

Disclaimer

The following report(s) provides findings from an FDA-initiated query using its Mini-Sentinel pilot. While Mini-Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Mini-Sentinel, and seeking to better understand the capabilities of the Mini-Sentinel pilot.

Data obtained through Mini-Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from the Mini-Sentinel pilot in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Mini-Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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Overview for Request ID msy4_mpr44_v2 - Report 3 of 3

Request ID: msy4_mpr44_v2 - Report 3 of 3

<u>Request Description</u>: This report investigates prevalent use of robotic-assisted procedures. In addition, this request analyzed use of laparoscopic robotic assistance for several specified primary procedures. Report 3 presents results for use of robotic-assisted codes with specified primary procedures. Report 1 presents results for the robotic-assisted procedures codes only. Report 2 also presents results for use of robotic-assisted codes with specified primary procedures.

Modular Program Tool Used: Modular Program #9 (MP9)

Data Source: Data from October 1, 2008 to December 31, 2012 from 18 Data Partners contributing to the Mini-Sentinel Distributed Database (MSDD) were included in this report. This request was distributed to Data Partners on July 29, 2013. See Appendix A for a list of dates of available data for each Data Partner.

Study Design: This request was designed to provide counts of prevalent unique patients with robotic-assisted procedures, eligible members, and member-years. In addition, this request analyzed use of laparoscopic robotic assistance for several specified primary procedures. Fifteen scenarios were examined in this report with differing exposures of interest and inclusion criteria: (1) Supracervical abdominal hysterectomy-open, (2) Supracervical abdominal hysterectomy-laparoscopic, (3) Supracervical abdominal hysterectomy-open or laparoscopic, (4) Total abdominal hysterectomy-open, (5) Total abdominal hysterectomy-laparoscopic, (6) Total abdominal hysterectomy - open or laparoscopic, (9) Radical abdominal hysterectomy - open or laparoscopic, (10) Vaginal hysterectomy - open, (11) Vaginal hysterectomy - laparoscopic, (12) Vaginal hysterectomy-open or laparoscopic, (13) Repair of cystocele and rectocele-open, (14) Repair of cystocele and rectocele-laparoscopic, and (15) Repair of cystocele and rectocele-open or laparoscopic.

<u>Cohort Eligibility Criteria</u>: Patients were allowed gaps in coverage of up to 45 days. The following age groups were included in the cohort: 0-40, 41-54, 55-64, 64-74, 75-84, and 85+ years. See Appendix C for the specifications for this request.

Limitation: Algorithms to define exposures are imperfect and, therefore, they may be misclassified.

Notes: Please contact the Sentinel Operations Center (info@sentinelsystem.org) for questions and to provide comments/suggestions for future enhancements to this document.



| | Overview of Request ID MSY4_MPR44_V2, Report 3 of 3, Version 2, Report 3 of 3 |
|-------------------|--|
| <u>Glossary</u> | Glossary of Terms in Modular Program 9 |
| <u>Table 1</u> | Summary of Prevalent Robotic-Assisted Procedure Codes between October 1, 2008 and December 31, 2012, by Associated Primary Procedure |
| <u>Table 2</u> | Summary of Prevalent Robotic-Assisted Procedure Codes between October 1, 2008 and December 31, 2012, by Associated Primary Procedure and Age Group |
| <u>Table 3</u> | Summary of Prevalent Robotic-Assisted Procedure Codes between October 1, 2008 and December 31, 2012, by Associated Primary Procedure and Sex |
| <u>Table 4</u> | Summary of Prevalent Robotic-Assisted Procedure Codes between October 1, 2008 and December 31, 2012, by Associated Primary Procedure and Year |
| <u>Appendix A</u> | Available Data in the Mini-Sentinel Distributed Database (MSDD) for Each Data Partner as of Request Distribution Date (July 29, 2013) |
| <u>Appendix B</u> | Descriptions of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), and Current Procedural Terminology, Fourth Edition (CPT-4) Primary Procedure Codes (Inclusion) |
| <u>Appendix C</u> | MSY4_MPR44_V1 Specifications |



Glossary of Terms in Modular Program 9*

Amount Supplied - Number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing. This is equivalent to the "RxAmt" value in the Mini-Sentinel Common Data Model (MSCDM).

Care Setting - Contains the care settings considered for the individual diagnosis or procedure codes of interest. The following are valid entries:

IP: inpatient hospital stays

IS: non-acute institutional stays

ED: emergency department visits

AV: ambulatory visits

OA: other ambulatory visits.

Days Supplied - Number of days supplied for <u>all dispensings</u> encountered by individuals in the prevalent or incident cohort. The number is reported by the pharmacist as the number of days that the medications supports, based on the number of doses. (To be included in the incident-based cohort, a member must have a dispensing that meets the criteria specified for incidence type and washout period. However, if a member has more than one dispensings claim on the index date, all claims identified on that date will be included in the number of dispensings. Claims identified any time after the index date are not included in dispensings.)

Dispensings - Total number of dispensings for members included in the prevalent- or incident-based cohort. To be included in the incident-based cohort, a member must have a dispensing that meets the criteria specified for incidence type and washout period. However, if a member has more than one dispensings claim on the index date, all claims identified on that date will be included in the number of dispensings. Claims identified any time after the index date are not included in dispensings.

Eligible Members (incidence-based cohort) - Number of members eligible for incident diagnosis (defined by the washout period) with drug and/or medical coverage during the query period.

Eligible Members (prevalence-based cohort) - Number of members with at least one day of drug and/or medical coverage during the query period.

Enrollment Gap - Number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

Exposure - NDC and/or procedure and/or diagnosis code values for the exposure(s) of interest.

Incidence Type (incidence-based cohort) - *Minimum incidence type* will only consider the first claim in the query period as long as it is the first claim in the user's entire available history. *Single incidence type* will consider the first claim in the query period that satisfies the washout period criteria. That is, incidence is defined as the first claim during the query period with no evidence of a prior claim during the previous washout period days. *Multiple incidence type* will use the washout period to establish incidence and consider all qualifying incident claims.

"Incident with Respect to" Codes - NDC and/or procedure and/or diagnosis codes to be used to refine the incident definition for the exposure(s) of interest. For example, if a requester is examining exposure to DRUG A but wants incidence of DRUG A to be defined with respect to DRUG A and DRUG B, the Incident with Respect to Code fields would include both DRUG A and DRUG B codes.

Incident Only Care Setting - Contains the care settings considered for the individual diagnosis or procedure codes included as "Incident with Respect to" codes.

Member-Years (incidence-based cohort) - Sum of all years of enrollment with drug and/or medical coverage in the query period preceded by a washout period.

Member-Years (prevalence-based cohort) - Sum of all years members are enrolled with drug and/or medical coverage during the query period.

New Starts- Number of incident dispensings during the query period. Patient must have no prior dispensings of interest in the washout period. For a single and minimum incidence type, an individual may have no more than one new start. For a multiple incidence type, an individual may have more than one new start.

New Users - Number of members with incident claims during the query period. Member must have no evidence of claims of interest (defined by incidence criteria) in the prior washout period. A patient may only be counted once in a query period.



Query Period - Period in which the modular program looks for diagnoses of interest.

Washout Period (incidence-based cohort) - Number of days a patient is required to have no evidence of prior claim of interest and continuous drug and/or medical coverage.

*all terms may not be used in this report



| | Number of Unique Patients | Number of Laparoscopic | | Laparoscopic Robotic- | |
|-----------------------------------|---|--------------------------------|---|--|---------------------------|
| Primary Procedure | with Laparoscopic Robotic- Assisted Procedures | Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Assisted Patients per 1000 Primary Procedure Patients | Procedures per Patient |
| Supracervical hysterectomy | | | | - | |
| Open or Laparoscopic | 2,123 | 2,270 | 62,476 | 34.0 | 1.1 |
| Laparoscopic | 2,089 | 2,235 | 44,068 | 47.4 | 1.1 |
| Open | 130 | 137 | 20,522 | 6.3 | 1.1 |
| Total abdominal hysterectomy | | | | | |
| Open or Laparoscopic | 15,756 | 17,112 | 207,509 | 75.9 | 1.1 |
| Laparoscopic | 15,527 | 16,881 | 88,291 | 175.9 | 1.1 |
| Open | 565 | 578 | 122,389 | 4.6 | 1.0 |
| Radical abdominal hysterectomy | | | | | |
| Open or Laparoscopic | 1,894 | 1,982 | 10,786 | 175.6 | 1.0 |
| Laparoscopic | 1,863 | 1,949 | 5,941 | 313.6 | 1.0 |
| Open | 42 | 44 | 4,928 | 8.5 | 1.0 |
| Vaginal hysterectomy | | | | | |
| Open or Laparoscopic | 9,455 | 10,379 | 166,689 | 56.7 | 1.1 |
| Laparoscopic | 9,363 | 10,286 | 106,154 | 88.2 | 1.1 |
| Open | 188 | 194 | 63,703 | 3.0 | 1.0 |
| Repair of cystocele and rectocele | | | · | | |
| Open or Laparoscopic | 891 | 955 | 87,814 | 10.1 | 1.1 |
| Laparoscopic | 44 | 47 | 598 | 73.6 | 1.1 |
| Open | 877 | 939 | 87,623 | 10.0 | 1.1 |



| | Number of Unique | | Laparoscopic Robotic- | | | |
|----------------------------|---|-------------------------|-----------------------|----------------------------|----------------|--|
| | Patients with Laparoscopic Number of Laparoscop | | Number of Unique | Assisted Patients per 1000 | | |
| | Robotic-Assisted | Robotic-Assisted | Patients with Primary | Primary Procedure | Procedures per | |
| Primary Procedure | Procedures | Procedures | Procedure | Patients | Patient | |
| Supracervical hysterectomy | | | | | | |

| | Robotic-Assisted | Robotic-Assisted | Patients with Primary | Primary Procedure | Procedures pe | |
|----------------------------|------------------|------------------|-----------------------|-------------------|---------------|--|
| imary Procedure | Procedures | Procedures | Procedure | Patients | Patient | |
| pracervical hysterectomy | | | | | | |
| Open or Laparoscopic | | | | | | |
| 0 to 40 years | 368 | 393 | 16,601 | 22.2 | 1.1 | |
| 41 to 54 years | 1,286 | 1,377 | 39,704 | 32.4 | 1.1 | |
| 55 to 64 years | 298 | 322 | 4,392 | 67.9 | 1.1 | |
| 65 to 74 years | 138 | 143 | 1,358 | 101.6 | 1.0 | |
| 75 to 84 years | 26 | 27 | 394 | 66.0 | 1.0 | |
| 85+ years | 8 | 8 | 59 | 135.6 | 1.0 | |
| Laparoscopic | | | | | | |
| 0 to 40 years | 359 | 384 | 12,209 | 29.4 | 1.1 | |
| 41 to 54 years | 1,265 | 1,355 | 27,974 | 45.2 | 1.1 | |
| 55 to 64 years | 297 | 321 | 2,973 | 99.9 | 1.1 | |
| 65 to 74 years | 135 | 140 | 766 | 176.2 | 1.0 | |
| 75 to 84 years | 26 | 27 | 154 | 168.8 | 1.0 | |
| 85+ years | 8 | 8 | 15 | 533.3 | 1.0 | |
| Open | | | | | | |
| 0 to 40 years | 24 | 24 | 4,919 | 4.9 | 1.0 | |
| 41 to 54 years | 85 | 89 | 13,093 | 6.5 | 1.0 | |
| 55 to 64 years | 12 | 15 | 1,590 | 7.5 | 1.3 | |
| 65 to 74 years | 8 | 8 | 637 | 12.6 | 1.0 | |
| 75 to 84 years | 0 | 0 | 246 | 0.0 | | |
| 85+ years | 1 | 1 | 46 | 21.7 | 1.0 | |
| tal abdominal hysterectomy | | | | | | |
| Open or Laparoscopic | | | | | | |
| 0 to 40 years | 3,427 | 3,788 | 54,156 | 63.3 | 1.1 | |
| 41 to 54 years | 8,011 | 8,758 | 113,040 | 70.9 | 1.1 | |
| 55 to 64 years | 2,426 | 2,615 | 25,321 | 95.8 | 1.1 | |
| 65 to 74 years | 1,324 | 1,364 | 10,506 | 126.0 | 1.0 | |
| 75 to 84 years | 494 | 502 | 3,876 | 127.5 | 1.0 | |
| 85+ years | 76 | 85 | 708 | 107.3 | 1.1 | |



| mary Procedure | | Number of Unique Patients with Laparoscopic Robotic-Assisted Procedures | Number of Laparoscopic Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure Patients | Procedures pe Patient |
|---------------------|-------------|--|--|--|--|--------------------------|
| Laparoscopic | | | | | | |
| 0 t | o 40 years | 3,387 | 3,747 | 25,291 | 133.9 | 1.1 |
| 41 | to 54 years | 7,906 | 8,652 | 46,495 | 170.0 | 1.1 |
| 55 | to 64 years | 2,385 | 2,574 | 10,907 | 218.7 | 1.1 |
| 65 | to 74 years | 1,295 | 1,335 | 4,121 | 314.2 | 1.0 |
| 75 | to 84 years | 481 | 489 | 1,302 | 369.4 | 1.0 |
| 85 | + years | 75 | 84 | 223 | 336.3 | 1.1 |
| Open | | | | | | |
| 0 t | o 40 years | 114 | 116 | 29,545 | 3.9 | 1.0 |
| 41 | to 54 years | 269 | 278 | 68,274 | 3.9 | 1.0 |
| 55 | to 64 years | 99 | 101 | 14,911 | 6.6 | 1.0 |
| 65 | to 74 years | 62 | 62 | 6,569 | 9.4 | 1.0 |
| 75 | to 84 years | 19 | 19 | 2,645 | 7.2 | 1.0 |
| 85 | + years | 2 | 2 | 492 | 4.1 | 1.0 |
| dical abdominal hys | terectomy | | | | | |
| Open or Laparoso | opic | | | | | |
| 0 t | o 40 years | 271 | 284 | 1,470 | 184.4 | 1.0 |
| 41 | to 54 years | 618 | 656 | 3,522 | 175.5 | 1.1 |
| 55 | to 64 years | 466 | 494 | 3,278 | 142.2 | 1.1 |
| 65 | to 74 years | 356 | 360 | 1,704 | 208.9 | 1.0 |
| 75 | to 84 years | 159 | 164 | 693 | 229.4 | 1.0 |
| 85 | + years | 24 | 24 | 124 | 193.5 | 1.0 |
| Laparoscopic | | | | | | |
| 0 t | o 40 years | 269 | 282 | 833 | 322.9 | 1.0 |
| 41 | to 54 years | 613 | 651 | 2,000 | 306.5 | 1.1 |
| 55 | to 64 years | 456 | 482 | 1,838 | 248.1 | 1.1 |
| 65 | to 74 years | 346 | 350 | 875 | 395.4 | 1.0 |
| 75 | to 84 years | 156 | 161 | 345 | 452.2 | 1.0 |
| 85 | + years | 23 | 23 | 53 | 434.0 | 1.0 |

Open



| rimary Procedure | Number of Unique Patients with Laparoscopic Robotic-Assisted Procedures | Number of Laparoscopic Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure Patients | Procedures per Patient |
|----------------------|--|--|--|--|---------------------------|
| 0 to 40 years | 6 | 6 | 653 | 9.2 | 1.0 |
| 41 to 54 years | 8 | 8 | 1,561 | 5.1 | 1.0 |
| 55 to 64 years | 12 | 14 | 1,459 | 8.2 | 1.2 |
| 65 to 74 years | 10 | 10 | 833 | 12.0 | 1.0 |
| 75 to 84 years | 4 | 4 | 353 | 11.3 | 1.0 |
| 85+ years | 2 | 2 | 72 | 27.8 | 1.0 |
| aginal hysterectomy | | | | | |
| Open or Laparoscopic | | | | | |
| 0 to 40 years | 2,546 | 2,846 | 53,881 | 47.3 | 1.1 |
| 41 to 54 years | 4,523 | 5,018 | 79,944 | 56.6 | 1.1 |
| 55 to 64 years | 1,329 | 1,425 | 20,099 | 66.1 | 1.1 |
| 65 to 74 years | 736 | 759 | 9,466 | 77.8 | 1.0 |
| 75 to 84 years | 279 | 285 | 3,018 | 92.4 | 1.0 |
| 85+ years | 43 | 46 | 359 | 119.8 | 1.1 |
| Laparoscopic | | | | | |
| 0 to 40 years | 2,525 | 2,825 | 37,324 | 67.7 | 1.1 |
| 41 to 54 years | 4,479 | 4,974 | 52,721 | 85.0 | 1.1 |
| 55 to 64 years | 1,316 | 1,412 | 11,121 | 118.3 | 1.1 |
| 65 to 74 years | 723 | 745 | 3,842 | 188.2 | 1.0 |
| 75 to 84 years | 278 | 284 | 1,051 | 264.5 | 1.0 |
| 85+ years | 43 | 46 | 149 | 288.6 | 1.1 |
| Open | | | | | |
| 0 to 40 years | 46 | 49 | 17,510 | 2.6 | 1.1 |
| 41 to 54 years | 86 | 86 | 28,780 | 3.0 | 1.0 |
| 55 to 64 years | 30 | 30 | 9,390 | 3.2 | 1.0 |
| 65 to 74 years | 21 | 24 | 5,809 | 3.6 | 1.1 |
| 75 to 84 years | 4 | 4 | 2,021 | 2.0 | 1.0 |
| 85+ years | 1 | 1 | 217 | 4.6 | 1.0 |



| | | Number of Unique Patients with Laparoscopic Robotic-Assisted | Number of Laparoscopic Robotic-Assisted | Number of Unique Patients with Primary | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure | Procedures per |
|----------------|--------------------|--|--|---|--|----------------|
| Primary Proced | | Procedures | Procedures | Procedure | Patients | Patient |
| | cele and rectocele | | | | | |
| Open or L | aparoscopic | 100 | 114 | 10 754 | 0.2 | 1 1 |
| | 0 to 40 years | 100 | 114 | 10,754 | 9.3 | 1.1 |
| | 41 to 54 years | 321 | 346 | 30,368 | 10.6 | 1.1 |
| | 55 to 64 years | 238 | 257 | 23,393 | 10.2 | 1.1 |
| | 65 to 74 years | 182 | 186 | 16,369 | 11.1 | 1.0 |
| | 75 to 84 years | 48 | 50 | 6,369 | 7.5 | 1.0 |
| | 85+ years | 2 | 2 | 785 | 2.5 | 1.0 |
| Laparosco | pic | | | | | |
| | 0 to 40 years | 2 | 2 | 92 | 21.7 | 1.0 |
| | 41 to 54 years | 10 | 10 | 213 | 46.9 | 1.0 |
| | 55 to 64 years | 16 | 18 | 191 | 83.8 | 1.1 |
| | 65 to 74 years | 11 | 12 | 80 | 137.5 | 1.1 |
| | 75 to 84 years | 5 | 5 | 19 | 263.2 | 1.0 |
| | 85+ years | 0 | 0 | 3 | 0.0 | |
| Open | | | | | | |
| · | 0 to 40 years | 98 | 112 | 10,717 | 9.1 | 1.1 |
| | 41 to 54 years | 318 | 343 | 30,308 | 10.5 | 1.1 |
| | 55 to 64 years | 232 | 249 | 23,332 | 9.9 | 1.1 |
| | 65 to 74 years | 180 | 184 | 16,341 | 11.0 | 1.0 |
| | 75 to 84 years | 47 | 49 | 6,362 | 7.4 | 1.0 |
| | 85+ years | 2 | 2 | 783 | 2.6 | 1.0 |



| | Number of Unique Patients with Laparoscopic Robotic- | Number of Laparoscopic | Number of Unique Patients | Laparoscopic Robotic- Assisted Patients per 1000 | Procedures pe |
|----------------------------|---|-----------------------------|---------------------------|---|---------------|
| rimary Procedure | Assisted Procedures | Robotic-Assisted Procedures | with Primary Procedure | Primary Procedure Patients | Patient |
| upracervical hysterectomy | | | | | |
| Open or Laparoscopic | | | | | |
| Female | 2,121 | 2,268 | 62,300 | 34.0 | 1.1 |
| Male | 2 | 2 | 174 | 11.5 | 1.0 |
| Unknown | 0 | 0 | 2 | 0.0 | |
| Laparoscopic | | | | | |
| Female | 2,087 | 2,233 | 43,982 | 47.5 | 1.1 |
| Male | 2 | 2 | 85 | 23.5 | 1.0 |
| Unknown | 0 | 0 | 1 | 0.0 | |
| Open | | | | | |
| Female | 130 | 137 | 20,428 | 6.4 | 1.1 |
| Male | 0 | 0 | 93 | 0.0 | |
| Unknown | 0 | 0 | 1 | 0.0 | |
| otal abdominal hysterecton | ny | | | | |
| Open or Laparoscopic | | | | | |
| Female | 15,707 | 17,059 | 206,656 | 76.0 | 1.1 |
| Male | 46 | 50 | 845 | 54.4 | 1.1 |
| Unknown | 3 | 3 | 8 | 375.0 | 1.0 |
| Laparoscopic | | | | | |
| Female | 15,479 | 16,829 | 88,010 | 175.9 | 1.1 |
| Male | 45 | 49 | 275 | 163.6 | 1.1 |
| Unknown | 3 | 3 | 6 | 500.0 | 1.0 |
| Open | | | | | |
| Female | 563 | 576 | 121,811 | 4.6 | 1.0 |
| Male | 1 | 1 | 575 | 1.7 | 1.0 |
| Unknown | 1 | 1 | 3 | 333.3 | 1.0 |



| rimary Procedure | Number of Unique Patients with Laparoscopic Robotic- Assisted Procedures | Number of Laparoscopic Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure Patients | Procedures pe Patient |
|----------------------------|--|---|---|---|--------------------------|
| adical abdominal hysterect | omy | | | | |
| Open or Laparoscopic | | | | | |
| Female | 1,889 | 1,977 | 10,763 | 175.5 | 1.0 |
| Male | 5 | 5 | 23 | 217.4 | 1.0 |
| Unknown | 0 | 0 | 0 | | |
| Laparoscopic | | | | | |
| Female | 1,859 | 1,945 | 5,927 | 313.6 | 1.0 |
| Male | 4 | 4 | 14 | 285.7 | 1.0 |
| Unknown | 0 | 0 | 0 | | |
| Open | | | | | |
| Female | 41 | 43 | 4,919 | 8.3 | 1.0 |
| Male | 1 | 1 | 9 | 111.1 | 1.0 |
| Unknown | 0 | 0 | 0 | | |
| aginal hysterectomy | | | | | |
| Open or Laparoscopic | | | | | |
| Female | 9,423 | 10,345 | 166,163 | 56.7 | 1.1 |
| Male | 31 | 33 | 521 | 59.5 | 1.1 |
| Unknown | 1 | 1 | 5 | 200.0 | 1.0 |
| Laparoscopic | | | | | |
| Female | 9,331 | 10,252 | 105,873 | 88.1 | 1.1 |
| Male | 31 | 33 | 278 | 111.5 | 1.1 |
| Unknown | 1 | 1 | 3 | 333.3 | 1.0 |
| Open | | | | | |
| Female | 186 | 192 | 63,453 | 2.9 | 1.0 |
| Male | 2 | 2 | 248 | 8.1 | 1.0 |
| Unknown | 0 | 0 | 2 | 0.0 | |



| | Number of Unique Patients with Laparoscopic Robotic- | Number of Laparoscopic | Number of Unique Patients | Laparoscopic Robotic- Assisted Patients per 1000 | Procedures per |
|-------------------------------|---|-----------------------------|---------------------------|---|----------------|
| Primary Procedure | Assisted Procedures | Robotic-Assisted Procedures | with Primary Procedure | Primary Procedure Patients | Patient |
| Repair of cystocele and recto | cele | | | | |
| Open or Laparoscopic | | | | | |
| Female | 884 | 948 | 87,316 | 10.1 | 1.1 |
| Male | 7 | 7 | 498 | 14.1 | 1.0 |
| Unknown | 0 | 0 | 0 | | |
| Laparoscopic | | | | | |
| Female | 44 | 47 | 598 | 73.6 | 1.1 |
| Male | 0 | 0 | 0 | | |
| Unknown | 0 | 0 | 0 | | |
| Open | | | | | |
| Female | 870 | 932 | 87,125 | 10.0 | 1.1 |
| Male | 7 | 7 | 498 | 14.1 | 1.0 |
| Unknown | 0 | 0 | 0 | | |



| Primary Procedure | Number of Unique Patients with Laparoscopic Robotic- Assisted Px | Number of Laparoscopic Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure Patients | Procedures per Patient |
|------------------------------------|--|--|---|---|---------------------------|
| Supracervical hysterectomy | | | | | |
| Open or Laparoscopic | | | | | |
| 2008 | 81 | 85 | 4,614 | 17.6 | 1.0 |
| 2009 | 430 | 454 | 16,651 | 25.8 | 1.1 |
| 2010 | 556 | 599 | 15,565 | 35.7 | 1.1 |
| 2011 | 627 | 677 | 14,535 | 43.1 | 1.1 |
| 2012 | 431 | 455 | 11,235 | 38.4 | 1.1 |
| Laparoscopic | | | | | |
| 2008 | 81 | 85 | 3,072 | 26.4 | 1.0 |
| 2009 | 423 | 447 | 11,077 | 38.2 | 1.1 |
| 2010 | 548 | 591 | 10,883 | 50.4 | 1.1 |
| 2011 | 619 | 669 | 10,642 | 58.2 | 1.1 |
| 2012 | 420 | 443 | 8,478 | 49.5 | 1.1 |
| Open | | | | | |
| 2008 | 2 | 2 | 1,703 | 1.2 | 1.0 |
| 2009 | 29 | 32 | 6,161 | 4.7 | 1.1 |
| 2010 | 32 | 34 | 5,174 | 6.2 | 1.1 |
| 2011 | 34 | 35 | 4,387 | 7.8 | 1.0 |
| 2012 | 33 | 34 | 3,133 | 10.5 | 1.0 |
| Total abdominal hysterectom | У | | | | |
| Open or Laparoscopic | | | | | |
| 2008 | 484 | 515 | 13,877 | 34.9 | 1.1 |
| 2009 | 2,897 | 3,143 | 53,183 | 54.5 | 1.1 |
| 2010 | 4,164 | 4,563 | 50,538 | 82.4 | 1.1 |
| 2011 | 4,774 | 5,273 | 48,987 | 97.5 | 1.1 |
| 2012 | 3,462 | 3,618 | 41,488 | 83.4 | 1.0 |



| Primary Procedure | Number of Unique Patients with Laparoscopic Robotic- Assisted Px | Number of Laparoscopic Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure Patients | Procedures per Patient |
|-----------------------------|--|--|---|---|---------------------------|
| Laparoscopic | | | | | |
| 2008 | 474 | 505 | 3,030 | 156.4 | 1.1 |
| 2009 | 2,848 | 3,093 | 15,278 | 186.4 | 1.1 |
| 2010 | 4,110 | 4,509 | 20,017 | 205.3 | 1.1 |
| 2011 | 4,718 | 5,216 | 24,963 | 189.0 | 1.1 |
| 2012 | 3,402 | 3,558 | 25,215 | 134.9 | 1.0 |
| Open | | | | | |
| 2008 | 30 | 30 | 10,991 | 2.7 | 1.0 |
| 2009 | 134 | 136 | 38,627 | 3.5 | 1.0 |
| 2010 | 140 | 143 | 31,284 | 4.5 | 1.0 |
| 2011 | 141 | 147 | 24,827 | 5.7 | 1.0 |
| 2012 | 120 | 122 | 16,962 | 7.1 | 1.0 |
| Radical abdominal hysterect | omy | | | | |
| Open or Laparoscopic | | | | | |
| 2008 | 60 | 60 | 689 | 87.1 | 1.0 |
| 2009 | 393 | 405 | 2,908 | 135.1 | 1.0 |
| 2010 | 484 | 504 | 2,698 | 179.4 | 1.0 |
| 2011 | 527 | 564 | 2,546 | 207.0 | 1.1 |
| 2012 | 434 | 449 | 1,963 | 221.1 | 1.0 |
| Laparoscopic | | | | | |
| 2008 | 58 | 58 | 251 | 231.1 | 1.0 |
| 2009 | 391 | 403 | 1,320 | 296.2 | 1.0 |
| 2010 | 473 | 491 | 1,457 | 324.6 | 1.0 |
| 2011 | 517 | 554 | 1,562 | 331.0 | 1.1 |
| 2012 | 428 | 443 | 1,358 | 315.2 | 1.0 |
| Open | | | | | |
| 2008 | 2 | 2 | 439 | 4.6 | 1.0 |
| 2009 | 8 | 8 | 1,609 | 5.0 | 1.0 |
| 2010 | 14 | 16 | 1,270 | 11.0 | 1.1 |
| 2011 | 10 | 10 | 1,001 | 10.0 | 1.0 |
| 2012 | 8 | 8 | 620 | 12.9 | 1.0 |



| Primary Procedure | Number of Unique Patients with Laparoscopic Robotic- Assisted Px | Number of Laparoscopic Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure Patients | Procedures per Patient | |
|--------------------------------|--|--|---|---|---------------------------|--|
| Vaginal hysterectomy | | | | | | |
| Open or Laparoscopic | | | | | | |
| 2008 | 365 | 409 | 11,552 | 31.6 | 1.1 | |
| 2009 | 1,949 | 2,123 | 43,204 | 45.1 | 1.1 | |
| 2010 | 2,567 | 2,836 | 42,427 | 60.5 | 1.1 | |
| 2011 | 2,865 | 3,214 | 40,035 | 71.6 | 1.1 | |
| 2012 | 1,727 | 1,797 | 29,972 | 57.6 | 1.0 | |
| Laparoscopic | | | | | | |
| 2008 | 362 | 406 | 6,700 | 54.0 | 1.1 | |
| 2009 | 1,929 | 2,103 | 26,061 | 74.0 | 1.1 | |
| 2010 | 2,543 | 2,811 | 26,673 | 95.3 | 1.1 | |
| 2011 | 2,840 | 3,189 | 26,476 | 107.3 | 1.1 | |
| 2012 | 1,707 | 1,777 | 20,581 | 82.9 | 1.0 | |
| Open | | | | | | |
| 2008 | 8 | 8 | 5,105 | 1.6 | 1.0 | |
| 2009 | 46 | 46 | 18,143 | 2.5 | 1.0 | |
| 2010 | 54 | 56 | 16,522 | 3.3 | 1.0 | |
| 2011 | 49 | 51 | 14,222 | 3.4 | 1.0 | |
| 2012 | 31 | 33 | 9,850 | 3.1 | 1.1 | |
| Repair of cystocele and rector | cele | | | | | |
| Open or Laparoscopic | | | | | | |
| 2008 | 27 | 27 | 6,773 | 4.0 | 1.0 | |
| 2009 | 146 | 154 | 24,588 | 5.9 | 1.1 | |
| 2010 | 186 | 206 | 23,215 | 8.0 | 1.1 | |
| 2011 | 279 | 295 | 20,621 | 13.5 | 1.1 | |
| 2012 | 255 | 273 | 14,258 | 17.9 | 1.1 | |



| Primary Procedure | Number of Unique Patients with Laparoscopic Robotic- Assisted Px | Number of Laparoscopic Robotic-Assisted Procedures | Number of Unique Patients with Primary Procedure | Laparoscopic Robotic- Assisted Patients per 1000 Primary Procedure Patients | Procedures per Patient | |
|-------------------|--|--|---|---|---------------------------|--|
| Laparoscopic | | | | | | |
| 2008 | 2 | 2 | 36 | 55.6 | 1.0 | |
| 2009 | 9 | 10 | 136 | 66.2 | 1.1 | |
| 2010 | 10 | 10 | 120 | 83.3 | 1.0 | |
| 2011 | 10 | 12 | 149 | 67.1 | 1.2 | |
| 2012 | 13 | 13 | 159 | 81.8 | 1.0 | |
| Open | | | | | | |
| 2008 | 25 | 25 | 6,760 | 3.7 | 1.0 | |
| 2009 | 142 | 149 | 24,541 | 5.8 | 1.0 | |
| 2010 | 185 | 205 | 23,184 | 8.0 | 1.1 | |
| 2011 | 276 | 291 | 20,569 | 13.4 | 1.1 | |
| 2012 | 251 | 269 | 14,200 | 17.7 | 1.1 | |



Appendix A. Available Data in the Mini-Sentinel Distributed Database (MSDD) for Each Data Partner as of Request Distribution Date (July 29, 2013)

| Data Partner ID | Start Date | End Date |
|-----------------|------------|------------|
| DP001 | 10/1/2008 | 11/30/2012 |
| DP002 | 10/1/2008 | 12/30/2012 |
| DP003 | 10/1/2008 | 12/31/2012 |
| DP004 | 10/1/2008 | 4/30/2012 |
| DP005 | 10/1/2008 | 12/31/2011 |
| DP006 | 10/1/2008 | 12/31/2011 |
| DP007 | 10/1/2008 | 6/30/2012 |
| DP008 | 10/1/2008 | 6/30/2012 |
| DP009 | 10/1/2008 | 10/31/2012 |
| DP010 | 10/1/2008 | 12/31/2012 |
| DP011 | 10/1/2008 | 12/31/2012 |
| DP012 | 10/1/2008 | 9/30/2012 |
| DP013 | 10/1/2008 | 9/30/2012 |
| DP014 | 10/1/2008 | 12/31/2012 |
| DP015 | 10/1/2008 | 9/30/2012 |
| DP016 | 10/1/2008 | 12/31/2012 |
| DP017 | 10/1/2008 | 12/31/2012 |
| DP018 | 10/1/2008 | 12/31/2012 |



| Supracervic | al hysterecton | ηγ | |
|------------------|----------------|--|---|
| Procedure | | | |
| <u>(PX) Code</u> | Code Type | Group | Description |
| 68.3 | ICD-9 | Supracervical hysterectomy - open | Subtotal abdominal hysterectomy |
| 68.39 | ICD-9 | Supracervical hysterectomy - open | Other and unspecified subtotal abdominal hysterectomy |
| 58180 | СРТ | Supracervical hysterectomy - open | Supracervical abdominal hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s) |
| 68.31 | ICD-9 | Supracervical hysterectomy - laparoscopic | Laparoscopic supracervical hysterectomy [LSH] |
| 58541 | СРТ | Supracervical hysterectomy - laparoscopic | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less; |
| 58542 | СРТ | Supracervical hysterectomy - laparoscopic | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s) |
| 58543 | СРТ | Supracervical hysterectomy - laparoscopic | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g; |
| 58544 | СРТ | Supracervical hysterectomy - laparoscopic | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s) |

Total abdominal hysterectomy

| <u>PX Code</u> | Code Type | <u>Group</u> | Description |
|----------------|-----------|-------------------------------------|---|
| 68.4 | ICD-9 | Total abdominal hysterectomy - open | Total abdominal hysterectomy |
| 68.49 | ICD-9 | Total abdominal hysterectomy - open | Other and unspecified total abdominal hysterectomy |
| 58150 | СРТ | Total abdominal hysterectomy - open | Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s) and/or ovary(ies) |
| 58152 | СРТ | Total abdominal hysterectomy - open | Total abdominal hysterectomy with colpo-urethrocystopexy |
| 58200 | СРТ | Total abdominal hysterectomy - open | Total abdominal hysterectomy, including partial vaginectomy with para-aortic and pelvic lymph node sampling, with or without removal of tube(s), with or without removal of tube(s). |
| 58240 | СРТ | Total abdominal hysterectomy - open | Pelvic exenteration for gynecologic malignancy, with total abdominal hysterectomy or cervicectomy, with or without removal of tube(s), with or without removal of ovary(ies), with removal of bladder and ureteral transplantations, and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof |



| 58951 | 58951 CPT Total abdominal hysterectomy - open | | Resection of ovarian malignancy with bilateral salpingo- oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy | | | | |
|----------------|---|--|---|--|--|--|--|
| 58953 | СРТ | Total abdominal hysterectomy - open | Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking | | | | |
| 58954 | СРТ | Total abdominal hysterectomy - open | Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for | | | | |
| 68.41 | ICD-9 | Total abdominal hysterectomy - laparoscopic | Laparoscopic total abdominal hysterectomy | | | | |
| 58570 | СРТ | Total abdominal hysterectomy - laparoscopic | Laparoscopy, surgical, with total hysterectomy, for uterus 250g or less | | | | |
| 58571 | СРТ | Total abdominal hysterectomy - laparoscopic | Laparoscopy, surgical, with total hysterectomy, for uterus 250g or less, with removal of tube(s) and/or ovary(ies) | | | | |
| 58572 | СРТ | Total abdominal hysterectomy - laparoscopic | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250g | | | | |
| 58573 | СРТ | Total abdominal hysterectomy - laparoscopic | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250g, with removal of tube(s) and/or ovary(ies) | | | | |
| 58578 | СРТ | Total abdominal hysterectomy - laparoscopic | Unlisted laparoscopy procedure, uterus | | | | |
| Radical abo | dominal hyster | rectomy | | | | | |
| PX Code | Code Type | Group | Description | | | | |
| 68.6 | ICD-9 | Radical hysterectomy - open | Radical abdominal hysterectomy | | | | |
| 58210 | СРТ | Radical hysterectomy - open | Radical abdominal hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling | | | | |
| 68.61 | ICD-9 | Radical hysterectomy - laparoscopic | Laparoscopic radical abdominal hysterectomy (TLAH) | | | | |
| 58548 | СРТ | Radical hysterectomy - laparoscopic | Laparoscopy, surgical, with radical hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic | | | | |
| Vaginal hys | sterectomy | | | | | | |
| <u>PX Code</u> | Code Type | Group | Description | | | | |
| 68.5 | ICD-9 | Vaginal hysterectomy - open | Vaginal hysterectomy | | | | |
| 68.59 | ICD-9 | Vaginal hysterectomy - open | Other vaginal hysterectomy | | | | |
| 68.7 | ICD-9 | Vaginal hysterectomy - open | Radical vaginal hysterectomy | | | | |
| 68.79 | ICD-9 | Vaginal hysterectomy - open | Other and unspecified radical vaginal hysterectomy | | | | |
| 58260 | CPT | Vaginal hysterectomy - open | Vaginal hysterectomy, for uterus 250 grams or less | | | | |
| 58262 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy with removal of tube(s) and/or ovary(ies) | | | | |
| 58263 | CPT | Vaginal hysterectomy - open | Vaginal hysterectomy with removal of tube(s) and/or | | | | |

Vaginal hysterectomy with removal of tube(s) and/or ovary(ies) with repair of enterocele



| Current Pro | cedural Term | linology, Fourth Edition (CPT-4) Primary P | roceaure Codes (inclusion) |
|-------------|------------------|--|---|
| 58267 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy with colpo-urethrocystopexy (Marshall-Marchetti-Kranz type, Pereyra type, with or without endoscopic control) |
| 58270 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy with repair of enterocele |
| 58275 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy with total or partial vaginectomy |
| 58280 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy with total or partial vaginectomy with repair of enterocele |
| 58285 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy, radical (Schauta-type operation) |
| 58290 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy, for uterus greater than 250g |
| 58291 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy, for uterus greater than 250g; with |
| 58292 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy, for uterus greater than 250g; with removal of tube(s) and/or ovary(ies), with repair of enterocele |
| 58293 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy, for uterus greater than 250g; with colpo-urethrocystopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control |
| 58294 | СРТ | Vaginal hysterectomy - open | Vaginal hysterectomy, for uterus greater than 250g; with repair of enterocele |
| 68.51 | ICD-9 | Vaginal hysterectomy - laparoscopic | Laparoscopically assisted vaginal hysterectomy (LAVH) |
| 68.71 | ICD-9 | Vaginal hysterectomy - laparoscopic | Laparoscopic radical vaginal hysterectomy [LRVH] |
| 58545 | СРТ | Vaginal hysterectomy - laparoscopic | Vaginal hysterectomy with repair of enterocele |
| 58546 | СРТ | Vaginal hysterectomy - laparoscopic | Vaginal hysterectomy with total or partial vaginectomy |
| 58548 | СРТ | Vaginal hysterectomy - laparoscopic | Vaginal hysterectomy with total or partial vaginectomy with repair of enterocele |
| 58550 | СРТ | Vaginal hysterectomy - laparoscopic | Laparoscopy surgical, with vaginal hysterectomy, for uterus 250 grams or less; |
| 58552 | СРТ | Vaginal hysterectomy - laparoscopic | Laparoscopy surgical, with vaginal hysterectomy, for uterus 250 grams or less; with removal of tube(s) and/or ovary(s) |
| 58553 | СРТ | Vaginal hysterectomy - laparoscopic | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 grams; |
| 58554 | СРТ | Vaginal hysterectomy - laparoscopic | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 grams; with removal of tube(s) and/or ovary(s) |
| Repair of c | /stocele and r | rectocele | |
| PX Code | <u>Code Type</u> | Group | Description |
| | | | |

Repair of cystocele and rectocele Repair of cystocele and rectocele Repair of cystocele Repair, rectocele

ICD-9

ICD-9

ICD-9

ICD-9

Cystocele and rectocele repair - open

70.5

70.50

70.51

70.52



| •••••• | | | |
|--------|-------|--|--|
| 70.53 | ICD-9 | Cystocele and rectocele repair - open | Repair of cystocele and rectocele with graft or prosthesis |
| 70.54 | ICD-9 | Cystocele and rectocele repair - open | Repair of cystocele with graft or prosthesis |
| 70.55 | ICD-9 | Cystocele and rectocele repair - open | Repair of rectocele with graft or prosthesis |
| 70.92 | ICD-9 | Cystocele and rectocele repair - open | Other operations, vaginal and cul-de-sac, other |
| 70.93 | PX09 | Cystocele and rectocele repair - open | Other operations on cul-de-sac with graft or prosthesis |
| 45560 | СРТ | Cystocele and rectocele repair - open | Repair of rectocele |
| 57240 | СРТ | Cystocele and rectocele repair - open | Anterior colporrhaphy, repair of cystocele with or without repair of urethrocele. |
| 57250 | СРТ | Cystocele and rectocele repair - open | Posterior colporrhaphy, repair of rectocele with or without perineorrhaphy |
| 57268 | СРТ | Cystocele and rectocele repair - open | Repair of enterocele, vaginal approach |
| 57270 | СРТ | Cystocele and rectocele repair - open | Repair of enterocele, abdominal approach |
| 57284 | СРТ | Cystocele and rectocele repair - open | Paravaginal defect repair (including repair of cystocele, if performed); open abdominal approach |
| 57285 | СРТ | Cystocele and rectocele repair - open | Paravaginal defect repair (including repair of cystocele, if performed); vaginal approach |
| 57423 | СРТ | Cystocele and rectocele repair - laparoscopic | Paravaginal defect repair (including repair of cystocele, if performed), laparoscopic approach |



Appendix C. MSY4_MPR44_V2 Specifications

Modular Program #9 was used to investigate prevalent use of robotic-assisted procedures. In addition, this request analyzed use of laparoscopic robotic assistance for several specified primary procedures. The query period is from October 1, 2008 to December 31, 2012, and the enrollment gap is set at 45 days. Age groups were split as follows: 0-40, 41-54, 55-64, 65-74, 75-84, and 85+ years. In total, 15 unique scenarios are examined in this report with differing exposures of interest and inclusion criteria. See below for a description of each of these scenarios. Since incident procedures are not requested, incidence criteria (Incidence Type, Washout Period) were not listed. Please see Appendix C for a list of the inclusion codes used. This is report 3 of 3 for request MSY4_MPR44_V2.

| | Exposure Criteria | | | Inclusion/Exclusion Criteria | | | | | |
|----------|---|-----------------|------------------------|--|-------------------------|-------------------|-----------------|-----------------|-----------------|
| Scenario | Prevalent Exposure | Care Setting | Principal Diagnosis | Condition | Inclusion/ Exclusion | Lookback Start | Lookback End | Care Setting | Principal Dx |
| 1 | Laparoscopic robotic assisted procedure | All | No | Supracervical abdominal hysterectomy - open | Include | -1 | 1 | All | No |
| 2 | Laparoscopic robotic assisted procedure | All | No | Supracervical abdominal hysterectomy - laparoscopic | Include | -1 | 1 | All | No |
| 3 | Laparoscopic robotic assisted procedure | All | No | Supracervical abdominal hysterectomy - open or laparoscopic | Include | -1 | 1 | All | No |
| 4 | Laparoscopic robotic assisted procedure | All | No | Total abdominal hysterectomy - open | Include | -1 | 1 | All | No |
| 5 | Laparoscopic robotic assisted procedure | All | No | Total abdominal hysterectomy - laparoscopic | Include | -1 | 1 | All | No |
| 6 | Laparoscopic robotic assisted procedure | All | No | Total abdominal hysterectomy - open or laparoscopic | Include | -1 | 1 | All | No |
| 7 | Laparoscopic robotic assisted procedure | All | No | Radical abdominal hysterectomy - open | Include | -1 | 1 | All | No |
| 8 | Laparoscopic robotic assisted procedure | All | No | Radical abdominal hysterectomy - laparoscopic | Include | -1 | 1 | All | No |
| 9 | Laparoscopic robotic assisted procedure | All | No | Radical abdominal hysterectomy - open or laparoscopic | Include | -1 | 1 | All | No |
| 10 | Laparoscopic robotic assisted procedure | All | No | Vaginal hysterectomy - open | Include | -1 | 1 | All | No |
| 11 | Laparoscopic robotic assisted procedure | All | No | Vaginal hysterectomy - laparoscopic | Include | -1 | 1 | All | No |
| 12 | Laparoscopic robotic assisted procedure | All | No | Vaginal hysterectomy - open or laparoscopic | Include | -1 | 1 | All | No |
| 13 | Laparoscopic robotic assisted procedure | All | No | Repair of cystocele and rectocele - open | Include | -1 | 1 | All | No |
| 14 | Laparoscopic robotic assisted procedure | All | No | Repair of cystocele and rectocele - laparoscopic | Include | -1 | 1 | All | No |
| 15 | Laparoscopic robotic assisted procedure | All | No | Repair of cystocele and rectocele - open or laparoscopic | Include | -1 | 1 | All | No |