

**Supplemental Online Content**

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Supplemental Table 1. ICD-9-CM, ICD-10-CM, and procedure codes for endometriosis, covariates, and study outcomes

| Measure   | Definition  |
|---|---|
| <b>Exposure</b>                                 |   |
| Uterine Fibroids                                | ICD-9: 218.0, 218.1, 218.2, 218.9<br>ICD-10: D25.0, D25.1, D25.2, D25.9   |
| Ultrasonography                                 | CPT/HCPCS: 76830, 76856   |
| Pelvic MRI                                      | ICD-9: 793.6<br>ICD-9 Proc: 88.95<br>ICD-10: R93.5<br>ICD-10 Proc: 8E0WXBH, BR3CY0Z, BR3CYZZ, BR3CZZZ, BR3FY0Z, BR3FYZZ, BR3FZZZ, BW3GY0Z, BW3GYZZ, BW3GZZZ<br>CPT/HCPCS: 72195, 72196, 72197, 74181, 74182, 74183  |
| General Medical Exam/Annual Gynecological Visit | ICD-9: V70, V70.0, V70.3, V70.5, V70.8, V70.9, V72.31<br>ICD-10: Z00.0, Z00.00, Z00.01, Z01.41, Z01.411, Z01.419<br>CPT/HCPCS: 99386, S0610, S0612, S0613   |
| <b>Outcomes</b>                                 |   |
| 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<br>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   |
| 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<br>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  |
| Self-Directed Violence                          | Suicidal behavior, intentional self-inflicted injury or self harm<br>ICD-9: 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<br>ICD-10: 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, |

| Measure                        | Definition   |
|--------------------------------|--|
|                                | <p>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</p> <p>Suicidal ideation</p> <p>ICD-9: V62.84</p> <p>ICD-10: R45.851</p>  |
| Anti-depressant medication use | <p>AHFSC Therapeutic Category: 281604, 28160412, 28160416, 28160420, 28160424, 28160428, 28160492</p> <p>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, PAROXETINEMESYLATE, PERPHENAZINE/AMITRIPTYLINE HCL, PROTRIPTYLINE HCL, SERTRALINE HCL, TRIMIPRAMINE MALEATE, VENLAFAXINE HCL, VILAZODONE HCL, BUPROPION HCL, MIRTAZAPINE, NEFAZODONE HCL, PHENELZINE SULFATE, TRANYLCPROMINE SULFATE, TRAZODONE HCL, ISOCARBOXAZID</p> <p>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</p> |
| Anti-anxiety medication use    | <p>NDC Generic Name: ALPRAZOLAM, ATENOLOL, CHLORDIAZEPOXIDE, CLONAZEPAM, DIAZEPAM, ESCITALOPRAM OXALATE, FLUOXETINE, GABAPENTIN, LORAZEPAM, OXAZEPAM, PREGABALIN, AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE, PROPRANOLOL HCL, SERTRALINE HCL, TRANYLCPROMINE SULFATE, VENLAFAXINE HCL, AMITRIPTYLINE</p>  |

| Measure  | Definition  |
|--|---|
|  | <p>HCL, BUSPIRONE HCL, CHLORAL HYDRATE, CLOMIPRAMINE HCL, CLORAZEPATE DIPOTASSIUM, DESIPRAMINE HCL, HYDROXYZINE HCL, IMIPRAMINE HCL, NORTRIPTYLINE HCL, PAROXETINE HCL, PAROXETINE MESYLATE, PHENELZINE SULFATE</p> <p>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, LIMBITROLS, VANSPAR, AQUACHLORAL, NOCTEC, TRANXENE T-TAB, TRANXENE-T, VISTARIL, VISTARIL IM, HYZINE, VISTAJECT, REZINE, TOFRANIL-PM, AVENTYL HCL, PAXIL CR</p> |
| <b>Procedures</b>                              |   |
| Hysterectomy                                   | <p>ICD-10 Proc: 0UT04ZZ, 0UT14ZZ, 0UT24ZZ, 0UT44ZZ, 0UT54ZZ, 0UT64ZZ, 0UT74ZZ, 0UT94ZZ, 0UT07ZZ, 0UT08ZZ, 0UT17ZZ, 0UT18ZZ, 0UT27ZZ, 0UT28ZZ, 0UT40ZZ, 0UT50ZZ, 0UT60ZZ, 0UT70ZZ, 0UT90ZZ, 0UT0FZZ, 0UT1FZZ, 0UT2FZZ, 0UT5FZZ, 0UT6FZZ, 0UT7FZZ, 0UT9FZZ, 0UTC4ZZ, 0UT47ZZ, 0UT57ZZ, 0UT58ZZ, 0UT67ZZ, 0UT68ZZ, 0UT77ZZ, 0UT78ZZ, 0UT97ZZ</p> <p>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</p>  |
| Myomectomy                                     | CPT/HCPCS: 58146, 58546, 58140, 58145, 58545, 58561   |
| Uterine Artery Embolization                    | <p>ICD-9 Proc: 68.24, 68.25</p> <p>ICD-10 Proc: 04LE0DT, 04LE3DT, 04LE4DT, 04LF0DU, 04LF3DU, 04LF4DU, 04LE0CT, 04LE0ZT, 04LE3CT, 04LE3ZT, 04LE4CT, 04LE4ZT, 04LF0CU, 04LF0ZU, 04LF3CU, 04LF3ZU, 04LF4CU, 04LF4ZU</p>  |
| <b>Covariates</b>                              |   |
| <b>Encounter with a mental health provider</b> | <p>NUCC Taxonomy Code: 103GC0700X, 103TP2700X, 103TE1100X, 102X00000X, 103TH0004X, 103TM1800X, 103TR0400X, 103TF0000X, 103TF0200X, 103TP2701X, 163WP0807X, 103TP0016X, 103TP0814X, 103TA0700X, 103TH0100X, 101YS0200X, 2084P0802X, 101YP1600X, 103TA0400X, 1041S0200X, 103TS0200X, 364SP0809X, 364SP0808X, 102L00000X, 163WP0809X, 261QM0850X, 103TB0200X, 163WP0808X, 103TC2200X, 261QM0801X, 103TC1900X, 103G00000X, 2084P0804X, 363LP0808X, 251S00000X, 103K00000X, 101YA0400X, 101Y00000X, 104100000X, 106H00000X, 103T00000X, 103TC0700X, 2084P0800X, 101YP2500X, 101YM0800X, 1041C0700X</p>   |
| <b>Symptoms</b>                                |   |
| Heavy Menstrual Bleeding                       | <p>ICD-9: 626.2, 626.8, 626.9, 627.0</p> <p>ICD-10: N92.0, N92.1, N92.4</p>   |

| Measure                     | Definition  |
|-----------------------------|---|
| Anemia or Blood Transfusion | <p>ICD-9: 280.0, 280.00, 280.01, 280.02, 280.03, 280.04, 280.05, 280.06, 280.07, 280.08, 280.09, 280.0Y, 999.62, E876.0, 999.6, 999.61, 999.63, 999.69, 999.8, 999.89, 999.83, 999.84, 999.85</p> <p>ICD-9 Proc: 99.06, 99, 99.02, 99.04, 99.07, 99.03, 99.05, 99.08</p> <p>ICD-10: D50.0, D50.8, D50.9, D62, D63.8, T80.911A, T80.919A, T80.310A, T80.311A, T80.39XA, T80.89XA, T80.319A, T80.30XA, T80.910A, T80.92XA, Y65.0</p> <p>ICD-10 Proc: 30233R1, 30240M1, 30240N1, 30240P1, 30240R1, 30240T1, 30243R1, 30250P1, 30253L1, 30260T1, 30263M1, 30233M1, 30240K1, 30240L1, 30243P1, 30250H1, 30250K1, 30253K1, 30253T1, 30260M1, 30260N1, 30260P1, 30263P1, 30233L1, 30240H1, 30240J1, 30243K1, 30243L1, 30243N1, 30250L1, 30250T1, 30253N1, 30260L1, 30263N1, 30263T1, 30230H1, 30230N1, 30230P1, 30233P1, 30233T1, 30243H1, 30243T1, 30250M1, 30253H1, 30253M1, 30253R1, 30260H1, 30263K1, 30230R1, 30233H1, 30233K1, 30233N1, 30243M1, 30250N1, 30250R1, 30253P1, 30260K1, 30260R1, 30263H1, 30263L1, 30263R1</p> <p>CPT/HCPCS: 36430</p>  |
| Dysmenorrhea                | <p>ICD-9: 625.3</p> <p>ICD-10: N94.6</p>  |
| Dyspareunia                 | <p>ICD-9: 625.0</p> <p>ICD-10: N94.1</p>  |
| Pelvic Pain                 | <p>ICD-9: 625.8, 625.9, 789.00, 789.01, 789.02, 789.03, 789.04, 789.05, 789.06, 789.07, 789.09</p> <p>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</p>  |
| <b>Medical conditions</b>   |   |
| Pregnancy                   | <p>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, 638.0, 638.1, 638.2, 638.3, 638.4, 638.5, 638.6, 638.7, 638.8, 638.9, 639, 639.0, 639.1, 639.2,</p> |

| Measure | Definition  |
|---------|---|
|         | <p>639.3, 639.4, 639.5, 639.6, 639.8, 639.9, 640, 640.0, 640.00, 640.01, 640.03, 640.8, 640.80, 640.81, 640.83, 640.9, 640.90, 640.91, 640.93, 641, 641.0, 641.00, 641.01, 641.03, 641.1, 641.10, 641.11, 641.13, 641.2, 641.20, 641.21, 641.23, 641.3, 641.30, 641.31, 641.33, 641.8, 641.80, 641.81, 641.83, 641.9, 641.90, 641.91, 641.93, 642, 642.0, 642.00, 642.01, 642.02, 642.03, 642.04, 642.1, 642.10, 642.11, 642.12, 642.13, 642.14, 642.2, 642.20, 642.21, 642.22, 642.23, 642.24, 642.3, 642.30, 642.31, 642.32, 642.33, 642.34, 642.4, 642.40, 642.41, 642.42, 642.43, 642.44, 642.5, 642.50, 642.51, 642.52, 642.53, 642.54, 642.6, 642.60, 642.61, 642.62, 642.63, 642.64, 642.7, 642.70, 642.71, 642.72, 642.73, 642.74, 642.9, 642.90, 642.91, 642.92, 642.93, 642.94, 643, 643.0, 643.00, 643.01, 643.03, 643.1, 643.10, 643.11, 643.13, 643.2, 643.20, 643.21, 643.23, 643.8, 643.80, 643.81, 643.83, 643.9, 643.90, 643.91, 643.93, 644, 644.0, 644.00, 644.03, 644.1, 644.10, 644.13, 644.2, 644.20, 644.21, 645, 645.1, 645.10, 645.11, 645.13, 645.2, 645.20, 645.21, 645.23, 646, 646.0, 646.00, 646.01, 646.03, 646.1, 646.10, 646.11, 646.12, 646.13, 646.14, 646.2, 646.20, 646.21, 646.22, 646.23, 646.24, 646.3, 646.30, 646.31, 646.33, 646.4, 646.40, 646.41, 646.42, 646.43, 646.44, 646.5, 646.50, 646.51, 646.52, 646.53, 646.54, 646.6, 646.60, 646.61, 646.62, 646.63, 646.64, 646.7, 646.70, 646.71, 646.73, 646.8, 646.80, 646.81, 646.82, 646.83, 646.84, 646.9, 646.90, 646.91, 646.93, 647, 647.0, 647.00, 647.01, 647.02, 647.03, 647.04, 647.1, 647.10, 647.11, 647.12, 647.13, 647.14, 647.2, 647.20, 647.21, 647.22, 647.23, 647.24, 647.3, 647.30, 647.31, 647.32, 647.33, 647.34, 647.4, 647.40, 647.41, 647.42, 647.43, 647.44, 647.5, 647.50, 647.51, 647.52, 647.53, 647.54, 647.6, 647.60, 647.61, 647.62, 647.63, 647.64, 647.8, 647.80, 647.81, 647.82, 647.83, 647.84, 647.9, 647.90, 647.91, 647.92, 647.93, 647.94, 648, 648.0, 648.00, 648.01, 648.02, 648.03, 648.04, 648.1, 648.10, 648.11, 648.12, 648.13, 648.14, 648.2, 648.20, 648.21, 648.22, 648.23, 648.24, 648.3, 648.30, 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, 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,</p> |

| Measure | Definition   |
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|         | <p>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, 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, 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,</p> |

| Measure | Definition  |
|---------|---|
|         | <p>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</p> <p>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, 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, 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,</p> |



| Measure | Definition  |
|---------|---|
|         | <p>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, 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, 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,</p> |

| Measure                  | Definition  |
|--------------------------|---|
|                          | 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  |
| Live birth               | <p>ICD-9: V27.0, V27.2, V27.3, V27.5, V27.6, V30, V30.0, V30.00, V30.01, V30.1, V30.2, V31, V31.0, V31.00, V31.01, V31.1, V31.2, V34, V34.0, V34.00, V34.01, V34.1, V34.2, V39, V39.0, V39.00, V39.01, V39.1, V39.2, 767 and is not V27.1</p> <p>ICD-10: 0W8NXZZ, 10D00Z2, 10D07Z3, 10D07Z4, 10D07Z5, 10D00Z0, 10D00Z1 (and is not Z37.1 for all)</p> <p>CPT/HCPCS: 59410, 59515, 59610, 59409, 59514, 59618, 59620, 59622, 59510, 59612, 59614, 59400 (and is not V27.1 or Z37.1 for all)</p>  |
| Infertility              | <p>ICD-9: 628.0, 628.1, 628.2, 628.3, 628.4, 628.8, 628.9, 628, V26, V26.1, V26.2, V26.21, V26.4, V26.41, V26.42, V26.49, V26.81, V26.82, V26.89, V26.9</p> <p>ICD-9 Proc: 69.92</p> <p>ICD-10: N97.0, N97.1, N97.2, N97.8, N97.9, N97, Z31, Z31.6, Z31.61, Z31.62, Z31.69, Z31.8, Z31.9</p> <p>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, 80415, 80426, 82670, 83001, 83002, 84144, J0725, J3355, S0122, S0126, S0128</p> <p>AHFSC Therapeutic Category: 68180000 and is not any of LEUPROLIDE ACETATE, LEUPROLIDE ACETATE/LIDOCAINE HCL, LEUPROLIDE ACETATE/NORETHINDRONE ACETATE</p> <p>NDC Generic Name: CLOMIPHENECITRATE, UROFOLLITROPIN, CHORIONIC GONADOTROPIN, HUMAN, MENOTROPINS, FOLLITROPIN ALFA, RECOMB, CHORIOGONADOTROPIN ALFA, FOLLITROPIN BETA, RECOMB, HISTRELIN ACETATE, LUTROPIN ALFA, NAFARELIN ACETATE, DEGARELIX ACETATE, ABARELIX, CETRORELIX ACETATE, GANIRELIX ACETATE, FOLLITROPIN BETA, RECOMB/GANIRELIX ACETATE</p> |
| Allergic Rhinitis        | <p>ICD-9: 477, 477.0, 477.1, 477.2, 477.8, 477.9</p> <p>ICD-10: J30.0, J30.1, J30.2, J30.5, J30.81, J30.89, J30.9, J30.8</p>  |
| Asthma                   | <p>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</p> <p>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</p>   |
| Irritable Bowel Syndrome | <p>ICD-9: 564.1</p> <p>ICD-10: K58, K58.0, K58.9</p>  |
| Psoriasis                | ICD-9: 696, 696.0, 696.1, 696.8, 696.2  |

| Measure                     | Definition  |
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|                             | ICD-10: L40, L40.0, L40.1, L40.3, L40.4, L40.5, L40.50, L40.51, L40.52, L40.53, L40.54, L40.59, L40.8, L40.9, L40.2, L41.0, L41.1, L41.8, L44.8   |
| 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<br><br>ICD-10: L25, L25.0, L25.1, L25.2, L25.3, L25.4, L25.5, L25.8, L25.9   |
| 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<br><br>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  |
| Fatigue                     | ICD-9: 780.7, 780.71, 780.79<br><br>ICD-10: R53.81, R53.82, R53.83, G93.3, R53.0, R53.1   |
| Vitamin D Deficiency        | ICD-9: 268, 268.0, 268.1, 268.2, 268.9<br><br>ICD-10: E55, M83.9  |
| 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<br><br>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 |
| 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<br><br>ICD-10: E00, E01, E02, E03, E04, E05, E06, E07   |
| Hypothyroidism              | ICD-9: 243, 244, 244.0, 244.1, 244.2, 244.3, 244.8, 244.9<br><br>ICD-10: E00.9, E01.8, E03.2, E03.8, E03.9, E89.0, E02, E03, E03.3  |
| 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   |

| Measure                          | Definition   |
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|                                  | 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   |
| Hyperlipidemia                   | ICD-9: 272.0, 272.1, 272.2, 272.4<br>ICD-10: E78.1, E78.2, E78.4, E78.5<br>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<br>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   |
| Fibromyalgia                     | ICD-9: 729.1<br>ICD-10: M79.7, M60.9, M79.1  |
| <b>Medication use</b>            |  |
| Combined Hormonal Contraceptives | ICD-9: V25.01, V25.41<br>ICD-10: Z30.41, Z30.011<br>AHFSC Therapeutic Category: 68120000<br>NDC Generic Name: 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<br>CPT/HCPCS: S4993 |
| Oral Progestin                   | NDC Generic Name: NORETHINDRONE, ESTRADIOL VALERATE/DIENOGEST, NORGESTREL, ULIPRISTAL ACETATE, LEVONORGESTREL, NORETHINDRONE-MESTRANOL<br>NDC Brand Name: AYGESTIN, DEBLITANE, ERRIN, HEATHER, JENCYCLA, JOLIVETTE, LYZA, NORETHINDRONE, NORLYDA, NORLYROC, ORTHO MICRONOR, OVRETTE, SHAROBEL, TULANA  |

| Measure                           | Definition  |
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| Depot Medroxyprogesterone Acetate | <p>NDC Generic Name: MEDROXYPROGESTERONE ACETATE</p> <p>NDC BrandName: DEPO-PROVERA, DEPO-SUBQPROVERA 104, PROVERA</p> <p>CPT/HCPCS: J1050, J1051, J1055</p>  |
| Intrauterine Device               | <p>ICD-9: V25.11, V25.42, V45.51</p> <p>ICD-9 Proc: 69.7</p> <p>ICD-10: Z30.430, Z30.431, Z97.5</p> <p>ICD-10 Proc: 0UHC8HZ, 0UH90HZ, 0UH97HZ, 0UH98HZ, 0UHC7HZ</p> <p>NDC Drug Code: 00536114263, 43386062230, 50102021101, 50419042101, 50419042408, 51285094288, 54868489400, 68180085311, 68180085313, 50102011112, 50102021111, 51285008888, 51285010388, 51285014619, 51285094388, 52544006554, 52544047536, 54569534300, 63704000901, 64679005002, 71205012001, 45802084054, 50419042308, 50419042401, 51285010088, 51285096319, 52544027536, 54569647000, 55045283902, 62756072060, 64836000001, 69536014619, 69536016288, 00008256401, 16714080901, 21695044302, 43386062030, 50419042301, 51285016288, 52544028754, 52959045002, 55045378302, 62756071860, 68180085211, 68462012340, 00023585801, 00113200312, 21695097301, 50090114100, 50102011101, 50102021116, 50419042201, 51285003820, 51285003893, 51285076993, 52544003554, 63704001001, 68180085212, 69536010388, 69536020088, 00008007501, 00008007502, 00008091202, 00008111720, 00008111730, 00008253301, 00008253302, 00008253303, 00008253501, 00008253502, 00008253503, 00008253505, 00008253601, 00008253602, 00008253603, 00008253605, 00008257601, 00008257602, 00093313482, 00093313491, 00093603182, 00093603191, 00093614882, 00093614891, 00254203273, 00254203280, 00254203291, 00378655053, 00378655085, 00378728153, 00378728485, 00378728490, 00378728590, 00378728753, 00378728785, 00378729853, 00378731685, 00555901458, 00555901467, 00555901479, 00555902058, 00555902079, 00555904558, 00555904579, 00555904758, 00555912366, 00603762501, 00603762517, 00603762549, 00603763401, 00603763417, 00603763449, 00781557515, 00781558307, 00781558315, 00781558336, 00781558436, 00781558491, 00905027721, 00905027928, 00905029128, 16714034001, 16714034004, 16714035901, 16714035903, 16714035904, 16714036601, 16714036603, 21695028128, 21695051428, 21695085501, 21695099528, 42254026028, 50090138000, 50090139200, 50090253400, 50102012001, 50102012003, 50102012010, 50102012048, 50102013001, 50102013003, 50102013010, 50102013048, 50102013090, 50102022021, 50102022023, 50102023021, 50102023023, 50419040603, 50419040803, 50419040872, 50419041021, 50419041112, 50419041128, 50419043006, 50419043021, 50419043106, 50419043128, 50419043203, 50419043206, 50419043303, 50419043306, 50419043312, 50419049104, 51285001728, 51285005866, 51285008787, 51285009158, 51285009287, 51285043165, 51285043187, 51285051428, 51660057286, 51862002801, 51862002806, 51862004501, 51862004591, 51862004701, 51862004791, 51862009701, 51862009706, 51862048965, 51862051001, 51862051006, 51862054501, 51862054506, 52544022829, 52544022891, 52544026829, 52544026884, 52544027721, 52544027928, 52544029128, 52544029528, 52544029531, 52544094928, 52544096691, 52544096728, 54569068100, 54569068101, 54569068200, 54569068201, 54569069400,</p> |

| Measure               | Definition   |
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|                       | <p>54569069401, 54569069500, 54569069501, 54569143800, 54569143900, 54569384400, 54569471000, 54569499700, 54569511500, 54569579800, 54569645500, 54569662000, 54868050700, 54868051800, 54868051801, 54868156400, 54868231600, 54868332800, 54868395100, 54868423900, 54868436800, 54868460700, 54868486000, 54868535600, 54868557000, 54868604400, 54868621000, 54868627500, 54868627600, 55045378206, 55289024708, 55289025308, 60322014521, 60322014728, 63187088928, 63955001001, 65862084828, 65862084888, 65862084928, 65862084988, 65862086494, 65862086495, 68180084311, 68180084313, 68180084411, 68180084413, 68180084611, 68180084613, 68180084811, 68180084813, 68180085411, 68180085413, 68180085711, 68180085713, 68180086011, 68180086012, 68462038829, 68462038884, 68462063729, 68462063784, 68462064691, 68462064693, 68462067291, 68462067295, 69238153106, 69238155406, 70700011684, 70700011685, 70700011787, 70700011884, 70700011885, 75854060203, 75854060228</p> <p>NDC Generic Name: LEVONORGESTREL</p> <p>NDC Brand Name: KYLEENA, LEVONORGESTREL, LILETTA, MIRENA, SKYLA</p> <p>CPT/HCPCS: J7298, J7297, J7300, J7302, 58300, J7301, J7296, Q9984</p>             |
| Tranexamic Acid       | <p>NDC Drug Code: 00013111401, 00013111408, 00013111410, 00013111415, 00013111420, 00013111421, 00016011400, 00016111408, 00517096001, 00517096010, 00591372030, 00601011400, 00601011408, 14789050010, 17478021710, 23155016631, 23155016641, 23155052431, 23155052441, 38779252002, 38779252004, 38779252005, 38779252008, 38779252009, 38779279402, 38779279404, 38779279405, 38779279408, 38779279409, 39822100001, 39822100106, 39822100107, 42192060501, 42192060510, 47781060122, 47781060191, 49452787602, 49452787603, 51552051305, 51552051307, 51552051309, 51552051350, 51754010801, 51754010803, 51927279300, 51927435200, 51927482200, 55150018810, 55566210001, 55566210002, 5556621002, 60429008430, 60505363801, 60505363803, 61990061100, 61990061102, 62991258101, 62991258102, 62991258103, 62991313101, 62991313102, 62991313103, 63323056301, 63323056310, 63323056397, 63370028025, 63370028035, 66479065001, 66479065030, 66993009030, 66993012130, 67457019700, 67457019710, 67457029300, 67457029310, 67850004100, 67850004110, 67850004200, 67850004210, 68084092932, 68084092933, 69543037613, 69543037622, 69543037623, 69918030130, 70860040010, 70860040041</p> |
| Non-Opioid Analgesics | <p>AHFSC Therapeutic Category: 280804</p> <p>NDC Generic Name: IBUPROFEN, IBUPROFEN LYSINE/PF, IBUPROFEN/CAFFEINE/VITAMINS B1, B2, B6, &amp; 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</p>   |

| Measure           | Definition  |
|-------------------|---|
| Opioid Analgesic  | <p>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 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, 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</p> |
| Antihypertensives | <p>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,</p>  |

| Measure | Definition   |
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|         | <p>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, 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, METHYLCLOTHIAZIDE, 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, 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</p> |
| Statins | <p>NDC Generic Name: ATORVASTATIN CALCIUM, AMLODIPINE BESYLATE/ATORVASTATIN CALCIUM, EZETIMIBE/ATORVASTATIN CALCIUM, SIMVASTATIN, EZETIMIBE/SIMVASTATIN, NIACIN/SIMVASTATIN, SITAGLIPTIN PHOSPHATE/SIMVASTATIN, PRAVASTATIN SODIUM, ASPIRIN (CALCIUM CARB &amp; MAGNESIUM BUFFERS)/PRAVASTATIN, FLUVASTATIN SODIUM, LOVASTATIN, NIACIN/LOVASTATIN, PITAVASTATIN CALCIUM, ROSUVASTATIN CALCIUM</p>  |



| Measure         | Definition  |
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|                 | NDC Brand Name: ALTOPREV, CRESTOR, LESCOL, LESCOL XL, LIPITOR, LIVALO, MEVACOR, PRAVACHOL, ZOCOR  |
| Corticosteroids | <p>AHFSC Therapeutic Category: 68040000</p> <p>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, METHYLPREDNISOLONE, MICRONIZED, BUDESONIDE, BUDESONIDE, MICRONIZED, BUDESONIDE/FORMOTEROL FUMARATE, PREDNISOLONE, PREDNISOLONE ACETATE, PREDNISOLONE ACETATE, MICRONIZED, PREDNISOLONE SODIUM 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 SODIUM 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 SODIUM PHOSPHATE, NEOMYCIN/POLYMYXIN B SULFATE/DEXAMETHASONE, TOBRAMYCIN/DEXAMETHASONE, BECLMETHASONE 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, 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</p> |

| Measure | Definition   |
|---------|--|
|         | <p>PROBUTATE, HYDROCORTISONE SOD PHOSPHATE, HYDROCORTISONE SOD SUCCINATE, HYDROCORTISONE SODIUM SUCCINATE/PF, HYDROCORTISONE VALERATE, HYDROCORTISONE/ALOE POLYSACCHARIDE/IODOQUINOL, HYDROCORTISONE/ALOE VERA, HYDROCORTISONE/ALOE VERA/VITAMINE ACETATE/VITAMINS A AND D, HYDROCORTISONE/BENZOCAINE/CHLOROXYLENOL, HYDROCORTISONE/COLLOIDAL OATMEAL/ALOE/VITAMINE, 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/DIOSMINI/ALOEPOLYSAC 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 B SULFATE/HYDROCORTISONE, PYRILAMINE/PHENIRAMINE/CHLORPHENIRAMINE/HYDROCORTISONE</p> |

Supplemental Table 2. Baseline characteristics in a cohort of women with UF aged 18-50 years with no prior diagnosis of cancer or hysterectomy, stratified by those with and without prevalent mental health

| Variable  | Without Prior<br>Mental Health | With Prior Mental<br>Health |
|---|--------------------------------|-----------------------------|
| N   | 313,754                        | 515,665                     |
| <b>Demographics</b>   |                                |                             |
| Age, mean (SD)  | 40.3 (6.5)                     | 40.76 (6.38)                |
| Race, n (%)   |                                |                             |
| White   | 168,479 (53.7%)                | 304,800 (59.1%)             |
| Asian   | 23,776 (7.6%)                  | 30,806 (6.0%)               |
| Black   | 74,601 (23.8%)                 | 106,608 (20.7%)             |
| Hispanic  | 46,898 (14.9%)                 | 73,451 (14.2%)              |
| Region of Residence, n (%)  |                                |                             |
| Northeast   | 41,689 (13.3%)                 | 64,872 (12.6%)              |
| Midwest   | 60,629 (19.3%)                 | 106,113 (20.6%)             |
| South   | 159,774 (50.9%)                | 258,036 (50.0%)             |
| West  | 51,662 (16.5%)                 | 86,644 (16.8%)              |
| <b>Encounter with a mental health<br/>provider</b>  | 12,073 (3.8%)                  | 73,948 (14.3%)              |
| <b>Mental Health Conditions, n (%)</b>  |                                |                             |
| Occurrence of depression, anxiety,<br>self-directed harm or use of anti-<br>depressants or anti-anxiety medications | 0 (0.0%)                       | 199,601 (38.7%)             |

|  |                 |                 |
|--|-----------------|-----------------|
| Occurrence of depression or use of anti-depressants      | 0 (0.0%)        | 140,386 (27.2%) |
| Occurrence of anxiety or use of anti-anxiety medications | 0 (0.0%)        | 174,230 (33.8%) |
| Occurrence of self-directed harm                         | 0 (0.0%)        | 1,744 (0.3%)    |
| <b>Symptoms, n (%)</b>                                   |                 |                 |
| Heavy Menstrual Bleeding                                 | 134,103 (42.7%) | 236,028 (45.8%) |
| Anemia or Blood Transfusion                              | 18,459 (5.9%)   | 32,019 (6.2%)   |
| Dysmenorrhea   | 36,067 (11.5%)  | 68,224 (13.2%)  |
| Dyspareunia  | 6,768 (2.2%)    | 14,023 (2.7%)   |
| Pelvic Pain  | 107,601 (34.3%) | 207,235 (40.2%) |
| <b>Medical Conditions, n (%)</b>                         |                 |                 |
| Pregnancy  | 44,055 (14.0%)  | 74,537 (14.5%)  |
| Live birth   | 21,174 (6.7%)   | 37,309 (7.2%)   |
| Infertility  | 70,172 (22.4%)  | 133,023 (25.8%) |
| Allergic Rhinitis  | 49,945 (15.9%)  | 107,283 (20.8%) |
| Asthma   | 22,044 (7.0%)   | 50,422 (9.8%)   |
| Irritable Bowel Syndrome                                 | 6,520 (2.1%)    | 20,086 (3.9%)   |
| Psoriasis  | 2,582 (0.8%)    | 5,975 (1.2%)    |
| Eczema   | 26,217 (8.4%)   | 58,314 (11.3%)  |
| Chronic Low Back Pain                                    | 57,187 (18.2%)  | 131,086 (25.4%) |
| Fatigue  | 63,534 (20.2%)  | 145,548 (28.2%) |
| Vitamin D Deficiency                                     | 12,289 (3.9%)   | 27,405 (5.3%)   |

|                                   |                 |                 |
|-----------------------------------|-----------------|-----------------|
| Chronic Headaches/Migraines       | 45,976 (14.7%)  | 114,533 (22.2%) |
| Thyroid Disease                   | 38,741 (12.3%)  | 80,086 (15.5%)  |
| Hypothyroidism                    | 31,080 (9.9%)   | 66,368 (12.9%)  |
| Diabetes Mellitus, Type II        | 17,018 (5.4%)   | 35,526 (6.9%)   |
| Hyperlipidemia                    | 57,158 (18.2%)  | 117,967 (22.9%) |
| Hypertension                      | 51,029 (16.3%)  | 106,336 (20.6%) |
| Fibromyalgia                      | 15,213 (4.8%)   | 44,091 (8.6%)   |
| <b>Medication Use, n (%)</b>      |                 |                 |
| Combined Hormonal Contraceptives  | 68,719 (21.9%)  | 130,001 (25.2%) |
| Oral Progestin                    | 9,262 (3.0%)    | 19,127 (3.7%)   |
| Depot Medroxyprogesterone Acetate | 18,356 (5.9%)   | 36,591 (7.1%)   |
| Intrauterine Device               | 21,921 (7.0%)   | 44,234 (8.6%)   |
| Non-Opioid Analgesics             | 85,557 (27.3%)  | 176,078 (34.1%) |
| Opioid Analgesic                  | 107,983 (34.4%) | 227,240 (44.1%) |
| Antihypertensives                 | 41,595 (13.3%)  | 100,761 (19.5%) |
| Statins                           | 11,546 (3.7%)   | 28,481 (5.5%)   |
| Corticosteroids                   | 89,124 (28.4%)  | 193,731 (37.6%) |
| Tranexamic Acid                   | 1,821 (0.6%)    | 3,533 (0.7%)    |
| <b>Prior Procedures, n (%)</b>    |                 |                 |
| Uterine Artery Embolization       | 36 (0.0%)       | 63 (0.0%)       |
| Myomectomy                        | 6,612 (2.1%)    | 10,537 (2.0%)   |

Supplemental Table 3. Diagnosing provider type for depression, anxiety and self-directed violence

|  | Depression   |              | Anxiety      |              | Self-directed Violence |            |
|--|--------------|--------------|--------------|--------------|------------------------|------------|
|  | Uterine      | No Uterine   | Uterine      | No Uterine   | Uterine                | No Uterine |
|  | Fibroids     | Fibroids     | Fibroids     | Fibroids     | Fibroids               | Fibroids   |
| N with outcome   | 26,167       | 46,094       | 33,991       | 60,672       | 509                    | 616        |
| Provider Type  |              |              |              |              |                        |            |
| Emergency<br>Medicine                                  | 390 (1%)     | 549 (1%)     | 1,408 (4%)   | 1,794 (3%)   | 80 (16%)               | 99 (16%)   |
| OBGYN  | 1,044 (4%)   | 1,407 (3%)   | 1,097 (3%)   | 1,702 (3%)   | 3 (<1%)                | 3 (<1%)    |
| Primary Care,<br>Internal Medicine,<br>Family Medicine | 10,541 (40%) | 19,932 (43%) | 14,794 (44%) | 27,759 (46%) | 39 (8%)                | 45 (7%)    |
| Psychologist,<br>Psychiatrist or<br>Counselor          | 6,546 (25%)  | 11,854 (26%) | 6,576 (19%)  | 12,779 (21%) | 12 (2%)                | 9 (1%)     |
| Social Worker  | 2,217 (8%)   | 4,261 (9%)   | 2,248 (7%)   | 4,603 (8%)   | 2 (<1%)                | 1 (<1%)    |

Supplemental Table 4. Association between uterine fibroids and incidence of adverse mental health outcomes, using alternative definitions of mental health outcomes

|   | Uterine Fibroids  | No Uterine Fibroids |
|---|-------------------|---------------------|
| N   | 313,754           | 627,539             |
| <b>Depression*</b>                              |                   |                     |
| N events  | 43,992            | 81,527              |
| Rate per 1,000 person-years                     | 52.5              | 55.4                |
| Age-matched HR (95% CI) <sup>†</sup>            | 1.06 (1.05, 1.07) | 1.0 (ref)           |
| Adjusted HR (95% CI) <sup>‡</sup>               | 1.07 (1.06, 1.08) | 1.0 (ref)           |
| <b>Anxiety*</b>                                 |                   |                     |
| N events  | 71,170            | 123,967             |
| Rate per 1,000 person-years                     | 100.0             | 86.6                |
| Age-matched HR (95% CI)                         | 1.15 (1.14, 1.17) | 1.0 (ref)           |
| Adjusted HR (95% CI) <sup>‡</sup>               | 1.14 (1.13, 1.15) | 1.0 (ref)           |
| <b>Self-Directed Violence: Suicide Ideation</b> |                   |                     |
| N events  | 421               | 518                 |
| Rate per 1,000 person-years                     | 0.5               | 0.3                 |
| Age-matched HR (95% CI)                         | 1.57 (1.38, 1.78) | 1.0 (ref)           |
| Adjusted HR (95% CI) <sup>‡</sup>               | 1.42 (1.25, 1.63) | 1.0 (ref)           |
| <b>Self-Directed Violence: Suicide Attempt</b>  |                   |                     |
| N events  | 136               | 152                 |
| Rate per 1,000 person-years                     | 0.15              | 0.08                |
| Age-matched HR (95% CI)                         | 1.74 (1.38, 2.19) | 1.0 (ref)           |
| Adjusted HR (95% CI) <sup>‡</sup>               | 1.66 (1.31, 2.10) | 1.0 (ref)           |

\* Abbreviations: CI, confidence interval; HR, hazard ratio

<sup>†</sup> Depression defined as presence of ICD diagnosis code OR prescription fill of anti-depressant medication and anxiety defined as presence of ICD diagnosis code OR prescription fill of anti-anxiety medication

<sup>‡</sup>HR adjusted for race, region of residence, allergic rhinitis, asthma, IBS, eczema, chronic low back pain, fatigue, vitamin D deficiency, chronic headaches/migraines, thyroid disease, hypothyroidism, diabetes

mellitus type 2, hyperlipidemia, hypertension, fibromyalgia, live birth, and use of antihypertensives, corticosteroids, non-opioid analgesics, opioid analgesic, combined hormonal contraceptives, statins, antihypertensives, oral progestin, depot medroxyprogesterone acetate (DMPA), or progestogen-releasing intrauterine system (IUD).



Supplemental Table 5. Association between uterine fibroids and incidence of adverse mental health outcomes, alternative definition of uterine fibroids

|  | Depression        |           | Anxiety           |           | Self-Directed Violence |           |
|--|-------------------|-----------|-------------------|-----------|------------------------|-----------|
|  | UF                | No UF     | UF                | No UF     | UF                     | No UF     |
| <b>Women with image confirmed UF</b>                                     |                   |           |                   |           |                        |           |
| N  | 274,054           | 547,936   | 274,054           | 547,936   | 274,054                | 547,936   |
| Events, N  | 22,775            | 40,070    | 29,897            | 53,394    | 455                    | 550       |
| Rate per 1,000 person-years  | 30.5              | 27.4      | 41.0              | 37.3      | 0.6                    | 0.4       |
| Adjusted HR (95% CI)*  | 1.11 (1.10, 1.13) | 1.0 (ref) | 1.11 (1.10, 1.13) | 1.0 (ref) | 1.44 (1.27, 1.64)      | 1.0 (ref) |
| <b>Women with UF, no prior myomectomy or uterine artery embolization</b> |                   |           |                   |           |                        |           |
| N  | 307,561           | 615,246   | 310,864           | 622,155   | 310,864                | 622,155   |
| Events, N  | 25,683            | 45,429    | 33,354            | 59,578    | 491                    | 630       |
| Rate per 1,000 person-years  | 30.9              | 28.0      | 40.9              | 37.3      | 0.5                    | 0.4       |
| Adjusted HR (95% CI)*  | 1.11 (1.10, 1.13) | 1.0 (ref) | 1.11 (1.10, 1.13) | 1.0 (ref) | 1.35 (1.20, 1.53)      | 1.0 (ref) |

\*Abbreviations: CI, confidence interval; HR, hazard ratio; HR adjusted for race, region of residence, allergic rhinitis, asthma, IBS, eczema, chronic low back pain, fatigue, vitamin D deficiency, chronic headaches/migraines, thyroid disease, hypothyroidism, diabetes mellitus type 2, hyperlipidemia, hypertension, fibromyalgia, live birth, and use of antihypertensives, corticosteroids, non-opioid analgesics, opioid analgesic, combined hormonal contraceptives, statins, oral progestin, depot medroxyprogesterone acetate (DMPA), or progestogen-releasing intrauterine system (IUD).

Supplemental Table 6. Association between uterine fibroids and incidence of adverse mental health outcomes, stratified by age

|                             | Depression        |                     | Anxiety           |                     | Self-Directed Violence |                     |
|-----------------------------|-------------------|---------------------|-------------------|---------------------|------------------------|---------------------|
|                             | Uterine Fibroids  | No Uterine Fibroids | Uterine Fibroids  | No Uterine Fibroids | Uterine Fibroids       | No Uterine Fibroids |
| <b>Age &lt;30</b>           |                   |                     |                   |                     |                        |                     |
| N                           | 21,272            | 38,667              | 21,272            | 38,667              | 21,272                 | 38,667              |
| Events, N                   | 1,751             | 2,828               | 2,169             | 3,960               | 44                     | 48                  |
| Rate per 1,000 person-years | 39.1              | 33.7                | 49.3              | 48.3                | 0.9                    | 0.5                 |
| Age-matched HR (95% CI)*    | 1.16 (1.09, 1.23) | 1.0 (ref)           | 1.02 (0.97, 1.07) | 1.0 (ref)           | 1.71 (1.14, 2.57)      | 1.0 (ref)           |
| Adjusted HR (95% CI) †      | 1.17 (1.10, 1.24) | 1.0 (ref)           | 1.05 (1.00, 1.11) | 1.0 (ref)           | 1.47 (0.96, 2.27)      | 1.0 (ref)           |
| <b>Age 30-39</b>            |                   |                     |                   |                     |                        |                     |
| N                           | 107,845           | 207,887             | 107,845           | 207,887             | 107,845                | 207,887             |
| Events, N                   | 9,263             | 16,076              | 11,893            | 21,495              | 197                    | 221                 |
| Rate per 1,000 person-years | 34.3              | 30.4                | 45.0              | 41.6                | 0.7                    | 0.4                 |
| Age-matched HR (95% CI)     | 1.13 (1.10, 1.16) | 1.0 (ref)           | 1.08 (1.06, 1.11) | 1.0 (ref)           | 1.73 (1.43, 2.09)      | 1.0 (ref)           |
| Adjusted HR (95% CI) †      | 1.11 (1.08, 1.14) | 1.0 (ref)           | 1.09 (1.07, 1.12) | 1.0 (ref)           | 1.48 (1.21, 1.81)      | 1.0 (ref)           |
| <b>Age ≥40</b>              |                   |                     |                   |                     |                        |                     |
| N                           | 184,637           | 380,985             | 184,637           | 380,985             | 184,637                | 380,985             |
| Events, N                   | 15,157            | 27,199              | 19,941            | 35,228              | 268                    | 347                 |
| Rate per 1,000 person-years | 28.5              | 26.1                | 38.3              | 34.3                | 0.5                    | 0.3                 |
| Age-matched HR (95% CI)     | 1.10 (1.08, 1.13) | 1.0 (ref)           | 1.12 (1.10, 1.14) | 1.0 (ref)           | 1.50 (1.28, 1.76)      | 1.0 (ref)           |
| Adjusted HR (95% CI) †      | 1.11 (1.08, 1.13) | 1.0 (ref)           | 1.13 (1.11, 1.15) | 1.0 (ref)           | 1.39 (1.18, 1.64)      | 1.0 (ref)           |

\*Abbreviations: CI, confidence interval; HR, hazard ratio

†HR adjusted for race, region of residence, allergic rhinitis, asthma, IBS, eczema, chronic low back pain, fatigue, vitamin D deficiency, chronic headaches/migraines, thyroid disease, hypothyroidism, diabetes mellitus type 2, hyperlipidemia, hypertension, fibromyalgia, live birth, and use of antihypertensives, corticosteroids, non-opioid analgesics, opioid analgesic, combined hormonal contraceptives, statins, oral progestin, depot medroxyprogesterone acetate (DMPA), or progestogen-releasing intrauterine system (IUD).

Supplemental Table 7. Association between uterine fibroids and incidence of adverse mental health outcomes, stratified by decade of cohort entry

|   | Depression        |                     | Anxiety           |                     | Self-Directed Violence |                     |
|---|-------------------|---------------------|-------------------|---------------------|------------------------|---------------------|
|   | Uterine Fibroids  | No Uterine Fibroids | Uterine Fibroids  | No Uterine Fibroids | Uterine Fibroids       | No Uterine Fibroids |
| <b>May 1, 2000-December 1, 2010-</b>    |                   |                     |                   |                     |                        |                     |
| N                                       | 181,031           | 358,777             | 181,031           | 358,777             | 181,031                | 358,777             |
| Events, N                               | 18,702            | 33,894              | 20,962            | 37,446              | 297                    | 371                 |
| Rate per 1,000 person-years             | 32.2              | 30.7                | 36.6              | 34.2                | 0.5                    | 0.3                 |
| Age-matched HR (95% CI)*                | 1.05 (1.03, 1.07) | 1.0 (ref)           | 1.07 (1.05, 1.09) | 1.0 (ref)           | 1.36 (1.17, 1.58)      | 1.0 (ref)           |
| Adjusted HR (95% CI) †                  | 1.07 (1.05, 1.09) | 1.0 (ref)           | 1.09 (1.07, 1.11) | 1.0 (ref)           | 1.26 (1.08, 1.47)      | 1.0 (ref)           |
| <b>January 1, 2011 – March 31, 2020</b> |                   |                     |                   |                     |                        |                     |
| N                                       | 132,723           | 268,762             | 132,723           | 268,762             | 132,723                | 268,762             |
| Events, N                               | 7,469             | 12,209              | 13,041            | 23,237              | 212                    | 245                 |
| Rate per 1,000 person-years             | 28.1              | 22.2                | 50.8              | 43.6                | 0.8                    | 0.4                 |
| Age-matched HR (95% CI)                 | 1.26 (1.22, 1.30) | 1.0 (ref)           | 1.16 (1.13, 1.18) | 1.0 (ref)           | 1.79 (1.48, 2.16)      | 1.0 (ref)           |
| Adjusted HR (95% CI) †                  | 1.23 (1.19, 1.26) | 1.0 (ref)           | 1.17 (1.14, 1.19) | 1.0 (ref)           | 1.52 (1.25, 1.85)      | 1.0 (ref)           |

\*Abbreviations: CI, confidence interval; HR, hazard ratio

†HR adjusted for race, region of residence, allergic rhinitis, asthma, IBS, eczema, chronic low back pain, fatigue, vitamin D deficiency, chronic headaches/migraines, thyroid disease, hypothyroidism, diabetes mellitus type 2, hyperlipidemia, hypertension, fibromyalgia, live birth, and use of antihypertensives, corticosteroids, non-opioid analgesics, opioid analgesic, combined hormonal contraceptives, statins, oral progestin, depot medroxyprogesterone acetate (DMPA), or progestogen-releasing intrauterine system (IUD).