 649.10, 649.11, 649.12, 649.13, 649.14, 649.2, 649.20, 649.21, 649.22, 649.23, 649.24, 649.3, 649.30, 649.31, 649.32, 649.33, 649.34, 649.4, 649.40, 649.41, 649.42, 649.43, 649.44, 649.5, 649.50, 649.51, 649.53, 649.6, 649.60, 649.61, 649.62, 649.63, 649.64, 649.7, 649.70, 649.71, 649.73, 649.8, 649.81, 649.82, 650, 651, 651.0, 651.00, 651.01, 651.03, 651.1, 651.10, 651.11, 651.13, 651.2, 651.20, 651.21, 651.23, 651.3, 651.30, 651.31, 651.33, 651.4, 651.40, 651.41, 651.43, 651.5, 651.50, 651.51, 651.53, 651.6, 651.60, 651.61, 651.63, 651.7, 651.70, 651.71, 651.73, 651.8, 651.80, 651.81, 651.83, 651.9, 651.90, 651.91, 651.93, 652, 652.0, 652.00, 652.01, 652.03, 652.1, 652.10, 652.11, 652.13, 652.2, 652.20, 652.21, 652.23, 652.3, 652.30, 652.31, 652.33, 652.4, 652.40, 652.41, 652.43, 652.5, 652.50, 652.51, 652.53, 652.6, 652.60, 652.61, 652.63, 652.7, 652.70, 652.71, 652.73, 652.8, 652.80, 652.81, 652.83, 652.9, 652.90, 652.91, 652.93, 653, 653.0, 653.00, 653.01, 653.03, 653.1, 653.10, 653.11, 653.13, 653.2, 653.20, 653.21, 653.23, 653.3, 653.30, 653.31, 653.33, 653.4, 653.40, 653.41, 653.43, 653.5, 653.50, 653.51, 653.53, 653.6, 653.60, 653.61, 653.63, 653.7, 653.70, 653.71, 653.73, 653.8, 653.80, 653.81, 653.83, 653.9, 653.90, 653.91, 653.93, 654, 654.0, 654.00, 654.01, 654.02, 654.03, 654.04, 654.1, 654.10, 654.11, 654.12, 654.13, 654.14, 654.2, 654.20, 654.21, 654.23, 654.3, 654.30, 654.31, 654.32, 654.33, 654.34, 654.4, 654.40, 654.41, 654.42, 654.43, 654.44, 654.5, 654.50, 654.51, 654.52, 654.53, 654.54, 654.6, 654.60, 654.61, 654.62, 654.63, 654.64, 654.7, 654.70, 654.71, 654.72, 654.73, 654.74, 654.8, 654.80, 654.81, 654.82, 654.83, 654.84, 654.9, 654.90, 654.91, 654.92, 654.93, 654.94, 655, 655.0, 655.00, 655.01, 655.03,

Measure	Definition
	655.1, 655.10, 655.11, 655.13, 655.2, 655.20, 655.21, 655.23, 655.3, 655.30, 655.31, 655.33, 655.4, 655.40, 655.41, 655.43, 655.5, 655.50, 655.51, 655.53, 655.6, 655.60, 655.61, 655.63, 655.7, 655.70, 655.71, 655.73, 655.8, 655.80, 655.81, 655.83, 655.9, 655.90, 655.91, 655.93, 656, 656.0, 656.00, 656.01, 656.03, 656.1, 656.10, 656.11, 656.13, 656.2, 656.20, 656.21, 656.23, 656.3, 656.30, 656.31, 656.33, 656.4, 656.40, 656.41, 656.43, 656.5, 656.50, 656.51, 656.53, 656.6, 656.60, 656.61, 656.63, 656.7, 656.70, 656.71, 656.73, 656.8, 656.80, 656.81, 656.83, 656.9, 656.90, 656.91, 656.93, 657, 657.00, 657.01, 657.03, 658, 658.0, 658.00, 658.01, 658.03, 658.1, 658.10, 658.11, 658.13, 658.2, 658.20, 658.21, 658.23, 658.3, 658.30, 658.31, 658.33, 658.4, 658.40, 658.41, 658.43, 658.8, 658.80, 658.81, 658.83, 658.9, 658.90, 658.91, 658.93, 659, 659.0, 659.00, 659.01, 659.03, 659.1, 659.10, 659.11, 659.13, 659.2, 659.20, 659.21, 659.23, 659.3, 659.30, 659.31, 659.33, 659.4, 659.40, 659.41, 659.43, 659.5, 659.50, 659.51, 659.53, 659.6, 659.60, 659.61, 659.63, 659.7, 659.70, 659.71, 659.73, 659.8, 659.80, 659.81, 659.83, 659.9, 659.90, 659.91, 659.93, 660, 660.0, 660.00, 660.01, 660.03, 660.1, 660.10, 660.11, 660.13, 660.2, 660.20, 660.21, 660.23, 660.3, 660.30, 660.31, 660.33, 660.4, 660.40, 660.41, 660.43, 660.5, 660.50, 660.51, 660.53, 660.6, 660.60, 660.61, 660.63, 660.7, 660.70, 660.71, 660.73, 660.8, 660.80, 660.81, 660.83, 660.9, 660.90, 660.91, 660.93, 661, 661.0, 661.00, 661.01, 661.03, 661.1, 661.10, 661.11, 661.13, 661.2, 661.20, 661.21, 661.23, 661.3, 661.30, 661.31, 661.33, 661.4, 661.40, 661.41, 661.43, 661.9, 661.90, 661.91, 661.93, 662, 662.0, 662.00, 662.01, 662.03, 662.1, 662.10, 662.11, 662.13, 662.2, 662.20, 662.21, 662.23, 662.3, 662.30, 662.31, 662.33, 663, 663.0, 663.00, 663.01, 663.03, 663.1, 663.10, 663.11, 663.13, 663.2, 663.20, 663.21, 663.23, 663.3, 663.30, 663.31, 663.33, 663.4, 663.40, 663.41, 663.43, 663.5, 663.50, 663.51, 663.53, 663.6, 663.60, 663.61, 663.63, 663.8, 663.80, 663.81, 663.83, 663.9, 663.90, 663.91, 663.93, 664, 664.0, 664.00, 664.01, 664.04, 664.1, 664.10,

Measure	Definition
	664.11, 664.14, 664.2, 664.20, 664.21, 664.24, 664.3, 664.30, 664.31, 664.34, 664.4, 664.40, 664.41, 664.44, 664.5, 664.50, 664.51, 664.54, 664.6, 664.60, 664.61, 664.64, 664.8, 664.80, 664.81, 664.84, 664.9, 664.90, 664.91, 664.94, 665, 665.0, 665.00, 665.01, 665.03, 665.1, 665.10, 665.11, 665.2, 665.20, 665.22, 665.24, 665.3, 665.30, 665.31, 665.34, 665.4, 665.40, 665.41, 665.44, 665.5, 665.50, 665.51, 665.54, 665.6, 665.60, 665.61, 665.64, 665.7, 665.70, 665.71, 665.72, 665.74, 665.8, 665.80, 665.81, 665.82, 665.83, 665.84, 665.9, 665.90, 665.91, 665.92, 665.93, 665.94, 666, 666.0, 666.00, 666.02, 666.04, 666.1, 666.10, 666.12, 666.14, 666.2, 666.20, 666.22, 666.24, 666.3, 666.30, 666.32, 666.34, 667, 667.0, 667.00, 667.02, 667.04, 667.1, 667.10, 667.12, 667.14, 668, 668.0, 668.00, 668.01, 668.02, 668.03, 668.04, 668.1, 668.10, 668.11, 668.12, 668.13, 668.14, 668.2, 668.20, 668.21, 668.22, 668.23, 668.24, 668.8, 668.80, 668.81, 668.82, 668.83, 668.84, 668.9, 668.90, 668.91, 668.92, 668.93, 668.94, 669, 669.0, 669.00, 669.01, 669.02, 669.03, 669.04, 669.1, 669.10, 669.11, 669.12, 669.13, 669.14, 669.2, 669.20, 669.21, 669.22, 669.23, 669.24, 669.3, 669.30, 669.32, 669.34, 669.4, 669.40, 669.41, 669.42, 669.43, 669.44, 669.5, 669.50, 669.51, 669.6, 669.60, 669.61, 669.7, 669.70, 669.71, 669.8, 669.80, 669.81, 669.82, 669.83, 669.84, 669.9, 669.90, 669.91, 669.92, 669.93, 669.94, 670, 670.0, 670.00, 670.02, 670.04, 670.1, 670.10, 670.12, 670.14, 670.2, 670.20, 670.22, 670.24, 670.3, 670.30, 670.32, 670.34, 670.8, 670.80, 670.82, 670.84, 671, 671.0, 671.00, 671.01, 671.02, 671.03, 671.04, 671.1, 671.10, 671.11, 671.12, 671.13, 671.14, 671.2, 671.20, 671.21, 671.22, 671.23, 671.24, 671.3, 671.30, 671.31, 671.33, 671.4, 671.40, 671.42, 671.44, 671.5, 671.50, 671.51, 671.52, 671.53, 671.54, 671.8, 671.80, 671.81, 671.82, 671.83, 671.84, 671.9, 671.90, 671.91, 671.92, 671.93, 671.94, 672, 672.00, 672.02, 672.04, 673, 673.0, 673.00, 673.01, 673.02, 673.03, 673.04, 673.1, 673.10, 673.11, 673.12, 673.13, 673.14, 673.2, 673.20, 673.21, 673.22, 673.23, 673.24, 673.3, 673.30, 673.31, 673.32, 673.33, 673.34, 673.8,

Measure	Definition
	673.80, 673.81, 673.82, 673.83, 673.84, 674, 674.0, 674.00, 674.01, 674.02, 674.03, 674.04, 674.1, 674.10, 674.12, 674.14, 674.2, 674.20, 674.22, 674.24, 674.3, 674.30, 674.32, 674.34, 674.4, 674.40, 674.42, 674.44, 674.5, 674.50, 674.51, 674.52, 674.53, 674.54, 674.8, 674.80, 674.82, 674.84, 674.9, 674.90, 674.92, 674.94, 675, 675.0, 675.00, 675.01, 675.02, 675.03, 675.04, 675.1, 675.10, 675.11, 675.12, 675.13, 675.14, 675.2, 675.20, 675.21, 675.22, 675.23, 675.24, 675.8, 675.80, 675.81, 675.82, 675.83, 675.84, 675.9, 675.90, 675.91, 675.92, 675.93, 675.94, 676, 676.0, 676.00, 676.01, 676.02, 676.03, 676.04, 676.1, 676.10, 676.11, 676.12, 676.13, 676.14, 676.2, 676.20, 676.21, 676.22, 676.23, 676.24, 676.3, 676.30, 676.31, 676.32, 676.33, 676.34, 676.4, 676.40, 676.41, 676.42, 676.43, 676.44, 676.5, 676.50, 676.51, 676.52, 676.53, 676.54, 676.6, 676.60, 676.61, 676.62, 676.63, 676.64, 676.8, 676.80, 676.81, 676.82, 676.83, 676.84, 676.9, 676.90, 676.91, 676.92, 676.93, 676.94, 677, 678, 678.0, 678.00, 678.01, 678.03, 678.1, 678.10, 678.11, 678.13, 679, 679.0, 679.00, 679.01, 679.02, 679.03, 679.04, 679.1, 679.10, 679.11, 679.12, 679.13, 679.14, V22, V22.0, V22.1, V22.2, V23, V23.0, V23.1, V23.2, V23.3, V23.4, V23.41, V23.42, V23.49, V23.5, V23.7, V23.8, V23.81, V23.82, V23.83, V23.84, V23.85, V23.86, V23.87, V23.89, V23.9, V28, V28.0, V28.1, V28.2, V28.3, V28.4, V28.5, V28.6, V28.8, V28.81, V28.82, V28.89, V28.9 ICD-10: A34, O01.9, O02.0, O02.1, O02.81, O02.89, O03.0, O03.1, O03.2, O03.30, O03.31, O03.32, O03.33, O03.34, O03.37, O03.39, O03.4, O03.5, O03.6, O03.7, O03.80, O03.81, O03.82, O03.83, O03.84, O03.85, O03.86, O03.87, O03.88, O03.89, O03.9, O04.5, O04.6, O04.7, O04.80, O04.81, O04.82, O04.83, O04.84, O04.85, O04.86, O04.87, O04.88, O04.89, O07.0, O07.1, O07.2, O07.30, O07.31, O07.32, O07.33, O07.34, O07.35, O07.36, O07.37, O07.38, O07.39, O07.4, O08.0, O08.1, O08.2, O08.3, O08.4, O08.5, O08.6, O08.7, O08.81, O08.82, O08.83, O08.89, O08.9, O09.00, O09.10, O09.211, O09.291, O09.30,

Measure	Definition
	O09.40, O09.41, O09.42, O09.43, O09.511, O09.512, O09.513, O09.519, O09.521, O09.522, O09.523, O09.529, O09.611, O09.621, O09.819, O09.821, O09.822, O09.823, O09.829, O09.891, O09.892, O09.893, O09.899, O09.90, O09.91, O09.92, O09.93, O10.011, O10.012, O10.013, O10.019, O10.02, O10.03, O10.111, O10.112, O10.113, O10.119, O10.12, O10.13, O10.211, O10.212, O10.213, O10.219, O10.22, O10.23, O10.311, O10.312, O10.313, O10.319, O10.32, O10.33, O10.411, O10.412, O10.413, O10.419, O10.42, O10.43, O10.911, O10.912, O10.913, O10.919, O10.92, O10.93, O11.1, O11.2, O11.3, O11.9, O12.00, O12.01, O12.02, O12.03, O12.20, O12.21, O12.22, O12.23, O13.1, O13.2, O13.3, O13.9, O14.00, O14.02, O14.03, O14.10, O14.12, O14.13, O14.20, O14.22, O14.23, O14.90, O14.92, O14.93, O15.02, O15.03, O15.1, O15.2, O15.9, O16.1, O16.2, O16.3, O16.9, O20.0, O20.8, O20.9, O21.0, O21.1, O21.2, O21.8, O21.9, O22.00, O22.01, O22.02, O22.03, O22.10, O22.11, O22.12, O22.13, O22.20, O22.21, O22.22, O22.23, O22.30, O22.31, O22.32, O22.33, O22.40, O22.41, O22.42, O22.43, O22.50, O22.51, O22.52, O22.53, O22.8X1, O22.8X2, O22.8X3, O22.8X9, O22.90, O22.91, O22.92, O22.93, O23.00, O23.10, O23.20, O23.30, O23.40, O23.41, O23.42, O23.43, O23.519, O23.529, O23.599, O23.90, O23.91, O23.92, O23.93, O24.319, O24.32, O24.419, O24.429, O24.439, O24.911, O24.912, O24.913, O24.92, O24.93, O25.10, O25.11, O25.12, O25.13, O25.2, O25.3, O26.00, O26.01, O26.02, O26.03, O26.11, O26.12, O26.13, O26.20, O26.21, O26.22, O26.23, O26.41, O26.42, O26.43, O26.50, O26.51, O26.52, O26.53, O26.611, O26.612, O26.613, O26.619, O26.62, O26.811, O26.812, O26.813, O26.819, O26.821, O26.822, O26.823, O26.829, O26.831, O26.832, O26.833, O26.839, O26.841, O26.842, O26.843, O26.849, O26.851, O26.852, O26.853, O26.859, O26.872, O26.873, O26.879, O26.891, O26.892, O26.893, O26.899, O26.90, O30.001, O30.002, O30.003, O30.009, O30.021, O30.022, O30.023, O30.029, O30.101, O30.102, O30.103, O30.109, O30.201,

Measure	Definition
	O30.202, O30.203, O30.209, O30.801, O30.802, O30.803, O30.809, O30.90, O30.91, O30.92, O30.93, O31.00X0, O31.01X0, O31.02X0, O31.03X0, O31.10X0, O31.11X0, O31.30X0, O31.31X0, O31.32X0, O31.33X0, O31.8X10, O31.8X20, O31.8X30, O31.8X90, O32.0XX0, O32.1XX0, O32.2XX0, O32.3XX0, O32.4XX0, O32.6XX0, O32.8XX0, O32.9XX0, O33.0, O33.1, O33.2, O33.3XX0, O33.4XX0, O33.5XX0, O33.6XX0, O33.8, O33.9, O34.00, O34.01, O34.02, O34.03, O34.10, O34.11, O34.12, O34.13, O34.29, O34.30, O34.31, O34.32, O34.33, O34.40, O34.41, O34.42, O34.43, O34.511, O34.512, O34.513, O34.519, O34.521, O34.522, O34.523, O34.529, O34.531, O34.532, O34.533, O34.539, O34.591, O34.592, O34.593, O34.599, O34.60, O34.61, O34.62, O34.63, O34.70, O34.71, O34.72, O34.73, O34.80, O34.81, O34.82, O34.83, O34.90, O34.91, O34.92, O34.93, O35.0XX0, O35.1XX0, O35.2XX0, O35.3XX0, O35.4XX0, O35.5XX0, O35.6XX0, O35.7XX0, O35.8XX0, O35.9XX0, O36.0110, O36.0120, O36.0130, O36.0190, O36.0910, O36.0920, O36.0930, O36.0990, O36.1110, O36.1120, O36.1130, O36.1190, O36.1910, O36.1920, O36.1930, O36.1990, O36.4XX0, O36.5110, O36.5120, O36.5130, O36.5190, O36.5910, O36.5920, O36.5930, O36.5990, O36.60X0, O36.61X0, O36.62X0, O36.63X0, O36.80X0, O36.8120, O36.8130, O36.8190, O36.8210, O36.8220, O36.8230, O36.8290, O36.8910, O36.8920, O36.8930, O36.8990, O36.90X0, O36.91X0, O36.92X0, O36.93X0, O40.1XX0, O40.2XX0, O40.3XX0, O40.9XX0, O41.00X0, O41.01X0, O41.02X0, O41.03X0, O41.1010, O41.1020, O41.1030, O41.1090, O41.1210, O41.1220, O41.1230, O41.1290, O41.1410, O41.1420, O41.1430, O41.1490, O41.8X10, O41.8X20, O41.8X30, O41.8X90, O41.90X0, O41.91X0, O41.92X0, O41.93X0, O42.00, O42.011, O42.012, O42.013, O42.02, O42.10, O42.111, O42.112, O42.113, O42.12, O43.011, O43.019, O43.101, O43.102, O43.103, O43.199, O43.211, O43.212, O43.213, O43.221, O43.222, O43.223, O43.231, O43.232, O43.233, O43.239, O43.811,

Measure	Definition
	O43.812, O43.813, O43.819, O43.91, O43.92, O43.93, O44.00, O44.01, O44.02, O44.03, O44.10, O44.11, O44.12, O44.13, O45.001, O45.002, O45.003, O45.011, O45.012, O45.013, O45.021, O45.022, O45.023, O45.091, O45.092, O45.093, O45.8X1, O45.8X2, O45.8X3, O45.8X9, O45.91, O45.92, O45.93, O46.001, O46.002, O46.003, O46.009, O46.011, O46.012, O46.013, O46.019, O46.021, O46.022, O46.023, O46.029, O46.091, O46.092, O46.093, O46.099, O46.8X1, O46.8X2, O46.8X3, O46.8X9, O46.90, O46.91, O46.92, O46.93, O47.00, O47.02, O47.03, O47.1, O47.9, O48.0, O48.1, O60.00, O60.02, O60.03, O60.10X0, O60.12X0, O60.13X0, O60.14X0, O61.0, O61.1, O61.9, O62.0, O62.1, O62.2, O62.3, O62.4, O62.9, O63.0, O63.1, O63.2, O63.9, O64.0XX0, O64.1XX0, O64.9XX0, O65.4, O65.5, O65.9, O66.0, O66.1, O66.40, O66.5, O66.8, O66.9, O67.0, O67.8, O67.9, O68, O69.0XX0, O69.1XX0, O69.2XX0, O69.3XX0, O69.4XX0, O69.5XX0, O69.81X0, O69.82X0, O69.89X0, O69.9XX0, O70.0, O70.1, O70.3, O70.4, O70.9, O71.00, O71.02, O71.03, O71.1, O71.2, O71.3, O71.4, O71.5, O71.6, O71.7, O71.82, O71.89, O71.9, O72.0, O72.1, O72.2, O72.3, O73.0, O73.1, O74.1, O74.2, O74.3, O74.8, O74.9, O75.0, O75.1, O75.2, O75.3, O75.4, O75.5, O75.81, O75.82, O75.89, O75.9, O76, O77.0, O80, O82, O85, O86.0, O86.11, O86.12, O86.13, O86.19, O86.20, O86.21, O86.22, O86.29, O86.4, O86.81, O86.89, O87.0, O87.1, O87.2, O87.3, O87.4, O87.8, O87.9, O88.011, O88.012, O88.013, O88.019, O88.02, O88.03, O88.111, O88.112, O88.113, O88.119, O88.12, O88.13, O88.211, O88.212, O88.213, O88.219, O88.22, O88.23, O88.311, O88.312, O88.313, O88.319, O88.32, O88.33, O88.811, O88.812, O88.813, O88.819, O88.82, O88.83, O89.09, O89.1, O89.2, O89.8, O89.9, O90.0, O90.1, O90.2, O90.3, O90.4, O90.5, O90.6, O90.81, O90.89, O90.9, O91.011, O91.012, O91.013, O91.019, O91.02, O91.111, O91.112, O91.113, O91.119, O91.12, O91.211, O91.212, O91.213, O91.219, O91.22, O91.23, O92.011, O92.012, O92.013, O92.019, O92.03, O92.111,

Measure	Definition
	O92.112, O92.113, O92.119, O92.13, O92.20, O92.29, O92.3, O92.5, O92.6, O92.70, O92.79, O94, O98.011, O98.012, O98.013, O98.019, O98.02, O98.03, O98.111, O98.112, O98.113, O98.119, O98.12, O98.13, O98.211, O98.212, O98.213, O98.219, O98.22, O98.23, O98.311, O98.312, O98.313, O98.319, O98.32, O98.33, O98.42, O98.43, O98.511, O98.512, O98.513, O98.519, O98.52, O98.53, O98.611, O98.612, O98.613, O98.619, O98.62, O98.63, O98.811, O98.812, O98.813, O98.819, O98.82, O98.83, O98.911, O98.912, O98.913, O98.919, O98.92, O98.93, O99.011, O99.012, O99.013, O99.019, O99.02, O99.03, O99.111, O99.112, O99.113, O99.119, O99.12, O99.13, O99.210, O99.211, O99.212, O99.213, O99.214, O99.215, O99.280, O99.281, O99.282, O99.283, O99.284, O99.285, O99.320, O99.321, O99.322, O99.323, O99.324, O99.325, O99.330, O99.331, O99.332, O99.333, O99.334, O99.335, O99.340, O99.341, O99.342, O99.343, O99.344, O99.345, O99.350, O99.351, O99.352, O99.353, O99.354, O99.355, O99.411, O99.412, O99.413, O99.419, O99.42, O99.43, O99.53, O99.63, O99.810, O99.814, O99.815, O99.834, O99.835, O99.840, O99.841, O99.842, O99.843, O99.844, O99.845, O99.89, O9A.23, Z33.1, Z33.2, Z34.00, Z34.80, Z34.90
Uterine Fibroids	ICD-9: 218.0, 218.1, 218.2, 218.9 ICD-10: D25.0, D25.1, D25.2, D25.9
Ultrasonography	CPT/HCPCS: 76830, 76856
Pelvic MRI	ICD-9: 793.6 ICD-9 Proc: 88.95 ICD-10: R93.5

Measure	Definition
	ICD-10 Proc: 8E0WXBH, BR3CY0Z, BR3CYZZ, BR3CZZZ, BR3FY0Z, BR3FYZZ, BR3FZZZ, BW3GY0Z, BW3GYZZ, BW3GZZZ CPT/HCPCS: 72195, 72196, 72197, 74181, 74182, 74183
Chronic Headaches/Migraines	ICD-9: 346.0, 346.00, 346.01, 346.1, 346.10, 346.11, 346.2, 346.20, 346.21, 346.8, 346.80, 346.81, 346.9, 346.90, 346.91, 784.0 ICD-10: G43.001, G43.009, G43.011, G43.019, G43.101, G43.109, G43.111, G43.119, G43.401, G43.409, G43.411, G43.419, G43.501, G43.509, G43.511, G43.519, G43.701, G43.709, G43.711, G43.719, G43.801, G43.809, G43.811, G43.819, G43.821, G43.829, G43.831, G43.839, G43.901, G43.909, G43.911, G43.919, G43.A0, G43.A1, G43.B0, G43.B1, G43.C0, G43.C1, G43.D0, G43.D1, G44.001, G44.009, G44.011, G44.019, G44.021, G44.029, G44.031, G44.039, G44.041, G44.049, G44.051, G44.059, G44.091, G44.099, G44.1, G44.201, G44.209, G44.211, G44.219, G44.221, G44.229, G44.301, G44.309, G44.311, G44.319, G44.321, G44.329, G44.40, G44.41, G44.51, G44.52, G44.53, G44.59, G44.81, G44.82, G44.83, G44.84, G44.85, G44.89, R51
Chronic Low Back Pain	ICD-9: 721.3, 722.10, 722.32, 722.52, 722.93, 724.02, 724.2, 724.3, 724.5, 724.6, 724.70, 724.71, 724.79, 738.5, 739.3, 739.4, 846.0, 846.1, 846.2, 846.3, 846.8, 846.9, 847.2 ICD-10: M43.27, M43.28, M46.47, M47.817, M48.06, M51.26, M51.27, M51.36, M51.37, M51.46, M51.47, M51.86, M51.87, M53.2X7, M53.2X8, M53.3, M54.30, M54.89, M99.03, M99.04, M99.83, M99.84, S33.5XXA, S33.6XXA, S33.8XXA, S33.9XXA
Fibromyalgia	ICD-9: 729.1

Measure	Definition
	ICD-10: M79.7, M60.9, M79.1
Interstitial Cystitis	ICD-9: 595.1 ICD-10: N30.1, N30.10, N30.11
Irritable Bowel Syndrome (IBS)	ICD-9: 564.1 ICD-10: K58, K58.0, K58.9
Allergic Rhinitis	ICD-9: 477, 477.0, 477.1, 477.2, 477.8, 477.9 ICD-10: J30.0, J30.1, J30.2, J30.5, J30.81, J30.89, J30.9, J30.8
Allergies	ICD-9: 477, 477.0, 477.1, 477.2, 477.8, 477.9, 525.66, 995.0, 995.1, 995.2, 995.20, 995.21, 995.22, 995.23, 995.24, 995.27, 995.29, 995.3, 995.4, 995.6, 995.60, 995.61, 995.62, 995.63, 995.64, 995.65, 995.66, 995.67, 995.68, 995.69, 995.7, V14, V14.0, V14.1, V14.2, V14.3, V14.4, V14.5, V14.6, V14.7, V14.8, V14.9, V15.0, V15.01, V15.02, V15.03, V15.04, V15.05, V15.06, V15.07, V15.08, V15.09 ICD-10: J30, J30.0, J30.1, J30.2, J30.5, J30.8, J30.81, J30.89, J30.9, J31, J31.0, J31.1, J31.2, K08.55, T78, T78.0, T78.00, T78.00XA, T78.00XD, T78.00XS, T78.01, T78.01XA, T78.01XD, T78.01XS, T78.02, T78.02XA, T78.02XD, T78.02XS, T78.03XA, T78.03XD, T78.03XS, T78.04, T78.04XA, T78.04XD, T78.04XS, T78.05, T78.05XA, T78.05XD, T78.05XS, T78.06XA, T78.06XD, T78.06XS, T78.07, T78.07XA, T78.07XD, T78.07XS, T78.08, T78.08XA, T78.08XD, T78.08XS, T78.09, T78.09XA, T78.09XD, T78.09XS, T78.1, T78.1XXA, T78.1XXD, T78.1XXS, T78.2, T78.2XXA, T78.2XXD, T78.2XXS, T78.3, T78.3XXA, T78.3XXD, T78.3XXS, T78.4, T78.40, T78.40XA,

Measure	Definition
	T78.40XD, T78.40XS, T78.41XA, T78.41XD, T78.41XS, T78.49, T78.49XA, T78.49XD, T78.49XS, T78.8XXA, T78.8XXD, T78.8XXS, Z88, Z88.0, Z88.1, Z88.2, Z88.3, Z88.4, Z88.5, Z88.6, Z88.7, Z88.8, Z88.9, Z91, Z91.0, Z91.01, Z91.010, Z91.011, Z91.012, Z91.013, Z91.018, Z91.02, Z91.030, Z91.038, Z91.04, Z91.040, Z91.041, Z91.048, Z91.09 CPT/HCPCS: 99.12
Asthma	ICD-9: 493, 493.0, 493.00, 493.01, 493.02, 493.1, 493.10, 493.11, 493.12, 493.2, 493.20, 493.21, 493.22, 493.8, 493.81, 493.82, 493.9, 493.90, 493.91, 493.92, V17.5 ICD-10: J44.0, J44.1, J44.9, J45.20, J45.21, J45.22, J45.901, J45.902, J45.909, J45.990, J45.991, J45.998, Z82.5
Eczema	ICD-9: 692, 692.0, 692.1, 692.2, 692.3, 692.4, 692.5, 692.6, 692.7, 692.70, 692.74, 692.79, 692.8, 692.81, 692.82, 692.83, 692.84, 692.89, 692.9 ICD-10: L25, L25.0, L25.1, L25.2, L25.3, L25.4, L25.5, L25.8, L25.9
Diabetes Mellitus, Type II	ICD-9: 250.00, 250.02, 250.10, 250.12, 250.20, 250.22, 250.30, 250.32, 250.40, 250.42, 250.50, 250.52, 250.60, 250.62, 250.70, 250.72, 250.80, 250.82, 250.90, 250.92, 250, 250.0 ICD-10: E11, E11.01, E11.21, E11.29, E11.311, E11.319, E11.36, E11.39, E11.40, E11.51, E11.618, E11.620, E11.621, E11.622, E11.628, E11.630, E11.638, E11.641, E11.649, E11.65, E11.69, E11.8, E11.9, E13.10, E11.00
Fatigue	ICD-9: 780.7, 780.71, 780.79

Measure	Definition
	ICD-10: R53.81, R53.82, R53.83, G93.3, R53.0, R53.1
Hyperlipidemia	ICD-9: 272.0, 272.1, 272.2, 272.4 ICD-10: E78.1, E78.2, E78.4, E78.5 CPT/HCPCS: 0556F, G8585
Hypertension	ICD-9: 401, 401.0, 401.1, 401.9, 402, 402.0, 402.00, 402.1, 402.10, 402.9, 402.90, 403, 403.0, 403.00, 403.01, 403.1, 403.10, 403.11, 403.9, 403.90, 403.91, 404, 404.0, 404.00, 404.01, 404.02, 404.03, 404.1, 404.10, 404.11, 404.12, 404.13, 404.9, 404.90, 404.91, 404.92, 404.93, 405, 405.0, 405.01, 405.09, 405.1, 405.11, 405.19, 405.9, 405.91, 405.99 ICD-10: I10, I11, I11.0, I11.9, I12, I12.0, I12.9, I13, I13.0, I13.1, I13.10, I13.11, I13.2, I15, I15.0, I15.1, I15.2, I15.8, I15.9
Hypothyroidism	ICD-9: 243, 244, 244.0, 244.1, 244.2, 244.3, 244.8, 244.9 ICD-10: E00.9, E01.8, E03.2, E03.8, E03.9, E89.0, E02, E03, E03.3
Thyroid Disease	ICD-9: 240, 240.0, 240.9, 241, 241.0, 241.1, 241.9, 242, 242.0, 242.00, 242.01, 242.1, 242.10, 242.11, 242.2, 242.20, 242.21, 242.3, 242.30, 242.31, 242.4, 242.40, 242.41, 242.8, 242.80, 242.81, 242.9, 242.90, 242.91, 243, 244, 244.0, 244.1, 244.2, 244.3, 244.8, 244.9, 245, 245.0, 245.1, 245.2, 245.3, 245.4, 245.8, 245.9, 246, 246.0, 246.1, 246.2, 246.3, 246.8, 246.9 ICD-10: E00, E01, E02, E03, E04, E05, E06, E07
Hysterectomy	ICD-10 Proc: 0UT04ZZ, 0UT14ZZ, 0UT24ZZ, 0UT44ZZ, 0UT54ZZ, 0UT64ZZ, 0UT74ZZ, 0UT94ZZ, 0UT07ZZ, 0UT08ZZ, 0UT17ZZ, 0UT18ZZ, 0UT27ZZ,

Measure	Definition
	0UT28ZZ, 0UT40ZZ, 0UT50ZZ, 0UT60ZZ, 0UT70ZZ, 0UT90ZZ, 0UT0FZZ, 0UT1FZZ, 0UT2FZZ, 0UT5FZZ, 0UT6FZZ, 0UT7FZZ, 0UT9FZZ, 0UTC4ZZ, 0UT47ZZ, 0UT57ZZ, 0UT58ZZ, 0UT67ZZ, 0UT68ZZ, 0UT77ZZ, 0UT78ZZ, 0UT97ZZ CPT/HCPCS: 58150, 58152, 58180, 58200, 58210, 58240, 58260, 58262, 58263, 58267, 58270, 58275, 58280, 58285, 58290, 58291, 58292, 58293, 58294, 58541, 58542, 58543, 58544, 58550, 58552, 58553, 58554, 58570, 58571, 58572, 58573, 58953, 58954, 58956, 68.4, 68.51, 68.61, S2078, 56308
Vitamin D Deficiency	ICD-9: 268, 268.0, 268.1, 268.2, 268.9 ICD-10: E55, M83.9
Medication Use	
Antihypertensives	NDC Generic Name: ACEBUTOLOL HCL, AMILORIDE HCL, AMILORIDE HCL/HYDROCHLOROTHIAZIDE, AMLODIPINE BESYLATE, AMLODIPINE BESYLATE/ATORVASTATIN CALCIUM, AMLODIPINE BESYLATE/BENAZEPRIL HCL, AMLODIPINE BESYLATE/OLMESARTAN MEDOXOMIL, AMLODIPINE BESYLATE/VALSARTAN, AMLODIPINE BESYLATE/VALSARTAN/HYDROCHLOROTHIAZIDE, ATENOLOL, ATENOLOL/CHLORTHALIDONE, AZILSARTAN MEDOXOMIL, AZILSARTAN MEDOXOMIL/CHLORTHALIDONE, BENAZEPRIL HCL, BENAZEPRIL HCL/HYDROCHLOROTHIAZIDE, BEPRIDIL HCL, BETAXOLOL HCL, BISOPROLOL FUMARATE, BISOPROLOL FUMARATE/HYDROCHLOROTHIAZIDE, BUMETANIDE, CANDESARTAN CILEXETIL, CANDESARTAN CILEXETIL/HYDROCHLOROTHIAZIDE, CAPTOPRIL, CAPTOPRIL/HYDROCHLOROTHIAZIDE, CARTEOLOL HCL,

Measure	Definition
	CARVEDILOL, CARVEDILOL PHOSPHATE, CHLOROTHIAZIDE, CHLOROTHIAZIDE SODIUM, CHLORTHALIDONE, CLEVIDIPINE BUTYRATE, CLONIDINE, DILTIAZEM HCL, DILTIAZEM HCL IN 0.9 % SODIUM CHLORIDE, DILTIAZEM HCL/DEXTROSE 5 % IN WATER, DILTIAZEM MALATE, DOXAZOSIN MESYLATE, ENALAPRIL MALEATE, ENALAPRIL MALEATE/DILTIAZEM MALATE, ENALAPRIL MALEATE/FELODIPINE, ENALAPRIL MALEATE/HYDROCHLOROTHIAZIDE, ENALAPRILAT DIHYDRATE, EPLERENONE, EPROSARTAN MESYLATE, EPROSARTAN MESYLATE/HYDROCHLOROTHIAZIDE, ESMOLOL HCL, ETHACRYNATE SODIUM, ETHACRYNIC ACID, FELODIPINE, FOSINOPRIL SODIUM, FOSINOPRIL SODIUM/HYDROCHLOROTHIAZIDE, FUROSEMIDE, FUROSEMIDE IN 0.9 % SODIUM CHLORIDE, HYDRALAZINE HCL, HYDRALAZINE HCL/HYDROCHLOROTHIAZIDE, HYDRALAZINE HCL/RESERPINE/HYDROCHLOROTHIAZIDE, HYDROCHLOROTHIAZIDE, HYDROFLUMETHIAZIDE, INDAPAMIDE, IRBESARTAN, ISRADIPINE, LABETALOL HCL, LISINOPRIL, LISINOPRIL/HYDROCHLOROTHIAZIDE, LOSARTAN POTASSIUM, LOSARTAN POTASSIUM/HYDROCHLOROTHIAZIDE, METHYCLOTHIAZIDE, METHYLDOPA, METOLAZONE, METOPROLOL SUCCINATE, METOPROLOL SUCCINATE/HYDROCHLOROTHIAZIDE, METOPROLOL TARTRATE, METOPROLOL TARTRATE/HYDROCHLOROTHIAZIDE, MOEXIPRIL HCL, MOEXIPRIL HCL/HYDROCHLOROTHIAZIDE, NADOLOL, NADOLOL/BENDROFLUMETHIAZIDE, NEBIVOLOL HCL, NICARDIPINE HCL, NICARDIPINE IN DEXTROSE 5 %-WATER, NIFEDIPINE, NIMODIPINE, OLMESARTAN MEDOXOMIL, OLMESARTAN MEDOXOMIL/AMLODIPINE BESYLATE/HYDROCHLOROTHIAZIDE,

Measure	Definition
	OLMESARTAN MEDOXOMIL/HYDROCHLOROTHIAZIDE, PENBUTOLOL SULFATE, PERINDOPRIL ARGININE/AMLODIPINE BESYLATE, PERINDOPRIL ERBUMINE, PINDOLOL, POLYTHIAZIDE, PRAZOSIN HCL, PRAZOSIN HCL/POLYTHIAZIDE, PROPRANOLOL HCL, PROPRANOLOL HCL/HYDROCHLOROTHIAZIDE, QUINAPRIL HCL, QUINAPRIL HCL/HYDROCHLOROTHIAZIDE, RAMIPRIL, SOTALOL HCL, SPIRONOLACTONE, TELMISARTAN, TERAZOSIN HCL, TIMOLOL, TIMOLOL MALEATE, TIMOLOL MALEATE/HYDROCHLOROTHIAZIDE, TIMOLOL MALEATE/PF, TORSEMIDE, TRANDOLAPRIL, TRANDOLAPRIL/VERAPAMIL HCL, TRIAMTERENE, TRICHLORMETHIAZIDE, VALSARTAN, VERAPAMIL HCL
Corticosteroids	AHFSC Therapeutic Category: 68040000 NDC Generic Name: PREDNISONE, PREDNISONE MICRONIZED, FLUTICASONE FUROATE, FLUTICASONE FUROATE/VILANTEROL TRIFENATATE, FLUTICASONE PROPIONATE, FLUTICASONE PROPIONATE, MICRONIZED, FLUTICASONE PROPIONATE/SALMETEROL XINAFOATE, FLUTICASONE PROPIONATE/SODIUM CHLORIDE/SODIUM BICARBONATE, AZELASTINE HCL/FLUTICASONE PROPIONATE, AZELASTINE/FLUTICASONE/SODIUM CHLORIDE/SODIUM BICARBONATE, METHYLPREDNISOLONE, METHYLPREDNISOLONE ACETATE, METHYLPREDNISOLONE ACETATE, MICRONIZED, METHYLPREDNISOLONE ACETATE/BUPIVACAINE HCL, METHYLPREDNISOLONE ACETATE/NORFLURANE/HFC 245FA, METHYLPREDNISOLONE SODIUM SUCCINATE, METHYLPREDNISOLONE SODIUM SUCCINATE/PF,

Measure	Definition
	METHYLPREDNISOLONE, MICRONIZED, BUDESONIDE, BUDESONIDE, MICRONIZED, BUDESONIDE/FORMOTEROL FUMARATE, PREDNISOLONE, PREDNISOLONE ACETATE, PREDNISOLONE ACETATE, MICRONIZED, PREDNISOLONE SOD PHOSPHATE, PREDNISOLONE SODIUM PHOSPHATE/PEAK FLOW METER, PREDNISOLONE, MICRONIZED, GENTAMICIN SULFATE/PREDNISOLONE ACETATE, NEOMYCIN SULFATE/POLYMYXIN B SULFATE/PREDNISOLONE, SULFACETAMIDE SODIUM/PREDNISOLONE ACETATE, SULFACETAMIDE SODIUM/PREDNISOLONE SODIUM PHOSPHATE, DEXAMETHASONE, DEXAMETHASONE ACETATE, DEXAMETHASONE ACETATE, MICRONIZED, DEXAMETHASONE ISONICOTINATE, DEXAMETHASONE PHOSPHATE, DEXAMETHASONE PHOSPHATE/LIDOCAINE HCL, DEXAMETHASONE SOD PHOSPHATE, DEXAMETHASONE SODIUM PHOSPHATE IN 0.9 % SODIUM CHLORIDE, DEXAMETHASONE SODIUM PHOSPHATE/PF, DEXAMETHASONE, MICRONIZED, DEXAMETHASONE/SALIVA COLLECTION DEVICE, CIPROFLOXACIN HCL/DEXAMETHASONE, NEOMYCIN SULFATE/DEXAMETHASONE SOD PHOSPHATE, NEOMYCIN/POLYMYXIN B SULFATE/DEXAMETHASONE, TOBRAMYCIN/DEXAMETHASONE, BECLOMETHASONE DIPROPIONATE, MOMETASONE FUROATE, MOMETASONE FUROATE/AMMONIUM LACTATE, MOMETASONE FUROATE/FORMOTEROL FUMARATE, FLUDROCORTISONE ACETATE, HYDROCORTISONE, HYDROCORTISONE ACETATE, HYDROCORTISONE ACETATE/ALOE POLYSACCHARIDE/IODOQUINOL, HYDROCORTISONE ACETATE/ALOE VERA, HYDROCORTISONE ACETATE/IODOQUINOL/ALOE POLYSACCHARIDES #2,

Measure	Definition
	HYDROCORTISONE ACETATE/IODOQUINOL/ALOE VERA, HYDROCORTISONE ACETATE/LIDOCAINE HCL/ALOE VERA, HYDROCORTISONE ACETATE/LIDOCAINE HCL/SKIN CLEANSER NO.6, HYDROCORTISONE ACETATE/PRAMOXINE HCL, HYDROCORTISONE ACETATE/PRAMOXINE HCL/ALOE POLYSACCHARIDE, HYDROCORTISONE ACETATE/PRAMOXINE HCL/EMOLLIENT BASE, HYDROCORTISONE ACETATE/PRAMOXINE HCL/SKIN CLEANSER NO.16, HYDROCORTISONE ACETATE/PRAMOXINE/EMOLLIENT/PRAMOXINE CMB NO1, HYDROCORTISONE ACETATE/UREA, HYDROCORTISONE BUTYRATE, HYDROCORTISONE BUTYRATE/EMOLLIENT BASE, HYDROCORTISONE CYPIONATE, HYDROCORTISONE HEMISUCCINATE, HYDROCORTISONE PROBUTATE, HYDROCORTISONE SOD PHOSPHATE, HYDROCORTISONE SOD SUCCINATE, HYDROCORTISONE SODIUM SUCCINATE/PF, HYDROCORTISONE VALERATE, HYDROCORTISONE/ALOE POLYSACCHARIDE/IODOQUINOL, HYDROCORTISONE/ALOE VERA, HYDROCORTISONE/ALOE VERA/VITAMIN E ACETATE/VITAMINS A AND D, HYDROCORTISONE/BENZOCAINE/CHLOROXYLENOL, HYDROCORTISONE/COLLOIDAL OATMEAL/ALOE/VITAMIN E, HYDROCORTISONE/EMOLLIENT COMBINATION NO.45, HYDROCORTISONE/IODOQUINOL, HYDROCORTISONE/MINERAL OIL/PETROLATUM,WHITE, HYDROCORTISONE/PRAMOXINE HCL/CHLOROXYLENOL, HYDROCORTISONE/PRAMOXINE HCL/CHLOROXYLENOL/WATER, HYDROCORTISONE/PRAMOXINE/CHLOROXYLENOL/BENZALKONIUM, HYDROCORTISONE/PRAMOXINE/DIOSMIN1/ALOE POLYSAC

Measure	Definition
	1/POLICOSANOL, HYDROCORTISONE/RESORCINOL/BISMUTH SUBGALLATE/ZINC OXIDE, HYDROCORTISONE/SALICYLIC ACID/SULFUR, HYDROCORTISONE/SALICYLIC ACID/SULFUR/SHAMPOO CMB 1, HYDROCORTISONE/SKIN CLEANSER COMBINATION NO.25, HYDROCORTISONE/SKIN CLEANSER COMBINATION NO.35, HYDROCORTISONE/YERBA SANTA, ACETIC ACID/HYDROCORTISONE, ACYCLOVIR/HYDROCORTISONE, BENZOYL PEROXIDE/HYDROCORTISONE, BENZOYL PEROXIDE/HYDROCORTISONE/SKIN CLEANSER COMB NO.14, CHLORCYCLIZINE HCL/HYDROCORTISONE ACETATE, CHLOROXYLENOL/BENZOCAINE/HYDROCORTISONE ACETATE, CIPROFLOXACIN HCL/HYDROCORTISONE, CLIOQUINOL/HYDROCORTISONE, CLIOQUINOL/HYDROCORTISONE/EMOLLIENT COMBINATION NO.88, CLIOQUINOL/HYDROCORTISONE/PRAMOXINE, DIPHENHYDRAMINE HCL/HYDROCORTISONE, KETOCONAZOLE/HYDROCORTISONE, LIDOCAINE HCL/HYDROCORTISONE ACETATE, LIDOCAINE HCL/HYDROCORTISONE ACETATE/PSYLLIUM HUSK, NEOMYCIN SULFATE/BACITRACIN ZINC/POLYMYXIN B/HYDROCORTISONE, NEOMYCIN SULFATE/COLISTIN SULFATE/HYDROCORTISONE, NEOMYCIN SULFATE/HYDROCORTISONE, NEOMYCIN SULFATE/HYDROCORTISONE ACETATE, NEOMYCIN SULFATE/POLYMYXIN B SULFATE/BUFFERS/HYDROCORTISONE, NEOMYCIN SULFATE/POLYMYXIN B SULFATE/HYDROCORTISONE, NEOMYCIN/BACITRACIN/POLYMYXIN B/HYDROCORTISONE, OXYTETRACYCLINE HCL/HYDROCORTISONE ACETATE, POLYMYXIN

Measure	Definition
	B SULFATE/HYDROCORTISONE, PYRILAMINE/PHENIRAMINE/CHLORPHENIRAMINE/HYDROCORTISONE
Non-Opioid Analgesics	AHFSC Therapeutic Category: 280804 NDC Generic Name: IBUPROFEN, IBUPROFEN LYSINE/PF, IBUPROFEN/CAFFEINE/VITAMINS B1, B2, B6, & B12, IBUPROFEN/DIETARY SUPPLEMENT,MISC. CB.11, IBUPROFEN/FAMOTIDINE, NAPROXEN/DIETARY SUPPLEMENT,MISC. CB.11, NAPROXEN, NAPROXEN SODIUM, DICLOFENAC SODIUM, DICLOFENAC SODIUM, MICRONIZED, DICLOFENAC SUBMICRONIZED, DICLOFENAC SODIUM/MISOPROSTOL, KETOPROFEN, KETOPROFEN, MICRONIZED, FLURBIPROFEN, FLURBIPROFEN SODIUM, MEFENAMIC ACID, MECLOFENAMATE SODIUM
Opioid Analgesics	NDC Generic Name: FENTANYL, METHADONE HCL, METHADONE HYDROCHLORIDE IN 0.9 % SODIUM CHLORIDE, OXYCODONE HCL, OXYCODONE HCL/ACETAMINOPHEN, OXYCODONE HCL/ASPIRIN, OXYCODONE HCL/OXYCODONE TEREPHTHALATE/ASPIRIN, OXYCODONE MYRISTATE, OXYCODONE/ASPIRIN, IBUPROFEN/OXYCODONE HCL, CODEINE PHOSPHATE, CODEINE PHOSPHATE/BROMODIPHENHYDRAMINE HCL, CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE, CODEINE PHOSPHATE/GUAIFENESIN, CODEINE PHOSPHATE/PYRILAMINE MALEATE, CODEINE POLISTIREX/CHLORPHENIRAMINE POLISTIREX, CODEINE SULFATE, CODEINE/CALCIUM IODIDE, ACETAMINOPHEN WITH CODEINE PHOSPHATE, ASPIRIN/CODEINE PHOSPHATE, MORPHINE SULFATE, MORPHINE SULFATE IN 0.9 % SODIUM

Measure	Definition
	CHLORIDE, MORPHINE SULFATE IN 0.9 % SODIUM CHLORIDE/PF, MORPHINE SULFATE IN SODIUM CHLORIDE, ISO-OSMOTIC/PF, MORPHINE SULFATE LIPOSOMAL/PF, MORPHINE SULFATE/DEXTROSE 5 % IN WATER, MORPHINE SULFATE/DEXTROSE 5%-WATER/PF, MORPHINE SULFATE/NALTREXONE HCL, MORPHINE SULFATE/PF, HYDROMORPHONE HCL, HYDROMORPHONE HCL IN 0.9 % SODIUM CHLORIDE, HYDROMORPHONE HCL IN 0.9 % SODIUM CHLORIDE/PF, HYDROMORPHONE HCL IN DEXTROSE 5 %-WATER/PF, HYDROMORPHONE HCL/BUPIVACAINE HCL IN 0.9% SODIUM CHLORIDE/PF, HYDROMORPHONE HCL/GUAIFENESIN, HYDROMORPHONE HCL/PF, HYDROMORPHONE HCL/ROPIVACAINE IN 0.9 % SODIUM CHLORIDE/PF, OXYMORPHONE HCL, LEVORPHANOL TARTRATE, MEPERIDINE HCL, MEPERIDINE HCL IN 0.9 % SODIUM CHLORIDE, MEPERIDINE HCL IN 0.9 % SODIUM CHLORIDE/PF, MEPERIDINE HCL/ATROPINE SULFATE, MEPERIDINE HCL/PF, MEPERIDINE HCL/PROMETHAZINE HCL, OPIUM TINCTURE, OPIUM/BELLADONNA ALKALOIDS, HYDROCODONE BIT/CHLORPHENIRAMINE/PSEUDOEPHEDRINE/GUAIFENESIN, HYDROCODONE BITART/BROMPHENIRAMINE MAL/PSEUDOEPHEDRINE HCL, HYDROCODONE BITART/CHLORPHENIRAMINE MALEATE/PSEUDOEPHEDRINE, HYDROCODONE BITARTRATE, HYDROCODONE BITARTRATE/ACETAMINOPHEN, HYDROCODONE BITARTRATE/ACETAMINOPHEN/DIETARY SUPPLEMENT #11, HYDROCODONE BITARTRATE/ASPIRIN, HYDROCODONE BITARTRATE/CARBINOXAMINE MAL/PSEUDOEPHEDRINE HCL, HYDROCODONE BITARTRATE/CHLORPHENIRAMINE MALEATE,

Measure	Definition
	HYDROCODONE BITARTRATE/HOMATROPINE, HYDROCODONE BITARTRATE/HOMATROPINE METHYLBROMIDE, HYDROCODONE BITARTRATE/PSEUDOEPHEDRINE HCL/GUAIFENESIN, HYDROCODONE POLISTIREX/CHLORPHENIRAMINE POLISTIREX, HYDROCODONE TANNATE/CHLORPHENIRAMINE TANNATE, HYDROCODONE/IBUPROFEN, TRAMADOL HCL, TRAMADOL HCL/ACETAMINOPHEN, TRAMADOL HCL/DIETARY SUPPLEMENT,MISC. CB.11
Combined Oral Contraceptives	ICD-9: V25.01, V25.41 ICD-10: Z30.41, Z30.011 AHFSC Therapeutic Category: 68120000 NDC Generic: LEVONORGESTREL/ETHINYL ESTRADIOL/FERROUS BISGLYCINATE, DESOGESTREL-ETHINYL ESTRADIOL/ETHINYL ESTRADIOL, DROSPIRENONE/ETHINYL ESTRADIOL/LEVOMEFOLATE CALCIUM, NORETHINDRONE-ETHINYL ESTRADIOL/FERROUS FUMARATE, LEVONORGESTREL/ETHINYL ESTRADIOL AND ETHINYL ESTRADIOL, NORGESTREL-ETHINYL ESTRADIOL, ETHYNODIOL DIACETATE-ETHINYL ESTRADIOL, ETHINYL ESTRADIOL/DROSPIRENONE, DESOGESTREL-ETHINYL ESTRADIOL, NORETHINDRONE ACETATE-ETHINYL ESTRADIOL, NORETHINDRONE ACETATE-ETHINYL ESTRADIOL/FERROUS FUMARATE, NORGESTIMATE-ETHINYL ESTRADIOL, LEVONORGESTREL-ETHINYL ESTRADIOL, NORETHINDRONE-ETHINYL ESTRADIOL

Measure	Definition
	CPT/HCPCS: S4993

Web Table 3. Additional Baseline Characteristics of Women With and Without Endometriosis,

Optum Clinformatics® DataMart, 2000-2019[a,b]

	Endometriosis	No Endometriosis	Difference
	N=72,677	N=147,251	
Immunological Comorbidities			
Allergic Rhinitis	12,650 (17.4%)	25,992 (17.7%)	-0.2% (-0.6%, -0.1%)
Allergies	16,202 (22.3%)	30,358 (20.6%)	1.7% (1.3%, 2.0%)
Asthma	6,362 (8.8%)	9,526 (6.5%)	2.3% (2.0%, 2.5%)
Other Comorbidities or Medication Use			
Diabetes Mellitus, Type II	2,320 (3.2%)	4,520 (3.1%)	0.1% (0.0%, 0.3%)
Fatigue	14,506 (20.0%)	26,583 (18.1%)	1.9% (1.6%, 2.3%)
Hyperlipidemia	8,461 (11.6%)	19,770 (13.4%)	-1.8% (-2.1%, -1.5%)
Hypertension	6,026 (8.3%)	11,642 (7.9%)	0.4% (0.1%, 0.6%)
Hypothyroidism	6,570 (9.0%)	12,111 (8.2%)	0.8% (0.6%, 1.1%)
Thyroid Disease	7,975 (11.0%)	15,480 (10.5%)	0.5% (0.2%, 0.7%)
Vitamin D Deficiency	2,052 (2.8%)	4,505 (3.1%)	-0.2% (-0.4%, -0.1%)
Use of Antihypertensives	5,401 (7.4%)	10,486 (7.1%)	0.3% (0.1%, 0.5%)

[a]Patients were excluded if they had a prior diagnosis of depression (dx OR rx), anxiety (dx OR rx), self-directed violence, prior prescription fill of an anti-anxiety or anti-depressant medication, prior diagnosis of cancer, or prior hysterectomy.
[b]All values are n (%) unless otherwise specified.

Web Table 4. Incidence of Anxiety and Depression Based on Alternative Outcome Definitions, Optum Clinformatics® DataMart, 2000-2019

	Outcome: Diagnosis *or* Medication Use		Outcome: Diagnosis *and* Medication Use	
	Endometriosis	No Endometriosis	Endometriosis	No Endometriosis
	N=72,677	N=147,251	N=72,677	N=147,251
Incident Anxiety				
No. of Events	17,898	28,602	5,189	8,291
Incidence per 1,000 Person-Years	146.9	86.4	34.1	21.4
Incident Depression				
No. of Events	12,361	20,038	4,460	6,966
Incidence per 1,000 Person-Years	90.8	56.3	28.9	17.8

[a]Patients began follow-up 1 day after cohort entry and were censored on occurrence of the outcome, hysterectomy, death, disenrollment or end of data.

Web Table 5. Association Between Endometriosis and Anxiety and Depression Based on Alternative Outcome Definitions, Optum Clinformatics® DataMart, 2000-2019[a]

	Crude		Adjusted[b]	
	HR	95% CI	HR	95% CI
Incident Anxiety				
Diagnosis *or* Medication Use	1.63	1.60, 1.67	1.58	1.55, 1.61
Diagnosis *and* Medication Use	1.57	1.51, 1.62	1.50	1.45, 1.56
Incident Depression				
Diagnosis *or* Medication Use	1.55	1.51, 1.58	1.52	1.48, 1.56
Diagnosis *and* Medication Use	1.58	1.52, 1.64	1.55	1.49, 1.62

Abbreviations: CI, confidence interval; HR, hazard ratio.

[a]Patients began follow-up 1 day after cohort entry and were censored on occurrence of the outcome, hysterectomy, death, disenrollment or end of data.

[b]Multivariable models adjusted for race/ethnicity, region of residence, uterine fibroids, chronic headaches/migraines, chronic lower back pain, fibromyalgia, asthma, diabetes mellitus type 2, fatigue, hypertension, hypothyroidism, vitamin D deficiency, use of opioid analgesics, use of antihypertensives, and use of corticosteroids.

Web Table 6. Incidence of Anxiety, Depression, and Self-directed Violence in Women With Laparoscopically Confirmed Endometriosis and Women Without Endometriosis, Optum Clinformatics® DataMart, 2000-2019[a]

	Laparoscopically Confirmed Endometriosis	No Endometriosis
	N=38,623	N=77,823
Incident Anxiety		
No. of Events	4,502	8,069
Incidence per 1,000 Person-Years	54.4	40.1
Incident Depression		
No. of Events	3,876	6,682
Incidence per 1,000 Person-Years	46.2	32.7
Incident Self-Directed Violence		
No. of Events	73	99
Incidence per 1,000 Person-Years	0.78	0.44

[a]Patients began follow-up 1 day after cohort entry and were censored on occurrence of the outcome, hysterectomy, death, disenrollment or end of data.

Web Table 7. Association Between Laparoscopically Confirmed Endometriosis and Anxiety, Depression, and Self-directed Violence, Optum Clinformatics® DataMart, 2000-2019[a]

	Crude		Adjusted[b]	
	HR	95% CI	HR	95% CI
Incident Anxiety	1.34	1.29, 1.39	1.16	1.10, 1.21
Incident Depression	1.38	1.32, 1.43	1.25	1.19, 1.32
Incident Self-Directed Violence	1.78	1.31, 2.41	1.29	0.87, 1.92

Abbreviations: CI, confidence interval; HR, hazard ratio.

[a]Patients began follow-up 1 day after cohort entry and were censored on occurrence of the outcome, hysterectomy, death, disenrollment or end of data.

[b]Multivariable models adjusted for race/ethnicity, region of residence, uterine fibroids, chronic headaches/migraines, chronic lower back pain, fibromyalgia, asthma, diabetes mellitus type 2, fatigue, hypertension, hypothyroidism, vitamin D deficiency, use of opioid analgesics, use of antihypertensives, and use of corticosteroids.