Resource Guide

Midas™ DataVision™ and CPMS clients can access a number of valuable information resources in the Clients Only area of www.midasplus.com. If you have trouble accessing or using any of the documentation resources listed below, please submit a request through the Support Center or contact the Midas Hotline at 1-800-737-8835 ext. 4106.

Measure Definitions

Log in to the Clients Only area of the Midas website, and choose Support > DataVision Resources > Midas Measures to access:

- Convenient direct links to the most recently updated measure definition documents
- A Midas measure definition PDF portfolio that includes the complete set of Midas measure definition documents for DataVision and CPMS (including archived material)
- A core measure definition PDF portfolio that includes the complete set of core measures for all agencies we work with
- A measure directory worksheet that lists each measure number, along with its title, Midas products, Clinical Topic, and Profile.
- CCS ICD-9 and ICD-10 diagnosis and procedure categories
- Midas Risk Adjustment Model Clinical Clusters and Complications

Release Notes and User Guides

- **Release Notes**
  Quarterly server and web application updates are detailed in release note documents for DataVision, CPMS, and Behavioral Health clients. The latest edition of these release notes can be accessed in the Clients Only area of the Midas website.

  In addition, a PDF portfolio containing the last 18 months of release notes for each product is also available for review. The portfolio is republished quarterly with the inclusion of the latest edition of the release notes.

- **Quick Start Guides**
  Numerous user guides are available via the Clients Only area of the Midas website. Each guide provides step-by-step instructions, screen shots, and other information to assist clients in performing a specific set of tasks or to provide information about a specific topic.

  A Quick Start Guide Portfolio is also available, containing the complete set of CPMS and DataVision Quick Start Guides. The portfolio is updated as new editions of the Quick Start Guides are published.

To access these resources, log in to the Clients Only area of the Midas website and choose Support > DataVision Resources > DataVision Main Page. Links to the Release Notes and Quick Start Guides are at the top of the list of resource links on this page.

Acrobat Reader v9.0 or later is required for best use of the PDF portfolios listed above. You can download the latest version of Acrobat Reader free-of-charge from www.adobe.com.
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Midas Risk Adjustment Model

Midas has released a new "gold standard" for its Risk Adjustment Methodology. Risk Model Version 2.0 will replace version 1.1, which applied to patients discharged after October 1, 2015.

1. Site Parameter to control transition date to Midas Risk Models for Version 2.0

Because Midas clients use the Midas Hospital Risk Adjustment Methodology for trending longitudinal performance, establishing targets for incentive bonus payments, and reporting organizational performance relative to their unique fiscal years, it is essential that observed and expected values calculated in Midas Risk Model Version 1.0 and 1.1 be maintained for historical reference, while at the same time moving forward with Version 2.0. To accomplish this, Midas has created a site parameter that allows clients to choose the month in which they transition to Version 2.0. While the default month for most clients will be in May at the time they receive their quarterly updates, clients may, upon request, defer their transition month to later in 2017 in order to complete their end of fiscal year reporting using Version 1.0/1.1 models. All clients must transition to Version 2.0 no later than December 2017.

Important Note: To select an alternative transition date, please file a support ticket through the Midas Support Center no later than May 10, 2017.

2. New Midas Risk Model Clinical Clusters and Complications

All XRA DRGs (also known as Clinical Clusters) and XRA Complications from version 1.0/1.1 have been retired. Replacing them in Version 2.0 are a series of new Clinical Clusters and Complications with a code of MRA (Midas Risk Adjustment). See the appendices at the end of this release note document for a complete listing of new, renamed, retained, and retired Clinical Clusters and Complications.

Version 1.0/1.1 XRA profiles will be retained in the system for historical reporting. Following the transition to Version 2.0 these indicators will no longer process during the nightly or weekend summary job on your server, and drill-down to encounter level detail will be blocked. (See note in item 3 following for information about how to temporarily restore encounter drill down to blocked XRA indicators.)

MRA Clusters that represent clinical populations previously supported in Version 1.0/1.1 will be summarized back to January 2015 on your server, with the exception of new clinical populations that began with the onset of ICD-10 coding on October 1, 2015. MRA Complication Clusters will only summarize back to October 1, 2015. Hospitals that wish to have their data summarized back farther than January 2015 may submit a support ticket to have their data re-summarized prior to January 2015.

Note that performance data from Version 1.0/1.1 will be retained in the DataVision Web Application for the foreseeable future. New 2.0 performance data will be updated in the DataVision Web Application in the July 2017 update.
3. **DataVision Navigator Reorganization**

The DataVision Navigator (on the server) organizes the Midas Risk Model Clinical Cluster and Complications XRA indicators. Upon transition to Version 2.0, all XRA indicators from Version 1.0 and 1.1 will be retired and moved into folders designated as “Archived Risk Model” and “Archived Risk Model Complications” for historical reference. See illustration below.

Indicators in the Archived Risk Model folders will not support encounter drill down or be available for selection when running Standard Reports in DataVision. This change was made to conserve disc space on your Midas Server.

**Note:** Encounter drill down containing XRA values can still be obtained using the Report Data Transfer Function in Midas for CDB:933 Inpatient Mortality Denominator. In addition, a ReporTrack Template will be available for download from the Midas Clients Only Website, which will allow users to compare encounter detail using both Version 1.1 and 2.0. Clients can also request temporary access to encounter drill down for selected XRA indicators and date ranges if desired.
4. **Report Data Transfer Compare Template**

For encounters discharged on or after October 1, 2015, clients will be able to compare encounter-level risk values compiled using the crosswalk Version 1.1 with new values compiled using the new "gold standard" with Version 2.0. There will be three different versions available for Midas Care Management 2011, 2012 and 2014. This ReporTrack template is available on the Midas Clients Only Website. The fields available in the Midas Risk Model Compare Template are listed below.

- Account No.
- Fac Code
- Facility
- Patient Name
- Universal ID
- MRN
- DRG
- DRG Desc
- DRG Type
- Principal DX
- Principal DX Description
- PROC1
- PROC1_DATE
- PROC1_Description
- V 1.1 XRA Clinical Cluster Code
- V 1.1 XRA Clinical Cluster Description
- V 2.0 MRA Clinical Cluster Code
- V 2.0 MRA Clinical Cluster Description
- Start Dt
- Start Tm
- End Dt
- End Tm
- Observed LOS
- V 1.1 XRA Expected LOS
- V 2.0 MRA Expected LOS
- V 1.1 XRA Expected Charges
- V 2.0 MRA Expected Charges
- V 1.1 XRA Risk of Readmission (Same Server)
- V 1.1 XRA Adjusted Risk of Readmission (Any Facility)
- V 2.0 MRA Risk of Readmission (Same Server)
- V 2.0 MRA Adjusted Risk of Readmission (Any Facility)
- V 1.1 XRA Days to Readmission
- V 2.0 MRA Days to Readmission
- V 1.1 XRA Individual Relative Weight
- V 2.0 MRA Individual Relative Weight
- V 1.1 XRA Risk of Mortality
- V 2.0 MRA Risk of Mortality
- Facility DC Disposition

5. **New Risk Value Storage and Display**

The Risk Model Values Focus Study stores and displays observed and expected values for all inpatient encounters that have been assigned to a clinical cluster in either Version 1.0 or Version 2.0. Encounters discharged between January 1, 201x and September 30, 2015 (using ICD-9 claims) will display values calculated from Version 1.0.¹ Encounters discharged on or after October 1, 2015,

¹ Note: The time period for the run back is controlled by the site parameter “CDB-MONTHS FOR POST-INSTALL WEEKEND RUNBACK”. If the site parameter is null (not set to any value) then we will process back to January 1, 2015 the weekend after the May general release package is installed. If that site parameter has been set to a value, we will only process back as far as that parameter is set to process. Clients can request this to go back farther than their site parameter is set if they desire.
(using ICD-10 claims) will display values in the Focus Study calculated from Version 2.0. In addition, all fields in the Risk Model Value Focus are available to SmarTrack so that clients can create new rules to track, for example, patients with a low probability of a quality event where the quality event occurred, or patients with high readmission probabilities.

To view a Risk Model Values Focus Study, select an inpatient encounter and go to Focus Study > Focus Study – Encounter Level and view the Risk Model Value Focus Study. The following values will display in this Focus Study:

- Clinical Cluster Code
- Clinical Cluster Description
- MRA Service Line
- MRA DRG Type
- Individual Relative Weight
- Expected Mortality
- Observed Mortality
- Expected LOS
- Observed LOS
- Probability of Readmission to Your Hospital(s)
- Probability of Readmission to Any US Hospital
- 30-Day Unplanned Readmit
- Expected Charges
- Observed Charges
- Total Observed Complications
- Total Expected Complications
- Complication Cluster Code
- Complication Cluster Description
- Observed Complication
- Expected Complication
- ICD-10 Code (that qualified for the complication)
- ICD-10 Code Description
6. Updated Data Quality Measures

The Data Quality Profile in DataVision includes seven measures that examine data completeness for XRA and MRA Clusters. The seven indicators below have been renamed to reflect their applicability for both XRA and MRA indicators.

- CDBR:579 Inpatients - % without XRA/MRA Clinical Cluster Code
- CDBR:583 Inpatients - % without XRA/MRA Expected Charges
- CDBR:582 Inpatients - % without XRA/MRA Expected Length of Stay
- CDBR:584 Inpatients - % without XRA/MRA Individual Relative Weight
- CDBR: 585 Inpatients - % without XRA/MRA Risk of Complication
- CDBR:580 Inpatients - % without XRA/MRA Risk or Mortality
- CDBR:581 Inpatients - % without XRA/MRA Risk of Readmission

7. DataVision Standard Reports and Toolpacks

All DataVision Standard Reports and Toolpacks will continue to run for MRA indicators. The column headers in the data detail worksheets have been relabeled as MRA values. XRA indicators will not be available for selection in the DataVision Standard Reports and Toolpacks.

8. Risk Model Toolpack Updated

The following changes have been made to the Midas Risk Model Toolpack:

- Removed “Individual XRA Complications” from “Data-All” tab
- Change tab name and report name from “Complications of Care” to “Complications NPOA” on “Complications of Care” tab.
- Changed table header from “Charges” to “Costs and Charges” on “Utilization” tab.
- Display values for all hours even if they have a value of zero on “Admit & Discharge Time” tab.
- Changed table headers on “Attending Provider Utilization” tab, as follows:

<table>
<thead>
<tr>
<th>Old Header</th>
<th>New Header</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average of Observed LOS</td>
<td>Average Observed LOS</td>
</tr>
<tr>
<td>Average of XRA Expected LOS</td>
<td>Average Expected LOS</td>
</tr>
<tr>
<td>Observed/XRA Expected LOS</td>
<td>Observed/Expected LOS</td>
</tr>
<tr>
<td>Average of Observed Charges</td>
<td>Average Observed Charges</td>
</tr>
<tr>
<td>Average of Expected XRA Charges</td>
<td>Average Expected Charges</td>
</tr>
<tr>
<td>Observed/XRA Expected Charges</td>
<td>Observed/Expected Charges</td>
</tr>
</tbody>
</table>
New and Modified Measures and Profiles

9. New Acute Care Musculoskeletal Mortality Rate Measures

Two new acute care Musculoskeletal have been added, as follows.

- CDBR:2154 Acetabular Fracture - Mortality Rate
  To view this measure in the DataVision Navigator, select Musculoskeletal > Acetabular Fracture > Clinical Outcome Profile
- CDBR:2155 Pelvic Fracture - Mortality Rate
  To view this measure in the DataVision Navigator, select Musculoskeletal > Pelvic Fracture > Clinical Outcome Profile.

For more information, refer to the measure definitions section of the Midas Clients Only website, as described on the Resources page at the front of this document. Measure definitions can also be accessed in the DataVision application by selecting the measure and clicking the Measure Definition link.

10. Correction to Readmission on the Same Server

A change was made to the two measures below to correct an issue where readmissions to a different facility on the same server were not being counted. This was an issue in Midas Care Management versions 8.1r6 and 2011. Care Management versions 2012 and newer were not affected by this issue.

- CDBR:2152 Acetabular Fracture – Percent Readmit within 30 Days, Same Server
- CDBR:2153 Pelvic Fracture – Percent Readmit within 30 Days, Same Server

Note: This issue did not impact any other readmission measures in DataVision.

To view these measures in the DataVision Navigator, select Musculoskeletal > Acetabular Fracture > Clinical Outcome Profile or select Musculoskeletal > Pelvic Fracture > Clinical Outcome Profile

11. Correction to CHF Comorbidity

A change was made to the CHF comorbidity measure below to correct an issue introduced in the February overlay. This issue caused a significant decrease in the count of encounters with a secondary diagnosis of congestive heart failure for this measure. Note: This issue did not impact any other comorbidity measures in DataVision.

- CDBR:087 CHF Comorbidity – Per 1000 Acute Care Admits

To view this measure in the DataVision Navigator, select Facility Profile > Comorbidity, Major
12. Emergency Department Indicators Corrected for Negative Values

An issue has been corrected in which certain Emergency Department Indicators were not correctly excluding encounters with negative length of stay values in the numerator or denominator. This was a rare data integrity issue that impacted a small number of hospitals. For those hospitals, the following ED measures were affected.

- CDBR:131 Emergency Department - % Length of Stay 6 Hours or More
- CDBR:132 Emergency Department - % Discharged to Outside Acute Care
- CDBR:1831 Emergency Department - Average Length of Stay (hours)
- CDBR:2144 Emergency Department - Mortality Rate
- CDBR:2145 Emergency Department - Left Against Medical Advice

**Note:** Data will be automatically re-summarized back to January 2015 on the weekend following receipt of the quarterly update or within the time frame set by your organization’s site parameter for the weekend summary job.

To view these measures in the DataVision Navigator choose Facility Profile > Emergency Department.

For more information on these measures, refer to the measure definitions section of the Midas Clients Only website, as described on the Resources page at the front of this document. Measure definitions can also be accessed in the DataVision application by selecting the measure and clicking the Measure Definition link.

13. Behavioral Health Readmission Measures Corrected

An issue has been corrected in which inpatient delivery and newborn encounters were not being properly excluded for the Behavioral Health readmission measures listed below. Note that this exclusion criteria applied to the numerator (readmission event), which also requires a readmission for any cause back to an inpatient psychiatric location or service. It is highly unlikely that this correction will impact previously reported data, given that psychiatric admissions rarely deliver babies during the same encounter.

- CDBR:139 Behavioral Health, Acute Care – Percent Readmit within 14 Days
  *Path:* Behavioral Health > General Acute Care Psych Department (Clinical Outcome Profile)

- CDBR:704 Behavioral Health – Percent Readmit within 7 Days
  *Path:* Behavioral Health > General Psychiatric Hospital (Clinical Outcome Profile)

- CDBR:738 Depression, Recurrent, Principal Diagnosis – Percent Readmit within 30 Days
  *Path:* Behavioral Health > Depression Profile (Clinical Outcome Profile)

- CDBR:745 Substance Abuse, Dependent, Principal Diagnosis – Percent Readmit within 30 Days
  *Path:* Behavioral Health > Substance Abuse Profile (Clinical Outcome Profile)
- CDBR:752 Depression, Single Episode, Principal Diagnosis – Percent Readmit within 30 Days
- CDBR:759 Depression, Secondary Diagnosis – Percent Readmit within 30 Days
  *Path:* Behavioral Health > Depression Profile (Clinical Outcome Profile)

- CDBR:766 Substance Abuse, Dependent, Secondary Diagnosis – Percent Readmit within 30 Days
- CDBR:773 Substance Abuse, Nondependent, Any Diagnosis – Percent Readmit within 30 Days
  *Path:* Behavioral Health > Substance Abuse Profile (Clinical Outcome Profile)

**Hospital Acquired Conditions**

**14. Modifications Made to Hospital Acquired Conditions folders**

Hospital Acquired Conditions folders have been renamed and relocated as follows:

<table>
<thead>
<tr>
<th>Old Folder Name</th>
<th>New Folder Name</th>
<th>Navigation Tree Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital Acquired Conditions - Per 1000 ACA</td>
<td>Total CMS Hospital Acquired Conditions - Per 1000 ACA</td>
<td>Safety &gt; Patient Safety &gt; CMS Hospital Acquired Conditions – ACA</td>
</tr>
<tr>
<td>Hospital Acquired Conditions - Per 1000 Inpatients</td>
<td>Total CMS Hospital Acquired Conditions - Per 1000 Inpatients</td>
<td>Safety &gt; Patient Safety &gt; CMS Hospital Acquired Conditions - Inpatients</td>
</tr>
<tr>
<td>Hospital Acquired Conditions - Per 1000 Medicare ACA</td>
<td>Total CMS Hospital Acquired Conditions - Per 1000 Medicare ACA</td>
<td>Safety &gt; Patient Safety &gt; CMS Hospital Acquired Conditions – Medicare ACA</td>
</tr>
<tr>
<td>Hospital Acquired Conditions - Per 1000 Medicare Inpatients</td>
<td>Total CMS Hospital Acquired Conditions - Per 1000 Medicare Inpatients</td>
<td>Safety &gt; Patient Safety &gt; CMS Hospital Acquired Conditions – Medicare Inpatients</td>
</tr>
</tbody>
</table>

**15. Total CMS Hospital Acquired Conditions Measures Updated**

Measure Definitions for the Total CMS Hospital Acquired Conditions measures listed below previously stated that the numerators display a “count of encounters.” These definitions have been corrected to more accurately describe what is being captured in the numerators. The four measures were not modified in any way.

- CDBR:1335 Total CMS Hospital Acquired Conditions – Per 1000 Inpatients
- CDBR:1337 Total CMS Hospital Acquired Conditions – Per 1000 ACA
- CDBR:1338 Total CMS Hospital Acquired Conditions – Per 1000 Medicare ACA
- CDBR:1336 Total CMS Hospital Acquired Conditions – Per 1000 Medicare Inpatients

The measures above are “roll up measures” that reflect the sum of the individual complication measures found in the Safety > Patient Safety > CMS Hospital Acquired Conditions folders. The
numerators are counting all encounters in the numerators for the following CMS Hospital Acquired Conditions measures:

- Air embolism – Per 1000 Inpatients
- Blood Incompatibility – Per 1000 Inpatients
- Catheter Associated UTI – Per 1000 Inpatients
- DVT/PE Orthopedic – Per 1000 Inpatients
- Foreign Body Left During Procedure – Per 1000 Inpatients
- Hospital Acquired Conditions – Per 1000 Inpatients
- Hospital Acquired Injuries – Per 1000 Inpatients
- Iatrogenic Pneumothorax with Venous Cath – Per 1000 Inpatients
- Infection from Central Venous Cath – Per 1000 Inpatients
- Mediastinitis after CABG – Per 1000 Inpatients
- Poor Glycemic Control – Per 1000 Inpatients
- Pressure Ulcers NPOA, All Stages – Per 1000 Inpatients
- Pressure Ulcers NPOA, Stage III and IV – Per 1000 Inpatients
- Surgical Site Infections, Bariatric – Per 1000 Inpatients
- Surgical Site Infections, CIED, - Per 1000 Inpatients
- Surgical Site Infections, Orthopedic – Per 1000 Inpatients

Note that an individual encounter that qualified for multiple individual conditions above would be counted each time they qualified for a given measure; thus these four roll up measures are counting complication types, rather than individual encounters with one or more conditions as previously described in the documentation.

Leapfrog

16. Leapfrog Measures Added

The following new Leapfrog Version 7.0 Inpatient Surgery measures defined using ICD-10 Codes have been added to assist clients with their 2017 reporting requirements to The Leapfrog Group.

- CDBR:2156 Carotid endarterectomy
- CDBR:2157 Mitral valve repair and replacement
- CDBR:2158 Open aortic aneurysm repair
- CDBR:2159 Lung resection
- CDBR:2160 Esophageal resection
17. Leapfrog Measures Archived

The following Leapfrog measures, discontinued for 2017 reporting and end-dated as of 10/2015, have been relocated to the archive folder at: Facility Profile > Archived Measures > Leapfrog Group > Volume/Outcome.

- Abdominal Aortic Aneurism Repair Volume (before 10/15)
- Abdominal Aortic Aneurism without Rupture Mortality Rate (before 10/15)
- Abdominal Aortic Aneurism without Rupture Volume (before 10/15)
- AMI, Length of Stay, Geometric Mean (GMLOS) (before 10/15)
- AMI, Volume (before 10/15)
- Aortic Valve Replacement Mortality Rate (before 10/15)
- Aortic Valve Replacement Volume (before 10/15)
- Aortic Valve Replacement Volume, Transcatheter (before 10/15)
- Esophagectomy Volume (before 10/15)
- Esophagectomy with Cancer Diagnosis Volume (before 10/15)
- Esophagectomy with Cancer Mortality Rate (before 10/15)
- Heart Failure, Length of Stay, Geometric Mean (GMLOS) (before 10/15)
- Heart Failure, Volume (before 10/15)
- Pancreatic Resection Volume (before 10/15)
- Pancreatic Resection with Cancer Mortality Rate (before 10/15)
- Pancreatic Resection with Cancer Volume (before 10/15)
- Pneumonia, Length of Stay, Geometric Mean (GMLOS) (before 10/15)
- Pneumonia, Volume (before 10/15)
Agency for Healthcare Research and Quality (AHRQ)

18. PSI 09 Perioperative Hemorrhage or Hematoma

In the PSI 09 measures listed below, an issue with the denominator exclusion has been corrected for encounters in which the only operating room procedures were for treatment of perioperative hemorrhage or hematoma. This issue caused encounters to be incorrectly excluded from the denominator. The following measures were affected.

- CDBR:1907 PSI 09 Perioperative Hemorrhage or Hematoma - Per 1000 ACA
- CDBR:1908 PSI 09 Perioperative Hemorrhage or Hematoma - Per 1000 Inpatients
- CDBR:1909 PSI 09 Perioperative Hemorrhage or Hematoma - Per 1000 Medicare ACA
- CDBR:1910 PSI 09 Perioperative Hemorrhage or Hematoma - Per 1000 Medicare Inpatients

To view these measures in the DataVision Navigator choose Safety > Patient Safety and select one of the following profiles:

- AHRQ Patient Safety Indicators - ACA
- AHRQ Patient Safety Indicators - Inpatients
- AHRQ Patient Safety Indicators - Medicare ACA
- AHRQ Patient Safety Indicators - Medicare Inpatients

National Quality Improvement Projects

Standard Reports

DataVision Value Based Purchasing Standard Report

19. FFY2018 Baseline compared to FFY2018 Performance Period Values Updated

In May 2016 when the DataVision Value Based Purchasing Standard Report was updated to incorporate FFY2018 into the report, CMS had not released updated Hospital Compare files. They have since released their updated files and we have refreshed our data to provide the percentiles for your facility’s performance.

Core Appropriateness of Care

20. Core Appropriateness of Care Indicators Retired

Over the past two years many of the core measures that make up the Appropriateness of Care bundle measures have been retired, resulting in bundle measures having no data accruing to them.
To clarify that these core measures are retired, Midas has renamed the Indicators listed below by noting the retirement date in the name.

- All ORYX Accountability Measures All-or-None Bundle (before 1/17)
- All ORYX Accountability Measures Composite Bundle (before 1/17)
- Composite Bundle (expanded) (before 1/16)
- All Topics All-or-None Bundle (expanded) (before 1/16)
- VBP Clinical Domain FFY2013 Composite Bundle (before 1/16)
- VBP Clinical Domain FFY2013 All-or-None Bundle (before 1/16)
- VBP Clinical Domain FFY2014 Composite Bundle (before 1/16)
- VBP Clinical Domain FFY2014 All-or-None Bundle (before 1/16)
- VBP Clinical Domain FFY2015 Composite Bundle (before 1/16)
- VBP Clinical Domain FFY2015 All-or-None Bundle (before 1/16)
- VBP Clinical Domain FFY2016 Composite Bundle (before 1/16)
- VBP Clinical Domain FFY2016 All-or-None Bundle (before 1/16)
- Acute MI All-or-None Bundle (before 1/16)
- Pneumonia All-or-None Bundle (before 10/15)
- SCIP-1-2-3 All-or-None Bundle (before 10/15)
- SCIP Infection 1-10 All-or-None Bundle (before 10/15)
- SCIP ALL measures All-or-None Bundle (before 10/15)
- Custom Acute MI All-or-None Bundle (before 1/16)
- Custom Pneumonia All-or-None Bundle (before 10/15)
- Custom SCIP All-or-None Bundle (before 10/15)

To access these measures in DataVision Navigator, select National Quality Improvement Projects > Joint Commission > Core Appropriateness of Care.

For more information, refer to the measure definitions section of the Midas Clients Only website, as described on the Resources page at the front of this document. Measure definitions can also be accessed in the DataVision application by selecting the measure and clicking the Measure Definition link.

### 21. Measures Added to Core Appropriateness of Care Profile

The following measures have been added to the Core Appropriateness of Care profile.

- Substance Use - All-or-None Bundle
- Tobacco Treatment - All-or-None Bundle
Comprehensive Stroke - All-or-None Bundle

To access these measures in DataVision Navigator, select National Quality Improvement Projects > Joint Commission > Core Appropriateness of Care.

For more information, refer to the measure definitions section of the Midas Clients Only website, as described on the Resources page at the front of this document. Measure definitions can also be accessed in the DataVision application by selecting the measure and clicking the Measure Definition link.

Joint Commission Disease-Specific Care (DSC) Certification

TJC Comprehensive Stroke (CSTK)

22. Changes to TJC Comprehensive Stroke Focus Study Effective 7/2017

To maintain alignment with The Joint Commission’s 2017A manual, the field IV Thrombolytic Initiation has been added to the TJC Comprehensive Stroke Focus Study effective with July 1, 2017 discharges. Abstraction criterion information for this new field has been added via the Midas Criterion Instructions Web Application (CIWA).

Hospital Inpatient Quality Measures

Core Perinatal Care (PC)

23. Changes to Core Perinatal Care Focus Study Effective 7/2017

To maintain alignment with The Joint Commission’s 2017A manual, the field History of Stillbirth has been added to the Core Perinatal Care Focus Study effective with July 1, 2017 discharges. Abstraction criterion information for this new field has been added via the Midas Criterion Instructions Web Application (CIWA).

Core Venous Thromboembolism (VTE)

24. Core VTE Initial Patient Population Modified Effective 1/2017 Discharges

VTE-5 has been retired effective with January 1, 2017, discharges, leaving VTE-6 as the only remaining measure in the VTE topic. Version 5.2a of CMS’ Hospital Inpatient Quality Reporting Manual retires the Principal VTE sub-population to align with the retirement of VTE-5. The initial patient population for Core VTE has been modified to only include cases with an ICD-10 Other Diagnosis Code on table 7.03 or 7.04. Cases with an ICD-10 Principal Diagnosis Code of VTE are now excluded from the VTE population.
CMS Inpatient Quality Psychiatric Facility Reporting (IPFQR)

Core Hospital Based Inpatient Psychiatric Service - CMS IPFQR (HBIPS-CMS IPFQR)

25. Sampling by Age Stratification Available

To provide better alignment with CMS’ sampling requirements as outlined in the *Inpatient Psychiatric Facility Quality Reporting Manual*, participating facilities now have two sampling options for their HBIPS-CMS IPFQR discharge population.

- **Option 1:** Use the sampling table provided in the *Inpatient Psychiatric Facility Quality Reporting Manual*. This option is best for facilities that treat psychiatric patients of all ages because it reduces the overall number of sampled cases.

- **Option 2:** Use the TJC age-stratified sampling table provided in the *Specifications Manual for Joint Commission National Quality Measures*. This option is preferred for facilities that only treat psychiatric patients in certain age groups.

To request age stratification sampling of the HBIPS-CMS IPFQR discharge population, please submit a request via the Midas Support Center on the Midas Clients Only website.

The following Profiles and Indicators have been created to provide support for sampling by age stratification.

- Core HBIPS - CMS IP Psych Age Stratified
- Core HBIPS - CMS IP Psych Age Stratified - Detail
- Core HBIPS - CMS IP Psych Age Stratified - OFI Targets

**DataVision Navigator**

The following changes have been made in the DataVision Navigator.

- The profile HBIPS-CMS IP Psych Age Stratified has been added.
  
  To view this profile select National Quality Improvement Projects > CMS Inpatient Psych Facility Quality Reporting > HBIPS-CMS IP Psych Age Stratified.

- The HBIPS - CMS IPFQR profile has been renamed “HBIPS - CMS IPFQR (before 1/16)”

- The profiles HBIPS-CMS IPFQR and HBIPS-CMS IP Psych Age Stratified have been added.
  
  To view these profiles select Physician Profile > Peer Review Profile > Core Measure OFI.

Hospital Outpatient Quality Reporting

Core HOP External Beam Radiotherapy (EBRT)

26. Abstraction of multiple anatomic sites available

To align with CMS’ requirement for abstraction of multiple anatomic sites for a single encounter, the Core HOP EBRT Focus Study has been updated.
The following fields have been added, effective 1/1/2017:

- Anatomic Site (Optional)
- EBRT Treatment of Different Anatomic Site During Encounter

Tabs have been added for abstraction of two additional anatomic treatment sites per encounter. The Attribution tab has been modified by adding category assignment, provider, location and employee attribution fields for each of the three anatomic sites.

**Programming changes**

The programming for calculating the Core OP-33 – External Beam Radiotherapy for Bone Metastases has been modified to provide the user with the count of anatomic sites treated (denominator) and the count of treated anatomic sites receiving one of the recommended fractionation schemes (numerator).

### 27. Core HOP EBRT Changes Effective January 1, 2017

To align with CMS’ version 10.0a HOQR manual the Core HOP EBRT measure set and Focus Study have been modified to allow collection of External Beam Radiation Therapy to up to three anatomic sites.

**Focus Study changes**

CPI:047 Core HOP EBRT

For clarity purposes, the field EBRT to Soft Tissue Site Only has been renamed EBRT Used for Anything Other Than Bone Mets.

The following fields have been retired effective 12/31/2016, and renamed in Focus Definition.

<table>
<thead>
<tr>
<th>Old Name</th>
<th>New Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated with Radiosurgery or SBRT</td>
<td>Treated with Radiosurgery or SBRT (before 1/17)</td>
</tr>
<tr>
<td>Radicular Pain</td>
<td>Radicular Pain (before 1/17)</td>
</tr>
<tr>
<td>Specified Patient Reason</td>
<td>Specified Patient Reason (before 1/17)</td>
</tr>
</tbody>
</table>

The following fields have been added, effective 1/1/2017:

- Cauda Equina Compression Related to Bone Mets/Treated w/EBRT
- Spinal Cord Compression Related to Bone Mets/Treated w/EBRT
- Radicular Pain Related to Bone Mets/Treated w/EBRT

Abstraction criterion information for these new fields have been added via the Midas Criterion Instructions Web Application (CIWA).
Core HOP Web-Reported Measures

28. Core HOP Annual Web-Reported Measures Modified to Accrue by Outpatient Encounter Arrival Date Effective 1/2017

To bring the HOP annual web-reported measures into alignment with other HOP measures, the populations have been modified to summarize (accrue) by the date in the abstracted field Outpatient Encounter Arrival Date, effective with the 1/1/2017 start date.

The Outpatient Encounter Arrival Date is required for HOP core measure logic. Missing data in this field will prevent cases from being assigned to the numerator or denominator. Because this change is retroactive to January 1, 2017, Focus Studies abstracted previous to this update will need this field completed.

The field Outpatient Encounter Arrival Date has been added to the following Core HOP Focus Studies.

- CPI:037 Core HOP/ASC Colon Screening
- CPI:537 Core Reliability HOP/ASC Colon Screening
- CPI:038 Core HOP/ASC Colon Surveillance
- CPI:538 Core Reliability HOP/ASC Colon Surveillance
- CPI:039 Core HOP/ASC Cataracts
- CPI:539 Core Reliability HOP/ASC Cataracts
- CPI:047 Core HOP EBRT

MassHealth

29. MAT-3 Elective Delivery Retired Effective 12/2016 Discharges

In an email communication on February 27, 2017, MassHealth announced the retirement of data collection and submission requirements for MAT-3 Elective Delivery beginning with Q1 2017 discharges.

Midas has end-dated accrual of the MAT-3 population effective with December 31, 2016, discharges. This population will not be checked for data quality or missing data beginning with the Q1 2017 harvest.

In the MassHealth P4P – Detail Profile, the Indicator CPIR:10133 has been renamed.

<table>
<thead>
<tr>
<th>Old Name</th>
<th>New Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH MAT-3 Elective Delivery &gt;37 - &lt;39 completed weeks gestation</td>
<td>MH MAT-3 Elective Delivery &gt;37 - &lt;39 completed weeks gestation (before 1/17)</td>
</tr>
</tbody>
</table>
Appendix A:
Midas Risk Model Version 2.0 Medical Clusters

Medical Clusters Added in Version 2.0

The following Medical Cluster has been added in Risk Model Version 2.0

- MRA 273 Supervision and Care of High Risk Pregnancy

Version 1.0/1.1 Medical Clusters Renamed in Version 2.0

The following Medical Clusters have been renamed in Risk Model Version 2.0

<table>
<thead>
<tr>
<th>Code</th>
<th>Version 1.0/1.1 Cluster Name</th>
<th>Version 2.0 Cluster Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Abdominal Hernia</td>
<td>Abdominal, Inguinal and Other Hernia</td>
</tr>
<tr>
<td>103</td>
<td>Acquired Deformities</td>
<td>Acquired Musculoskeletal Deformities</td>
</tr>
<tr>
<td>125</td>
<td>Cardiac Arrest</td>
<td>Cardiac or Respiratory Arrest</td>
</tr>
<tr>
<td>128</td>
<td>Cardiomyopathy and Myocarditis</td>
<td>Cardiomyopathy, Myocarditis, Endocarditis and Pericarditis</td>
</tr>
<tr>
<td>129</td>
<td>Cellulitis and Abscess</td>
<td>Cellulitis, Abscess and Lymphangitis</td>
</tr>
<tr>
<td>131</td>
<td>Chronic Obstructive Disease</td>
<td>Chronic Obstructive Disease and Emphysema</td>
</tr>
<tr>
<td>137</td>
<td>Pregnancy, Childbirth, and the Puerperal Period</td>
<td>Conditions of Pregnancy, Childbirth, and the Puerperium</td>
</tr>
<tr>
<td>139</td>
<td>Congestive Heart Failure</td>
<td>Heart Failure</td>
</tr>
<tr>
<td>170</td>
<td>Injury-related Concussion and Intracranial Injury</td>
<td>Injury-related Concussion and Intracranial Injury</td>
</tr>
<tr>
<td>175</td>
<td>Injury-related Fractures of Upper Limb and Foot</td>
<td>Injury-related Fracture of Shoulder, Upper Limb and Hand</td>
</tr>
<tr>
<td>178</td>
<td>Injury-related Open Wounds to Head, Neck, or Trunk</td>
<td>Injury-related Wounds to Head, Neck, or Trunk</td>
</tr>
<tr>
<td>181</td>
<td>Injury-related Vertebral and Spinal Cord Injury</td>
<td>Vertebral Fracture and Spinal Cord Injury</td>
</tr>
<tr>
<td>198</td>
<td>Osteoporosis and Pathological Fracture</td>
<td>Osteoporosis, Stress and Pathological Fracture</td>
</tr>
<tr>
<td>Code</td>
<td>Version 1.0/1.1 Cluster Name</td>
<td>Version 2.0 Cluster Name</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>237</td>
<td>Poisoning by Agents Other Than Medications</td>
<td>Toxic Effects of Agents Other Than Medications</td>
</tr>
<tr>
<td>238</td>
<td>Poisoning by Medications</td>
<td>Poisoning or Adverse Effects by Medications</td>
</tr>
<tr>
<td>248</td>
<td>Sexually Transmitted diseases (including HIV)</td>
<td>Sexually-transmitted Infections</td>
</tr>
<tr>
<td>269</td>
<td>Uterus, Ovarian, and Cervix Cancer</td>
<td>Female Reproductive Organ Cancer</td>
</tr>
</tbody>
</table>

**Version 1.0/1.1 Medical Clusters Retained in Version 2.0**

The following Medical Clusters from Version 1.0/1.1 have been retained in Risk Model Version 2.0:

**Code:** Retained 1.0/1.1 Medical Clusters:

- 101 Abdominal and Thoracic Aortic Aneurysm
- 102 Abortion-related Disorders
- 104 Acute Myocardial Infarction
- 105 Acute Renal Failure
- 106 Adjustment Disorders
- 107 Alcohol-related Disorders
- 108 Anemia
- 109 Angina and Chest Pain
- 110 Anxiety Disorders
- 112 Atrial Fibrillation and Flutter
- 113 Attention Deficit-related Disorders
- 114 Bacterial Pneumonia
- 115 Benign Neoplasms
- 116 Biliary Tract Disease
- 117 Bipolar Disorders
- 118 Bone and Connective Tissue Cancer
- 119 Brain and Nervous System Cancer
- 120 Breast Cancer
## Code:  Retained 1.0/1.1 Medical Clusters:

- 121  Bronchitis and Asthma
- 122  Burns
- 123  Calculus of the Genitourinary System
- 124  Cancer of Head and Neck
- 126  Cardiac Arrhythmias and Conduction Disorders
- 127  Cardiac and Circulatory Congenital Anomalies
- 130  Chronic Kidney Disease
- 132  Coagulation and Hemostasis Disorders
- 133  Coma, Stupor, and Brain Damage
- 134  Complication of Surgical Procedure or Medical Care
- 135  Complication or Malfunction of Device, Implant, or Graft
- 136  Complications of Breast During Puerperal Period
- 138  Complications with Fetal Loss
- 140  Connective Tissue Disease
- 141  Coronary Atherosclerosis
- 142  Cystic Fibrosis
- 143  Delirium, Dementia, Amnestic, and Other Cognitive Disorders
- 144  Depressive Disorders
- 145  Developmental Disorders and Disabilities
- 146  Diabetes Mellitus and Related Disorders
- 147  Digestive Congenital Anomalies
- 148  Disorders of Mouth, Teeth, and Jaw
- 149  Disorders of the Appendix
- 150  Ear and Hearing Disorders
- 151  Eating Disorders
- 152  Epilepsy and Convulsion Disorders
- 153  Eye and Vision Disorders
- 154  Fluid and Electrolyte Disorders
- 155  Gastrointestinal Cancer
## Code: Retained 1.0/1.1 Medical Clusters:

- 156  Gastrointestinal Hemorrhage
- 157  Genitourinary Congenital Anomalies
- 158  Gout and Other Crystal Arthropathies
- 159  HIV Infection
- 160  Headache and Migraine
- 161  Heart Valve Disorders
- 162  Hemolytic Jaundice and Perinatal Jaundice
- 163  Hepatitis
- 164  Hypertensive Disease
- 166  Impulse Control Disorders
- 167  Infections of the Kidney, Bladder, and Urethra
- 168  Infective Arthritis and Osteomyelitis
- 169  Influenza
- 171  Injury-related Crushing or Internal Injury
- 172  Injury-related Femur Fractures
- 173  Injury-related Fracture of Ribs, Pelvis, and Other
- 174  Injury-related Fractures of Lower Limb and Foot
- 176  Injury-related Joint Disorders and Dislocations
- 177  Injury-related Open Wounds to Extremities
- 179  Injury-related Skull and Face Fractures
- 180  Injury-related Sprains and Strains
- 182  Intestinal Infection
- 183  Intracranial Hemorrhage
- 184  Ischemic Stroke
- 185  Liveborn
- 186  Liver Disease
- 187  Lower Gastrointestinal Disorders
- 188  Lymphatic and Hematologic Cancer
- 189  Male Genital Organ Cancer
### Code: Retained 1.0/1.1 Medical Clusters:

- 190  Meningitis and Encephalitis
- 191  Mycoses
- 192  Nephritis
- 193  Nonmalignant Breast Conditions
- 194  Nonmalignant Diseases and Disorders of Female Genital Organs
- 195  Nonmalignant Diseases and Disorders of Male Genital Organs
- 196  Normal Pregnancy and/or Delivery
- 197  Nutritional-related Disorders
- 199  Other Aftercare Needs
- 200  Other Bacterial Infection
- 201  Other Bone Disease and Musculoskeletal Deformities
- 202  Other Cardiopulmonary Disease and Structural Disorders
- 203  Other Central Nervous System Infection and Poliomyelitis
- 204  Other Congenital Anomalies
- 205  Other Endocrine, Nutritional, Metabolic, and Immunity Disorders
- 206  Other Hereditary and Degenerative Central Nervous System Disorders
- 207  Other Injuries
- 208  Other Lower Respiratory Diseases and Conditions
- 209  Other Miscellaneous Mental Health Disorders
- 210  Other Nervous System Disorders
- 211  Other Non-Cerebrovascular Aneurysm and Dissection
- 212  Other Non-Neoplastic Hematologic Disorders
- 213  Other Nontraumatic Joint Disorders
- 214  Other Occlusive or Transient Cerebrovascular Disease
- 215  Other Perinatal Conditions Affecting Newborn
- 217  Other Secondary and Unspecified Cancer
- 218  Other Skin Disorders
- 219  Other Specified Conditions Influencing Health Status
- 220  Other Superficial Injuries
**Code:** | **Retained 1.0/1.1 Medical Clusters:**
---|---
221 | Other Upper Respiratory Diseases and Conditions
222 | Other Viral Infections
223 | Other and Unspecified Circulatory Disease
224 | Other and Unspecified Diseases of the Genitourinary System
225 | Other and Unspecified Gastrointestinal Disorders
226 | Other and Unspecified Metabolic Disorders
227 | Other and Unspecified Primary Cancer
228 | Pancreatic Disorders
229 | Paralysis and Hemiplegia
230 | Parasitic and Other Infections
231 | Peripheral Nervous System Disorders
232 | Peripheral Vascular Disease
233 | Personality Disorders
234 | Phlebitis
235 | Pleurisy, Pleural Effusion, and Empyema
236 | Pneumothorax
239 | Psychogenic Disorders
242 | Respiratory Failure and Pulmonary Insufficiency
243 | Respiratory and Intrathoracic Cancer
244 | Rheumatoid and Osteoarthritis
245 | Schizophrenia and Other Psychotic Disorders
247 | Sepsis Related Conditions, Including Severe Sepsis and Shock
249 | Short Gestation, Low Birth Weight, and Fetal Growth Retardation
250 | Signs and Symptoms of Allergic Reactions
252 | Signs and Symptoms of Nausea, Vomiting, and Abdominal Pain
253 | Signs and Symptoms, and ill-defined conditions
254 | Skin Ulcers
255 | Skin and Subcutaneous Infections
256 | Skin and Subcutaneous Inflammatory Conditions
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Code: Retained 1.0/1.1 Medical Clusters:

- 257 Sleep Disorders
- 258 Socioeconomic Factors and Special Needs Influencing Care
- 259 Spondylosis and Intervertebral Disc Disorders
- 260 Substance-related Disorders
- 261 Thrombosis and Embolism
- 262 Thyroid Cancer
- 263 Thyroid Disorders
- 264 Tuberculosis
- 265 Unclassified
- 266 Upper Gastrointestinal Disorders
- 267 Upper Respiratory Infections and Conditions
- 268 Urinary Organ Cancer
- 270 Varicosities and Venous Disease
- 271 Viral and Other Pneumonia
- 272 Shock

Version 1.0/1.1 Medical Clusters Retired in Version 2.0

The following Medical Clusters have been retired and are not included in Risk Model Version 2.0

- XRA 111 Aspiration Pneumonitis
- XRA 165 Immunizations and Screening
- XRA 216 Other Screening for Suspected Conditions
- XRA 240 Radiation and Chemotherapy
- XRA 241 Rehabilitation and Device Factors Influencing Care
- XRA 246 Screening and History of Mental Health Disorders
- XRA 251 Signs and Symptoms of Malaise and Fatigue
Appendix B:
Midas Risk Model Version 2.0 Surgical Clusters

Surgical Clusters **Added** in Version 2.0

The following Surgical Clusters have been added in Risk Model Version 2.0

- 537 Plastic and Other Cosmetic Procedures
- 538 Musculoskeletal - Other Procedures Head, Facial Bone
- 539 Musculoskeletal - Other Procedures Lower Bone
- 540 Musculoskeletal - Other Procedures Upper Bone

Version 1.0/1.1 Surgical Clusters **Renamed** in Version 2.0

The following Surgical Clusters have been renamed in Risk Model Version 2.0

<table>
<thead>
<tr>
<th>Code</th>
<th>Version 1.0/1.1 Cluster Name</th>
<th>Version 2.0 Cluster Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>403</td>
<td>Aortic Resection, Replacement, or Anastomosis</td>
<td>Aortic Resection and Repair</td>
</tr>
<tr>
<td>409</td>
<td>Biopsy of Liver</td>
<td>Liver Biopsy</td>
</tr>
<tr>
<td>410</td>
<td>Blood Transfusion</td>
<td>Blood or Blood Product Transfusion</td>
</tr>
<tr>
<td>414</td>
<td>Cesarean Section</td>
<td>Obstetrics - Cesarean Section</td>
</tr>
<tr>
<td>415</td>
<td>Cholecystectomy and Common Duct Laparoscopic Procedures</td>
<td>Cholecystectomy and Common Duct Procedures - Laparoscopic</td>
</tr>
<tr>
<td>416</td>
<td>Cholecystectomy and Common Duct Procedures (Open)</td>
<td>Cholecystectomy and Common Duct Procedures - Open</td>
</tr>
<tr>
<td>427</td>
<td>Diagnostic Bronchoscopy and Biopsy of Lung and/or Bronchus</td>
<td>Bronchoscopy and Biopsy of Lung, Bronchus (Diagnostic)</td>
</tr>
<tr>
<td>428</td>
<td>Diagnostic Cardiac Catheterization; Coronary Arteriography</td>
<td>Cardiac Catheterization; Coronary Arteriography</td>
</tr>
<tr>
<td>432</td>
<td>Division of Joint Capsule, Ligament, or Cartilage</td>
<td>Musculoskeletal - Division of Joint Capsule, Ligament, or Cartilage</td>
</tr>
<tr>
<td>433</td>
<td>Embolectomy and Endarterectomy of Lower Limbs</td>
<td>Endarterectomy, Embolectomy of Lower Limbs</td>
</tr>
<tr>
<td>435</td>
<td>Excision of Skin Lesion</td>
<td>Excision, Biopsy and Debridement of Skin or Fascia</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Version 1.0/1.1 Cluster Name</th>
<th>Version 2.0 Cluster Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>444</td>
<td>Hemodialysis</td>
<td>Hemodialysis and Peritoneal Dialysis</td>
</tr>
<tr>
<td>447</td>
<td>Incision, Drainage, and/or Suture of Skin and Subcutaneous Tissue</td>
<td>Skin and Subcutaneous - Incision, Drainage, Suture</td>
</tr>
<tr>
<td>448</td>
<td>Inguinal and Femoral Hernia Repair</td>
<td>Hernia Repair</td>
</tr>
<tr>
<td>449</td>
<td>Injections, Aspirations of Muscles, Tendons, Bursa, Joints, Soft Tissue</td>
<td>Musculoskeletal - Drainage or Injection</td>
</tr>
<tr>
<td>452</td>
<td>Insertion/Revision/Replacement/Removal Cardiac Pacemkr/Cardiovert/Defib</td>
<td>Cardioversion, Defibrillation and Pacing</td>
</tr>
<tr>
<td>453</td>
<td>Kidney Transplant</td>
<td>Organ Transplant</td>
</tr>
<tr>
<td>458</td>
<td>Lumpectomy, Quadrantectomy of Breast</td>
<td>Breast - Lumpectomy, Quadrantectomy</td>
</tr>
<tr>
<td>459</td>
<td>Mastectomy</td>
<td>Breast - Mastectomy</td>
</tr>
<tr>
<td>462</td>
<td>Nephrotomy and Nephrostomy</td>
<td>Nephrotomy, Nephrostomy and Lithotripsy of the Kidney</td>
</tr>
<tr>
<td>465</td>
<td>Other Diagnostic Cardiovascular Procedures</td>
<td>Circulatory - Other Diagnostic Procedures</td>
</tr>
<tr>
<td>466</td>
<td>Other Diagnostic Nervous System Biopsies and Procedures</td>
<td>Nervous System - Other Diagnostic Procedures</td>
</tr>
<tr>
<td>468</td>
<td>Other Diagnostic Procedures of Respiratory Tract and Mediastinum</td>
<td>Respiratory and Mediastinum - Other Diagnostic Procedures</td>
</tr>
<tr>
<td>469</td>
<td>Other Diagnostic Procedures on Musculoskeletal System</td>
<td>Musculoskeletal - Other Diagnostic Procedures</td>
</tr>
<tr>
<td>470</td>
<td>Other Diagnostic Radiology and Related Techniques</td>
<td>Radiology and Related Techniques</td>
</tr>
<tr>
<td>473</td>
<td>Other Fracture and Dislocation Procedure</td>
<td>Musculoskeletal - Other Fracture and Dislocation Procedures</td>
</tr>
<tr>
<td>474</td>
<td>Other Gastrointestinal Diagnostic Procedures</td>
<td>Gastrointestinal - Other Diagnostic Procedures</td>
</tr>
<tr>
<td>475</td>
<td>Other Heart Procedures Performed in the O.R.</td>
<td>Heart - Other Procedures Performed in the O.R.</td>
</tr>
<tr>
<td>476</td>
<td>Other Hemic and Lymphatic Procedures</td>
<td>Hemic and Lymphatic - Other Procedures</td>
</tr>
<tr>
<td>478</td>
<td>Other Hysterectomy</td>
<td>Hysterectomy</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Version 1.0/1.1 Cluster Name</th>
<th>Version 2.0 Cluster Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>481</td>
<td>Other Muscle and Tendon Procedures</td>
<td>Musculoskeletal - Muscle and Tendon - Other Procedures</td>
</tr>
<tr>
<td>482</td>
<td>Other O.R. Gastrointestinal Therapeutic Procedures</td>
<td>Gastrointestinal - Other Procedures</td>
</tr>
<tr>
<td>483</td>
<td>Other O.R. Lower GI Therapeutic Procedures</td>
<td>Gastrointestinal, Lower - Other Procedures</td>
</tr>
<tr>
<td>484</td>
<td>Other O.R. Procedures of Blood Vessels</td>
<td>Blood Vessels - Other Procedures</td>
</tr>
<tr>
<td>485</td>
<td>Other O.R. Procedures on Vessels of Head and Neck</td>
<td>Vessels of Head and Neck - Other Procedures</td>
</tr>
<tr>
<td>486</td>
<td>Other O.R. Therapeutic Procedures - Female Organs</td>
<td>Other Gynecological Procedures</td>
</tr>
<tr>
<td>487</td>
<td>Other O.R. Therapeutic Procedures - Male Genital</td>
<td>Male Organs - Other Procedures</td>
</tr>
<tr>
<td>488</td>
<td>Other O.R. Therapeutic Procedures of Urinary Tract</td>
<td>Urinary System - Other Procedures</td>
</tr>
<tr>
<td>490</td>
<td>Other O.R. Therapeutic Procedures on Joints</td>
<td>Musculoskeletal - Other Procedures on Joints</td>
</tr>
<tr>
<td>491</td>
<td>Other O.R. Therapeutic Procedures on Musculoskeletal System</td>
<td>Musculoskeletal - Other Procedures</td>
</tr>
<tr>
<td>492</td>
<td>Other O.R. Therapeutic Procedures on Skin and Breast</td>
<td>Skin, Fascia and Breast - Other Procedures</td>
</tr>
<tr>
<td>493</td>
<td>Other O.R. Upper GI Therapeutic Procedures</td>
<td>Gastrointestinal, Upper - Other Procedures</td>
</tr>
<tr>
<td>498</td>
<td>Other Therapeutic Ear Procedures</td>
<td>Ear and Sinus - Other Procedures</td>
</tr>
<tr>
<td>499</td>
<td>Other Therapeutic Endocrine Procedures</td>
<td>Endocrine - Other Procedures</td>
</tr>
<tr>
<td>500</td>
<td>Other Therapeutic Nervous System Procedures Performed in O.R.</td>
<td>Nervous System - Other Procedures</td>
</tr>
<tr>
<td>501</td>
<td>Other Therapeutic Obstetrical Procedures</td>
<td>Obstetrics - Other Procedures</td>
</tr>
<tr>
<td>503</td>
<td>Other Therapeutic Procedures on Eyelids, Conjunctiva, Cornea</td>
<td>Eye and Ocular Procedures</td>
</tr>
<tr>
<td>504</td>
<td>Other Therapeutic Procedures on Nose, Mouth, Pharynx Performed in O.R.</td>
<td>Nose, Mouth and Throat Procedures</td>
</tr>
</tbody>
</table>
For the latest release notes, log in to the Clients Only area in [www.midasplus.com](http://www.midasplus.com).

<table>
<thead>
<tr>
<th>Code</th>
<th>Version 1.0/1.1 Cluster Name</th>
<th>Version 2.0 Cluster Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>505</td>
<td>Other Therapeutic Procedures on Respiratory System Performed in O.R.</td>
<td>Respiratory and Mediastinum Procedures</td>
</tr>
<tr>
<td>506</td>
<td>Other Vascular Bypass and Shunt, Not Heart</td>
<td>Vascular Bypass, Not Heart</td>
</tr>
<tr>
<td>509</td>
<td>Other Non-O.R. Therapeutic Cardiovascular Procedures</td>
<td>Coronary and Vascular - Other Procedures</td>
</tr>
<tr>
<td>512</td>
<td>Partial Excision Bone</td>
<td>Musculoskeletal - Partial Excision Bone</td>
</tr>
<tr>
<td>513</td>
<td>Percutaneous Transluminal Coronary Angioplasty (PTCA)</td>
<td>Percutaneous Transluminal Coronary Angioplasty (PTCA) and Coronary Atherectomy</td>
</tr>
<tr>
<td>514</td>
<td>Peripheral Vascular Bypass</td>
<td>Vascular Bypass, Peripheral</td>
</tr>
<tr>
<td>516</td>
<td>Procedures on Spleen</td>
<td>Spleen Procedures</td>
</tr>
<tr>
<td>520</td>
<td>Respiratory Intubation and Mechanical Ventilation</td>
<td>Intubation and Mechanical Ventilation</td>
</tr>
<tr>
<td>528</td>
<td>Transurethral Resection of Prostate (TURP)</td>
<td>Prostatectomy</td>
</tr>
<tr>
<td>529</td>
<td>Treatment Facial Fracture or Dislocation</td>
<td>Musculoskeletal - Facial Fracture or Dislocation Procedures</td>
</tr>
<tr>
<td>530</td>
<td>Treatment Fracture or Dislocation of Hip and Femur</td>
<td>Musculoskeletal - Fracture or Dislocation of Hip, Femur Procedures</td>
</tr>
<tr>
<td>531</td>
<td>Treatment Fracture or Dislocation of Lower Extremity (Not Hip or Femur)</td>
<td>Musculoskeletal - Fracture or Dislocation of Lower Extremity (Not Hip or Femur) Procedures</td>
</tr>
<tr>
<td>532</td>
<td>Treatment Fracture or Dislocation of Radius and Ulna</td>
<td>Musculoskeletal - Fracture or Dislocation of Upper Limb Procedures</td>
</tr>
</tbody>
</table>

**Version 1.0/1.1 Surgical Clusters Retained in Version 2.0**

The following Surgical Clusters from Version 1.0/1.1 have been retained in Version 2.0

**Code:** Retained 1.0/1.1 Surgical Clusters:
- 401 Abdominal Paracentesis
- 402 Amputation of Lower Extremity
Code: Retained 1.0/1.1 Surgical Clusters:

- 404 Appendectomy
- 405 Arthroplasty Other Than Hip or Knee
- 406 Arthroplasty Procedures of Hip
- 407 Arthroplasty Procedures of Knee
- 412 Cardiac Stress Tests, EKGs, and Electrographic Monitoring
- 413 Carpal Tunnel Release and Decompression of Peripheral Nerve
- 417 Colonoscopy, Proctoscopy, and Biopsy Procedures
- 418 Colorectal Resection
- 419 Colostomy Procedures
- 421 Coronary Artery Bypass Graft and Revascularization Procedures
- 422 Craniotomy and Craniectomy
- 424 Cystoscopy and Other Transurethral Procedures
- 426 Dental Procedures
- 434 Endarterectomy of Vessel of Head and Neck
- 436 Incision, Lysis of Peritoneal Adhesions
- 437 Exploratory Laparotomy
- 439 Gastrectomy
- 442 Heart Valve Procedures
- 446 Ileostomy and Other Enterostomy Procedures
- 451 Insertion, Replacement, or Removal of Extracranial Ventricular Shunt
- 454 Laminectomy, Excision of Intervertebral Disc
- 457 Lobectomy or Pneumonectomy
- 460 Miscellaneous Diagnostic and Therapeutic Procedures
- 461 Nephrectomy
- 521 Skin Graft
- 522 Small Bowel Resection
- 523 Spinal Fusion
- 524 Thoracentesis and/or Open or Closed Chest Drainage
## Code: Retained 1.0/1.1 Surgical Clusters:

- 525  Thyroidectomy, Partial or Complete
- 526  Tonsillectomy and/or Adenoidectomy

## Version 1.0/1.1 Surgical Clusters Retired in Version 2.0

The following Surgical Clusters have been retired. These clusters have been end-dated (before 10/2015). The table below describes where these cases will now be found in Version 2.0 MRA clusters.

<table>
<thead>
<tr>
<th>Retired 1.0 /1.1 XRA Cluster</th>
<th>2.0 MRA Cluster (where similar cases will be found)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>XRA 400 Abdominal Hysterectomy</td>
<td>MRA 478 Hysterectomy</td>
<td>New cluster combines both vaginal and abdominal procedures</td>
</tr>
<tr>
<td>XRA 408 Arthroscopy</td>
<td>MRA 469 Musculoskeletal - Other Diagnostic Procedures</td>
<td>XRA 408 was retired due to extreme low volumes of inpatients with these primary procedure codes. Majority of patients undergoing these procedures will be outpatient or these codes will be secondary codes.</td>
</tr>
<tr>
<td>XRA 411 Bone Marrow Transplant</td>
<td>MRA 476 Hemic and Lymphatic - Other Procedures</td>
<td>Retired due to having no cases with a principle diagnosis. Moved 88 codes.</td>
</tr>
<tr>
<td>XRA 420 Conversion of Cardiac Rhythm</td>
<td>MRA 452 Cardioversion, Defibrillation and Pacing</td>
<td>Retired due to only having one code and because it was a better fit in MRA 452.</td>
</tr>
<tr>
<td>XRA 423 Creation/Revision/Removal Arterioven Fistula or Vessel-Vessel Cannula</td>
<td></td>
<td>Retired because there were zero ICD-10 codes in this cluster.</td>
</tr>
<tr>
<td>XRA 425 Debridement of Wound, Infection, or Burn</td>
<td></td>
<td>Cluster is retired. PCS doesn’t specify if these debridements are repairs of wounds, infections or burns and there were therefore no ICD-10 codes.</td>
</tr>
<tr>
<td>XRA 429 Diagnostic Ultrasound</td>
<td>MRA 470 Radiology and Related Techniques</td>
<td>Combined radiology clusters. Moved 242 codes.</td>
</tr>
<tr>
<td>Retired 1.0 / 1.1 XRA Cluster</td>
<td>2.0 MRA Cluster (where similar cases will be found)</td>
<td>Comments</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>XRA 430 Diagnostic and Therapeutic Radioisotopic Procedures</td>
<td>MRA 470 Radiology and Related Techniques</td>
<td>Combined radiology clusters. Moved all codes to MRA 470.</td>
</tr>
<tr>
<td>XRA 431 Dilatation and Curettage (D&amp;C)</td>
<td>MRA 486 Other Gynecological Procedures</td>
<td>Combined some gynecology clusters.</td>
</tr>
<tr>
<td>XRA 438 Extracorporeal Circulation Auxiliary to Open Heart Procedures</td>
<td>MRA 452 Cardioversion, Defibrillation and Pacing MRA 475 Heart - Other Procedures Performed in the O.R.</td>
<td>Cluster is retired. Moved 3 codes to MRA 452. Moved 1 code to MRA 475</td>
</tr>
<tr>
<td>XRA 440 Gastrostomy Procedures</td>
<td>MRA 493 Gastrointestinal, Upper - Other Procedures</td>
<td>Cluster is retired due to low volume. Moved 16 codes.</td>
</tr>
<tr>
<td>XRA 441 Genitourinary Incontinence Procedures</td>
<td>MRA 488 Urinary System - Other Procedures</td>
<td>Cluster is retired. Moved 12 codes.</td>
</tr>
<tr>
<td>XRA 443 Heart and/or Lung Transplant</td>
<td>MRA 453 Organ Transplant</td>
<td>Merged the codes from this cluster with the codes in the kidney transplant cluster and renamed it &quot;Organ Transplant&quot;.</td>
</tr>
<tr>
<td>XRA 445 Hemorrhoid Procedures</td>
<td>MRA 483 Gastrointestinal, Lower - Other Procedures</td>
<td>Cluster is retired due to low volume. Moved 6 codes.</td>
</tr>
<tr>
<td>XRA 450 Insertion Catheter/Spinal Stimulator &amp; Injection into Spinal Canal</td>
<td>MRA 500 Nervous System - Other Procedures</td>
<td>Cluster is retired. Moved 45 codes.</td>
</tr>
<tr>
<td>XRA 455 Laparoscopy</td>
<td>MRA 474 Gastrointestinal – Other Diagnostic Procedures MRA 417 Colonoscopy, Proctoscopy, and Biopsy Procedures</td>
<td>Cluster is retired. Moved 3 codes to MRA 474 and 1 code to MRA 417.</td>
</tr>
<tr>
<td>XRA 456 Ligation of Fallopian Tubes</td>
<td>MRA 486 Other Gynecological Procedures</td>
<td>Retired due to the lack of clinical need to separate fallopian tubes from other female organ procedures. Moved 39 codes.</td>
</tr>
<tr>
<td>XRA 463 Oophorectomy, Unilateral and Bilateral</td>
<td>MRA 486 Other Gynecological Procedures</td>
<td>Retired due to the lack of clinical need to separate oophorectomies from other female organ procedures. Moved 15 codes.</td>
</tr>
<tr>
<td>Retired 1.0 /1.1 XRA Cluster</td>
<td>2.0 MRA Cluster (where similar cases will be found)</td>
<td>Comments</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>XRA 464 Open Prostatectomy</td>
<td>MRA 528 Prostatectomy</td>
<td>Merged prostatectomy clusters. Moved 8 codes.</td>
</tr>
<tr>
<td>XRA 467 Other Diagnostic Procedures on Female Organs</td>
<td>MRA 486 Other Gynecological Procedures</td>
<td>Cluster is retired due to merging most female organ procedures into one cluster. Moved 220 codes.</td>
</tr>
<tr>
<td>XRA 471 Other Excision of Cervix and Uterus</td>
<td>MRA 486 Other Gynecological Procedures MRA 478 Hysterectomy</td>
<td>Cluster is retired. Moved 33 codes to MRA 486 and 4 codes to MRA 478.</td>
</tr>
<tr>
<td>XRA 472 Other Extraocular Muscle and Orbit Therapeutic Procedures</td>
<td>MRA 503 Eye and Ocular Procedures</td>
<td>Cluster is retired due to low volume because mainly outpatient procedures. Moved 230 codes.</td>
</tr>
<tr>
<td>XRA 477 Other Hernia Repair</td>
<td>MRA 448 Hernia Repair</td>
<td>Cluster is retired to create a more clinically homogeneous cluster. Moved 12 codes to renamed cluster.</td>
</tr>
<tr>
<td>XRA 479 Other Incision and Excision of Central Nervous System</td>
<td>MRA 500 Nervous System - Other Procedures</td>
<td>Retired due to merge of nervous system clusters. 331 codes moved.</td>
</tr>
<tr>
<td>XRA 480 Other Intraocular Therapeutic Procedures</td>
<td>MRA 503 Eye and Ocular Procedures</td>
<td>Merged these codes with other eye cluster. Moved 193 codes.</td>
</tr>
<tr>
<td>XRA 489 Other O.R. Therapeutic Procedures on Bone</td>
<td>MRA 538 Musculoskeletal - Other Procedures Head, Facial Bone MRA 539 Musculoskeletal - Other Procedures Lower Bone MRA 540 Musculoskeletal - Other Procedures Upper Bone MRA 422 Craniotomy and Craniectomy MRA 537 Plastic and Other Cosmetic Procedures</td>
<td>Cluster is retired due to having too many codes (4564). 1101 codes moved to MRA 538. 1653 codes moved to MRA 539. 1759 codes moved to MRA 540. 3 codes to MRA 422. 48 codes moved to MRA 537.</td>
</tr>
<tr>
<td>XRA 494 Other Operations on Fallopian Tubes</td>
<td>MRA 486 Other Gynecological Procedures</td>
<td>Cluster retired due to the lack of clinical need to separate fallopian tubes from other female organ procedures. Moved 337 codes.</td>
</tr>
</tbody>
</table>
### Retired 1.0 / 1.1 XRA Cluster

### 2.0 MRA Cluster (where similar cases will be found)

### Comments

<table>
<thead>
<tr>
<th>Retired 1.0 / 1.1 XRA Cluster</th>
<th>2.0 MRA Cluster</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>XRA 495 Other Operations on Ovary</td>
<td>MRA 486 Other Gynecological Procedures</td>
<td>Cluster retired due to the lack of clinical need to separate ovary operations from other female organ procedures. Moved 111 codes.</td>
</tr>
<tr>
<td>XRA 496 Other Organ Transplant</td>
<td>MRA 453 Organ Transplant</td>
<td>Retired this cluster due to merging all organ transplants into a new combined cluster. Moved 40 codes.</td>
</tr>
<tr>
<td>XRA 497 Other Procedures to Assist Delivery</td>
<td>MRA 501 Obstetrics - Other Procedures</td>
<td>Cluster is retired because there were codes included in this cluster that could be present in a non-delivery situation, and because this cluster was very small. Moved 11 codes.</td>
</tr>
<tr>
<td>XRA 502 Other Therapeutic Procedures</td>
<td>Distributed across 18 new clusters</td>
<td>Cluster is retired. Codes were moved to 18 various clusters. 1183 codes were placed in clusters that were a better fit. 1797 codes were moved to MRA 460 some of which were moved because they did not require incisions. 4 codes were moved to MRA 492.</td>
</tr>
<tr>
<td>XRA 507 Other Non-O.R. Gastrointestinal Therapeutic Procedures</td>
<td>MRA 470 Radiology and Related Techniques MRA 482 Gastrointestinal - Other Procedures</td>
<td>Moved 351 codes. 9 to MRA 470 and 342 to MRA 482.</td>
</tr>
<tr>
<td>XRA 508 Other Non-O.R. Lower GI Therapeutic Procedures</td>
<td>MRA 417 Colonoscopy, Proctoscopy, and Biopsy Procedures MRA 418 Colorectal Resection MRA 483 Gastrointestinal, Lower - Other Procedures</td>
<td>Moved 229 codes. Moved 9 codes to MRA 417 Moved 24 codes to MRA 418 Moved 196 codes to MRA 483</td>
</tr>
<tr>
<td>XRA 510 Other Non-O.R. Therapeutic Procedures on Skin and Breast</td>
<td>MRA 435 Excision, Biopsy and Debridement of Skin or Fascia MRA 470 Radiology and Related Techniques</td>
<td>Moved 625 codes. Moved 27 codes to MRA 435. Moved 30 codes to MRA 470.</td>
</tr>
</tbody>
</table>
## Retired 1.0 / 1.1 XRA Cluster

<table>
<thead>
<tr>
<th>Retired 1.0 / 1.1 XRA Cluster</th>
<th>2.0 MRA Cluster (where similar cases will be found)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>XRA 511 Other Non-O.R. Upper GI Therapeutic Procedures</td>
<td>MRA 493 Gastrointestinal, Upper - Other Procedures</td>
<td>Moved 568 codes to MRA 492.</td>
</tr>
<tr>
<td>XRA 515 Plastic Procedures on Nose</td>
<td>MRA 537 Plastic and Other Cosmetic Procedures</td>
<td>134 codes moved.</td>
</tr>
<tr>
<td>XRA 517 Procedures on the Urethra</td>
<td>MRA 488 Urinary System - Other Procedures MRA 501 - Obstetrics - Other Procedures</td>
<td>Cluster is retired due to low volumes. Moved 53 codes.</td>
</tr>
<tr>
<td>XRA 518 Repair of Cystocele and Rectocele, Obliteration of Vaginal Vault</td>
<td>MRA 486 Other Gynecological Procedures</td>
<td>Cluster is retired due to merging gynecological clusters. Moved 4 codes.</td>
</tr>
<tr>
<td>XRA 519 Repair of Obstetric Laceration</td>
<td></td>
<td>Cluster is retired. There were no ICD-10 codes to move.</td>
</tr>
<tr>
<td>XRA 527 Tracheostomy, Temporal and Permanent</td>
<td>MRA 468 Respiratory and Medistinum - Other Diagnostic Procedures MRA 505 Respiratory and Medistinum Procedures</td>
<td>Retired because after removing all of the non-tracheostomy related codes, we had zero volume due to them being non-principle codes. Moved 40 codes to MRA 468. Moved 42 codes to MRA 505.</td>
</tr>
<tr>
<td>XRA 533 Tympanoplasty and Myringtomy</td>
<td>MRA 498 Ear and Sinus - Other Procedures</td>
<td>Cluster is retired due to merging all ear codes to an ear and sinus cluster. Moved 78 codes.</td>
</tr>
<tr>
<td>XRA 534 Upper Gastrointestinal Endoscopy, Biopsy</td>
<td>MRA 417 Colonoscopy, Proctoscopy, and Biopsy Procedures MRA 474 Gastrointestinal - Other Diagnostic Procedures</td>
<td>Cluster is retired to create a more homogeneous risk group. Moved 9 codes to MRA 417. Moved 32 codes to MRA 474.</td>
</tr>
<tr>
<td>XRA 535 Vaginal Hysterectomy</td>
<td></td>
<td>New cluster combines both vaginal and abdominal procedures.</td>
</tr>
<tr>
<td>XRA 536 Vascular Catheterization</td>
<td>MRA 484 Blood Vessels - Other Procedures</td>
<td>Cluster is retired. 248 codes moved.</td>
</tr>
</tbody>
</table>
Appendix C:  
Midas Risk Model Version 2.0 Complications

Complications *Added* in Version 2.0

The following Complications have been added in Risk Model Version 2.0.

<table>
<thead>
<tr>
<th>Code</th>
<th>Added Complication Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>563</td>
<td>Acid-base imbalance</td>
</tr>
<tr>
<td>564</td>
<td>Acute and sub-acute hepatic failure</td>
</tr>
<tr>
<td>565</td>
<td>Acute pancreatitis, unspecified</td>
</tr>
<tr>
<td>566</td>
<td>Acute posthemorrhagic anemia</td>
</tr>
<tr>
<td>567</td>
<td>Acute pulmonary edema</td>
</tr>
<tr>
<td>568</td>
<td>Acute respiratory distress syndrome</td>
</tr>
<tr>
<td>569</td>
<td>Adrenocortical insufficiencies</td>
</tr>
<tr>
<td>570</td>
<td>Anoxic Brain Damage, not elsewhere classified</td>
</tr>
<tr>
<td>571</td>
<td>Aphasia</td>
</tr>
<tr>
<td>572</td>
<td>Apnea of newborn</td>
</tr>
<tr>
<td>573</td>
<td>Atelectasis</td>
</tr>
<tr>
<td>574</td>
<td>Atrial fibrillation/flutter</td>
</tr>
<tr>
<td>575</td>
<td>Bacteremia</td>
</tr>
<tr>
<td>576</td>
<td>Bloodstream infection due to central venous catheter</td>
</tr>
<tr>
<td>577</td>
<td>Brain death</td>
</tr>
<tr>
<td>578</td>
<td>Candidal infection</td>
</tr>
<tr>
<td>579</td>
<td>Cardiac arrest, procedure related</td>
</tr>
<tr>
<td>580</td>
<td>Cardiac or vascular device or graft complication</td>
</tr>
<tr>
<td>581</td>
<td>Cardiac procedure complication</td>
</tr>
<tr>
<td>582</td>
<td>Cardiac tamponade</td>
</tr>
<tr>
<td>583</td>
<td>Cellulitis</td>
</tr>
<tr>
<td>584</td>
<td>Cerebral compression and edema</td>
</tr>
<tr>
<td>585</td>
<td>Cerebral infarction</td>
</tr>
<tr>
<td>586</td>
<td>Coagulation defect, unspecified</td>
</tr>
<tr>
<td>587</td>
<td>Coma</td>
</tr>
</tbody>
</table>
Code: Added Complication Name:

- 588 Critical illness myopathy
- 589 Delirium due to known physiological condition
- 590 Disseminated intravascular coagulation
- 591 Encephalopathy
- 592 Endometritis following delivery
- 593 Enterocolitis due to Clostridium difficile
- 594 Food or foreign object causing asphyxiation
- 595 Gastrointestinal hemorrhage
- 596 Gastrointestinal system procedure complication
- 597 Genitourinary system procedure complication
- 598 Hallucinations, unspecified
- 599 Heart failure, acute
- 600 Hemiplegia
- 601 Hemoperitoneum
- 602 Hemorrhage or skin hematoma, procedure complication
- 603 Hemothorax
- 604 Hydronephrosis
- 605 Ileus
- 606 Infection following a procedure
- 607 Intestinal obstruction
- 608 Intestinal perforation
- 609 Ischemic heart disease, acute
- 610 Kidney failure, acute
- 611 Musculoskeletal system procedure complication
- 612 Nervous system procedure complication
- 613 Non-ST elevation (NSTEMI) myocardial infarction
- 614 Nontraumatic cerebral hemorrhage
- 615 Obstetric injury pelvis
- 616 Obstetrical hemorrhage
- 617 Osmolality and natremia imbalance
### Code: Added Complication Name:

- 618 Ostomy complication
- 619 Pancytopenia, drug-induced
- 620 Pericardial effusion (noninflammatory)
- 621 Perineal and obstetrical lacerations
- 622 Peritoneal abscess and peritonitis
- 623 Pleural effusion
- 624 Pneumonia, bacterial and unspecified
- 625 Pneumonitis
- 626 Pneumothorax and air leak
- 627 Protein-calorie malnutrition
- 628 Pulmonary embolism
- 629 Respiratory and cardiac arrest
- 630 Respiratory failure
- 631 Respiratory system procedure complication
- 632 Rhabdomyolysis
- 633 Sepsis
- 634 Sepsis, newborn
- 635 Severe sepsis with septic shock
- 636 Severe sepsis without septic shock
- 637 Shock, cardiogenic
- 638 Shock, hypovolemic and other
- 639 Shock, postprocedural
- 640 ST elevation (STEMI) myocardial infarction
- 641 Supraventricular tachycardia
- 642 Surgical wound dehiscence
- 643 Toxic gastroenteritis and colitis
- 644 Transient cerebral ischemic attack
- 645 Urinary tract infection
- 646 Venous embolism and thrombosis, acute
- 647 Ventilator-associated pneumonia
Code:  Added Complication Name:
- 648  Ventricular fibrillation/flutter
- 649  Ventricular tachycardia

Version 1.0/1.1 Complications Retired in Version 2.0

The following Complications have been retired and are not included in Risk Model Version 2.0

Code:  Retired Complication Name:
- 400  Abnormal Reaction to Artificial Implant, Surgical Operation
- 401  Abnormal Reaction, Other Specified Procedure
- 402  Abnormal Reaction, Surgical Operation, with External Stoma
- 403  Acidosis
- 404  Acute and Subacute Forms of Ischemic Heart Disease NEC
- 405  Acute Myocardial Infarction NOS, Initial
- 406  Adverse Effect, Anticoagulants
- 407  Adverse Effect, Antineoplastic/Immunosuppressive Drugs
- 408  Adverse Effects, Other Drugs/Medicinal Substances
- 409  Alcohol Withdrawal Delirium
- 410  Alkalosis
- 411  Anemia of Prematurity
- 412  Anemia/Other Chronic Disease
- 413  Anorexia
- 414  Anoxic Brain Damage
- 415  Ascites NEC
- 416  Bacteremia
- 417  Bronchitis NOS
- 418  Bronchitis, Acute
- 419  Candidiasis Urogenital NEC
- 420  Candidiasis, Other NEC
- 421  Candidiasis, Skin and Nails
### Code: Retired Complication Name:

- **422** Cardiac Arrest
- **423** Cardiac Dysrhythmias NEC
- **424** Cardiac Murmurs NEC
- **425** Cerebral Artery Occlusion NOS with Cerebral Infarction
- **426** Cerebral Embolism with Cerebral Infarction
- **427** Cerebral Ischemia, Transient NOS
- **428** Coagulation Defects NEC/NOS
- **429** Coagulation Profile, Normal
- **430** Coma
- **431** Complication, Mechanical, Other Vascular Device/Implant/Graft
- **432** Complications of Medical Care, Other NOS, NEC
- **433** Complications of Procedures, Other Specified, NEC
- **434** Complications, Other Due to Other Vascular Device/Implant/Graft
- **435** Conjunctivitis NOS
- **436** Convulsions NEC
- **437** Critical Illness Myopathy
- **438** Debility NOS
- **439** Defibrillation Syndrome
- **440** Depressive Disorder NEC
- **441** Diaper or Napkin Rash
- **442** Diseases of Trachea and Bronchus NEC
- **443** Disorders of Plasma-protein Metabolism NEC
- **444** Disruption, Operation Wound, External
- **445** Disruption, Operation Wound, Internal
- **446** DVT/Embolism, Acute, Axillary Veins
- **447** DVT/Embolism, Acute, Deep Veins, Upper Extremity
- **448** DVT/Embolism, Acute, Deep Vessels, Distal Lower Extremity
- **449** DVT/Embolism, Acute, Deep Vessels, Lower Extremity
- **450** DVT/Embolism, Acute, Deep Vessels, Proximal Lower Extremity
- **451** DVT/Embolism, Acute, Subclavian Veins
<table>
<thead>
<tr>
<th>Code</th>
<th>Retired Complication Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>452</td>
<td>DVT/Embolism, Acute, Superficial Veins, Upper Extremity</td>
</tr>
<tr>
<td>453</td>
<td>Dysphagia NOS</td>
</tr>
<tr>
<td>454</td>
<td>Dysphagia, Oropharyngeal Phase</td>
</tr>
<tr>
<td>455</td>
<td>Effusion NEC, except Tuberculosis</td>
</tr>
<tr>
<td>456</td>
<td>Electrolyte and Fluid Disorders NEC</td>
</tr>
<tr>
<td>457</td>
<td>Elevation of Transluminase or LDH</td>
</tr>
<tr>
<td>458</td>
<td>Encephalopathy, Hepatic</td>
</tr>
<tr>
<td>459</td>
<td>Encephalopathy, Metabolic</td>
</tr>
<tr>
<td>460</td>
<td>Encephalopathy, Other</td>
</tr>
<tr>
<td>461</td>
<td>Encephalopathy, Unspecified</td>
</tr>
<tr>
<td>462</td>
<td>End-stage Renal Disease</td>
</tr>
<tr>
<td>463</td>
<td>Esophageal Reflux</td>
</tr>
<tr>
<td>464</td>
<td>Flatulence, Eruetation, and Gas Pain</td>
</tr>
<tr>
<td>465</td>
<td>Foreign Body Accidentally Entering Other Orifice</td>
</tr>
<tr>
<td>466</td>
<td>Foreign Body in Larynx</td>
</tr>
<tr>
<td>467</td>
<td>Foreign Body, Bronchus/Lung NEC</td>
</tr>
<tr>
<td>468</td>
<td>Gastritis and Gastroduodenitis, NOS, without Hemorrhage</td>
</tr>
<tr>
<td>469</td>
<td>Glucocorticoid Deficient</td>
</tr>
<tr>
<td>470</td>
<td>Gross Hematuria</td>
</tr>
<tr>
<td>471</td>
<td>Heart Failure, Diastolic NOS</td>
</tr>
<tr>
<td>472</td>
<td>Hematemesis</td>
</tr>
<tr>
<td>474</td>
<td>Hemoptyisis NOS</td>
</tr>
<tr>
<td>475</td>
<td>Intraop/Post Procedural Hemorrhage/Hematoma</td>
</tr>
<tr>
<td>476</td>
<td>Hemorrhage NOS</td>
</tr>
<tr>
<td>477</td>
<td>Hemorrhage, Gastrointestinal NOS</td>
</tr>
<tr>
<td>478</td>
<td>Heparin-induced Thrombocytopenia</td>
</tr>
<tr>
<td>479</td>
<td>Hydronephrosis</td>
</tr>
<tr>
<td>480</td>
<td>Hypercalcemia</td>
</tr>
<tr>
<td>481</td>
<td>Hyperosmolarity and/or Hypernatremia</td>
</tr>
<tr>
<td>482</td>
<td>Hyperpotassemia</td>
</tr>
</tbody>
</table>
Code: Retired Complication Name:
- 483 Hypertension NOS
- 484 Hypocalcemia
- 485 Hypoglycemia NOS
- 486 Infection, Bloodstream, Due to Central Venous Catheter
- 487 Infection, Enterococcus Group D
- 488 Infection, Intestinal, Due to Clostridium difficile
- 489 Infection, Pseudomonas, Other NOS
- 490 Infection, Staphylococcus, Other NOS
- 491 Infection/Inflammatory Reaction Due to Indwelling Urinary Catheter
- 492 Infections, Specified Bacterial, Other Gram-negative Organisms NOS
- 493 Infections, Upper Respiratory, Acute NOS
- 494 Intestinal Obstruction NOS
- 495 Intestinal Perforation
- 496 Jaundice, Not Newborn NOS
- 497 Kidney Failure, Acute with Lesion of Tubular Necrosis
- 498 Klebsiella pneumoniae
- 499 Malnutrition, Moderate Degree
- 500 Malnutrition, Protein-Calorie NOS
- 501 Malnutrition, Protein-Calorie, Other Severe
- 502 Methicillin-resistant Pneumonia Due to Staphylococcus aureus
- 503 Methicillin-resistant Staphylococcus aureus, Classified Elsewhere NOS
- 504 Methicillin-susceptible Staphylococcus aureus, Classified Elsewhere NOS
- 505 Mixed Acid-base Balance Disorder
- 506 Mycoses NEC/NOS
- 507 Necrosis of Liver, Acute and Subacute
- 508 Neonatal Bradycardia
- 509 Neonatal Candida Infection
- 510 Neonatal Electrolyte Disturbances, Transitory, Other
- 511 Neonatal Thrombocytopenia, Transient
- 512 Newborn Feeding Problems
Code: Retired Complication Name:
- 513 Newborn Septicemia [Sepsis]
- 514 Nutritional Marasmus
- 515 Oliguria and Anuria
- 516 Pain in Joint, Pelvic Region and Thigh
- 517 Pain in Joint, Shoulder Region
- 518 Pancytopenia, Other
- 519 Paroxysmal Ventricular Tachycardia
- 520 Perinatal Conditions, Other NEC
- 521 Phlebitis/Thrombophlebitis, Superficial Veins of Upper Extremities
- 522 Pleural Effusion NOS
- 523 Pneumonia Due to Klebsiella pneumoniae
- 524 Pneumonia Due to Other Gram-negative Bacteria
- 525 Pneumonia Due to Pseudomonas
- 526 Pneumonia, Organism NOS
- 527 Pneumonitis Due to Inhalation of Food or Vomitus
- 528 Pressure Ulcer, Buttock
- 529 Pressure Ulcer, Lower Back
- 530 Pressure Ulcer, Stage I
- 531 Pressure Ulcer, Stage II
- 532 Pressure Ulcer, Unspecified Stage
- 533 Pulmonary Collapse
- 534 Pulmonary Congestion and Hypostasis
- 535 Pulmonary Embolism/Infarction, Iatrogenic
- 536 Pulmonary Embolism/Infarction, Other
- 537 Pulmonary Insufficiency, Other NEC
- 538 Respiratory Arrest
- 539 Respiratory Complications, Other
- 540 Respiratory Failure Following Trauma or Surgery
- 541 Respiratory Failure, Acute
- 542 Respiratory Failure, Acute and Chronic
Code: Retired Complication Name:

- 543 Respiratory Obstruction/Suffocation Due to Inhaled/Ingested Object NEC
- 544 Rhabdomyolysis
- 545 Sepsis, Severe
- 546 Septicemia Due to Escherichia coli [E. coli]
- 547 Septicemia NOS
- 548 Septicemia, Other Due to Gram-negative Organisms
- 549 Serum Enzyme Levels, Abnormal, NEC
- 550 Shock NOS
- 551 Shock, Cardiogenic
- 552 Shock, Other, without Mention of Trauma
- 553 Shock, Postoperative, Other
- 554 Shock, Septic
- 555 Special Symptoms/Syndromes NEC/NOS
- 556 Subendocardial Infarction, Initial
- 557 Systemic Inflammatory Response Syndrome NOS
- 558 Tachypnea
- 559 Urinary Incontinence NOS
- 560 Urinary Tract Infection NOS
- 561 Ventilator-associated Pneumonia
- 562 Ventricular Fibrillation
Release Notes for Midas DataVision™ Server Application
Server Application Update for May 2017
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