

To: Hospital CFOs

Cc: Hospital Quality Liaisons, Case-Mix Liaisons

From: HSCRC Quality Team

Date: February 4, 2025

Maryland Rate Year 2027 Quality Based Reimbursement Program

Measure Standards, Scaling Determination, and other

Methodology Updates

This memo summarizes the Quality Based Reimbursement (QBR) Program that will impact hospital rates in Rate Year (RY) 2027.

INTRODUCTION

On December 11, 2024, the Commission approved the staff recommendations for updating the Quality-Based Reimbursement (QBR) **Claudine Williams** Director Program for RY 2027. Consistent with the RY 202 policy, the preset scale for RY 2027 uses a full distribution of potential scores (scale of 0-80 percent), and a score cut point of 41 percent for rewards and penalties. The recommendation also included a provision to retrospectively evaluate the 41 percent reward-penalty cut point using more recent data to calculate national average score for RY25 and RY26; staff further notes that, based on more analyses on the impact of pre-COVID performance standards on national hospital performance, the cut point for RY25 QBR requires an adjustment from 41 to 32 percent, which was implemented as part of Rate Orders released in January 2025. The maximum reward for QBR will remain at 2%, and the maximum penalty remains at 2%. The preset scale is included as Appendix A of this memorandum.

The RY 2027 Policy continues to incorporate QBR Redesign Subgroup recommendations made in 2021 and outlines strategies for future work to respond to concerns regarding Maryland's lagged performance or raised by Centers for Medicare and Medicaid Services (CMS) in

Joshua Sharfstein, MD Chairman

Joseph Antos, PhD Vice-Chairman

James N. Elliott, MD

Ricardo R. Johnson

Maulik Joshi, DrPH

Adam Kane, Esq

Nicki McCann, JD

Jonathan Kromm, PhD

Executive Director

William Henderson

Medical Economics & Data Analytics

Population-Based Methodologies

Gerard J. Schmith

Revenue & Regulation Compliance

Healthcare Data Management & Integrity

response to Maryland's annual QBR exemption requests. The changes target better performance on Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS), Emergency Department Length of Stay (ED LOS), and Timely Follow Up (TFU) disparities in the Person and Community Engagement (PCE) domain; of note, the recommendations include incentives for complete and expedited digital quality measures reporting with these measures usied for monitoring purposes in advance of future consideration for adoption in the QBR payment program.

The approved RY2027 recommendations are as follows:

- Maintain Domain Weighting as follows for determining hospitals' overall performance scores:
 Person and Community Engagement (PCE) 60 percent, Safety (NHSN measures) 30 percent,
 Clinical Care 10 percent.
 - a. Within the PCE domain, weight the measures as follows:

i.	HCAHPS Top Box:	33.33 Percent
ii.	HCAHPS Consistency:	16.67 percent
iii.	HCAHPS Linear:	16.67 percent
iv.	Timely Follow-Up for Medicare:	5.56 percent
٧.	Timely Follow-Up for Medicaid:	5.56 percent
vi.	Disparities in Timely Follow-Up for Medicare:	5.56 percent
vii.	Emergency Department Length of Stay:	16.67 percent

- b. Within the Safety domain, weight each of the measures equally (i.e., 30 percent divided by number of measures).
- c. Within the Clinical Care domain, weight the inpatient and 30-day mortality measure equally.
- 2. With regard to monitoring reports to track hospital performance:
 - a. Consider the feasibility of developing a Timely Follow-Up for Behavioral Health measure.
 - b. Disseminate Sepsis Dashboard.
 - c. Develop tools to monitor HCAHPS performance by patient and hospital characteristics.
- 3. Implement an HCAHPS learning collaborative with hospitals.
- 4. Continue collaboration with CRISP and other partners on infrastructure to collect hospital Electronic Clinical Quality Measures (eCQM) and Core Clinical Data Elements (CCDE) for hybrid measures; add a bonus incentive of \$150,000 in hospital rates for hospitals that fully meet the

- State-specified expedited reporting timeline, provided that all required measures are reported.
- 5. Continue to hold 2 percent of inpatient revenue at-risk (rewards and penalties) and maintain the pre-set revenue adjustment scale of 0 to 80 percent with cut-point at 41 percent.
 - a. Retrospectively evaluate 41 percent cut point using more recent data to calculate national average score for RY 2026 and RY 2027.
 - b. Based on concurrent analysis of national hospital performance, adjust the RY25 QBR cut point to 32% to reflect the impact of using pre-COVID performance standards and to ensure that Maryland hospitals are penalized or rewarded relative to national performance.

EXEMPTIONS FROM CMS HOSPITAL QUALITY PROGRAMS

Exemptions from the CMS hospital quality programs enable Maryland to operate programs with incremental revenue adjustment scales established prospectively, wherein all hospitals have the opportunity to earn rewards based on their performance. As required, the HSCRC has requested and received approvals for Value-Based Purchasing (VBP) exemptions since FY 2013, and for the HAC Reduction and Hospital Readmission Reduction Programs since FY 2021 (with inception of the TCOC model). CMS has approved Maryland's exemption request for the FY 2025 quality programs allowing the state to continue to operate the QBR, Maryland Hospital Acquired Conditions, and Readmission Reduction Incentive programs.

In response to the FY 2025 VBP exemption request, CMS' approval letter notes that Maryland's focus needs to continue on HCAHPS performance improvement (including disparities therein) and extended ED LOS in the PCE domain; the letter also notes that the state should continue to broaden our focus of quality assessment to post-acute care, outpatient hospital care and other non-hospital settings, the Medicaid population, and maternal child health concerns.

RY 2027 QBR Domain Weights, Measures, and Monitoring Updates

The updated final policy domain and measure weight details are provided below in Figure 1 in comparison to the CMS VBP program.

Figure 1. QBR RY 2026 Domain and Measure Weights and Data Sources

Domains and Measures	QBR Overall Domain and Measure Weights	CMS VBP Measures
PCE Domain	60%	25%
HCAHPS Top Box Scores	20%	√
HCAHPS Consistency	10%	√
HCAHPS Linear Score	10%	N/A
ED Length of Stay	10%	N/A
 TFU Medicare (CMS CCLF Claims) Medicaid (Medicaid Claims), Medicare Disparity gap CMS (CCLF Claims and HSCRC Case Mix) 	10% total (1/3 allocated for each measure)	N/A
Clinical Care Domain	10%	25%
Inpatient Mortality (HSCRC Case Mix)	5%	N/A
30-Day All-payer Mortality (HSCRC Case Mix and Maryland Vital Statistics Death Records)	5%	N/A
30-Day Medicare Condition-specific Mortality (Medicare Claims)	N/A	√
Safety Domain	30%	25%
CAUTI (Chart abstracted CMS Care Compare)	5%	✓
C. Diff (Chart abstracted CMS Care Compare)	5%	✓
SSI, Hysterectomy and Colon (Chart abstracted CMS Care Compare)	5%	√
CLABSI (Chart abstracted CMS Care Compare)	5%	✓
MRSA(Chart abstracted CMS Care Compare)	5%	✓
All-payer PSI 90 (HSCRC Case Mix)	5%	N/A
Severe Sepsis and Septic Shock: Management Bundle (Chart abstracted, CMS Care Compare)	N/A	√

Domains and Measures	QBR Overall Domain and Measure Weights	CMS VBP Measures
Medicare Spending Per Beneficiary	N/A	25%

The updated policy also notes that the following data would be monitored:

- Timely Follow-Up for Behavioral Health inpatient episode (report in development)
- Sepsis Dashboard: Sepsis mortality, Sep-1 measure—Early Management Bundle, Severe Sepsis/Septic Shock (report in development)
- Digital Measures: Electronic Clinical Quality Measures (eCQM) and Hybrid Measures.

HSCRC staff will notify hospitals as monitoring reports are implemented and available.

Digital Measures Reporting Requirements

The updated policy included a recommendation for hospitals to continue to submit digital quality measures data to HSCRC with a bonus of \$150K awarded to hospitals that fully comply with the RY 2027 measures submission and expedited reporting timelines. HSCRC and CMS require submission of QRDA I files for the eCQMs and Hybrid measure Core Clinical Data Elements (CCDE) as listed below in Figure 2. For additional information about Maryland's work in this area, please refer to the **updated memorandum issued by HSCRC February**2025 outlining CY 2025 Digital Measures reporting requirements distributed to Maryland hospitals and uploaded to the HSCRC digital quality measures data page on the CRISP website.

Figure 2. CMS-Maryland Digital Measures/ eCQM Reporting Measures

Reporting Period	CMS Measures	Maryland Measures
CY 2025	Three required eCMQsSafe Use of Opioids -Cesarean Birth -Severe Obstetric Complications (SOC) Three self-selected eCQMs	Required eCQMsSafe Use of Opioids -hypoglycemia -hyperglycemia -Cesarean Birth -SOC (risk adjusted rates in CRISPJuly 2025) Two self-selected eCQMs
July 2024- June 2025	CCDE for two hybrid measures for Medicare: -30-day mortality -30-day readmissions	CCDE for two hybrid measures for Medicare (required) and for all-payer for patients aged 18 and older: -30-day mortality -30-day readmissions
July 2025- June 2026	CCDE for two hybrid measures for Medicare: -30-day mortality -30-day readmissions	CCDE for two hybrid measures for Medicare and for all-payer for patients aged 18 and older: -30-day mortality -30-day readmissions

Hospitals that do not qualify for the (PC-02 and PC-07) obstetric measures must submit QRDA-1 files for two additional 2025 CMS-specified eCQM measures. In the case of self-selected measures, hospitals must commit to reporting the same measures for each of the four quarters in the reporting period.

QBR MEASUREMENT PERIODS

The base and performance measurement periods used for the QBR program for RY 2027 are illustrated below in Figure 3.

Figure 3. QBR RY 2027 Base and Performance Periods

Rate Year (Maryland Fiscal Year)	Q3-22	Q4-22	Q1-23	Q2-23	Q3-23	Q4-23	Q1-24	Q2-24	Q3-24	Q4-24	Q1-25	Q2-25	Q3-25	Q4-25	Q1-26	Q2-26	Q3-26	Q4-26	Q1-27	Q2-27	Q3-27	Q4-27
Calendar Year	Q1-22	Q2-22	Q3-22	Q4-22	Q1-23	Q2-23	Q3-23	Q4-23	Q1-24	Q2-24	Q3-24	Q4-24	Q1-25	Q2-25	Q3-25	Q4-25	Q1-26	Q2-26	Q3-26	Q4-26	Q1-27	Q2-27
Quality Based Reimbursement Program (QBR)					С	ompare easures	day Mo Fo Cor Medic	PS	PSI-90, p Chron (Medic w/in Ho Reduction	Timely ic are, ospital on) e Period	l .	Compa Al ency	Perfor and 30 Follow- (Medic Hospit	Period: H HPS me Measure Parance F D-day Mo Lup Chro Lare, Med Lare, Med Lar	Peirod: (prtality, l pric Cor dicaid and rity Red	QBRIP PSI-90, aditions ad w/in uction)			Rate Ye Results	ear Impa	cted by	QBR
											l Patient		Leng	gth of Sta Patia	ay (Adm ents)	itted						

MARYLAND EXTRAORDINARY CIRCUMSTANCES EXCEPTION PROCESS

HSCRC notes that CMS has developed an Extraordinary Circumstances Exception (ECE) process for hospitals under the Inpatient Prospective Payment System (IPPS) that experience circumstances beyond their control that impacts the hospital's ability to meet quality reporting or payment program requirements. Since the CMS ECE process is not applicable for Maryland hospitals, HSCRC has developed a similar process for Maryland facilities under the purview of the HSCRC Rate Setting system to request an exception from HSCRC or CMS quality reporting and payment program requirements due to extraordinary circumstances beyond the control of the facility. This process and form may be found here on the HSCRC website.

QBR Score Calculations and Performance Standards for RY 2027

To the extent possible, HSCRC continues to align the QBR program data, scoring calculations, measures list and performance standards with the VBP program. Key points regarding this methodology are outlined below.

- HSCRC will use the data submitted to CMS for the Inpatient Quality Reporting program and
 posted to Care Compare, formerly Hospital Compare, for calculating hospital performance
 scores for all measures with exception of: the in-hospital and 30-day mortality measure and
 the PSI-90 all-payer measure, which are calculated using HSCRC case-mix data; and, the
 follow-up after discharge for acute exacerbation of chronic conditions, calculated from
 Medicare Claims and Claims-Line Feed (CCLF) and Medicaid claims data.
 - NOTE: If NHSN data are unavailable on CMS Care Compare for the relevant time periods for some or all hospitals, the HSCRC may obtain these data directly from CMS, or may download the data directly from the NHSN by MHCC. Results from MHCC may be pulled at a different time and may not match CMS data.
- CMS rules will be used when possible for minimum measure requirements for scoring a
 domain. HSCRC will proportionally readjust domain weighting if a measurement domain is
 missing for a hospital. Hospitals must be eligible for a score in the HCAHPS domain (i.e.,
 must have at least 100 completed surveys in the performance period) to be included in the
 program.

- Timey Follow Up for Acute Exacerbations of Chronic Conditions—Staff notes that the TFU
 measure specifications were updated in 2024 and were approved by the CMS-designated Partnership
 for Quality Measurement. The updated specifications will be adopted for the RY 2027 QBR program;
 and include modifications in the follow up times for some conditions as illustrated below.
 - 1. Hypertension: Follow up within 14 days of the date of discharge for high-acuity patients or within 30 days for medium-acuity patients
 - 2. Asthma: Follow up within 14 days of the date of discharge
 - 3. Heart Failure: Follow up within 14 days of the date of discharge
 - 4. Coronary Artery Disease: Follow up within 7 days of the date of discharge for highacuity patients or within 6 weeks for low-acuity patients
 - Chronic Obstructive Pulmonary Disease: Follow up within 30 days of the date of discharge
 - 6. Diabetes: Follow up within 14 days of the date of discharge for high-acuity patients

These specifications will be used for the CY 2025 TFU performance period.

- Mortality—hospital Inpatient and 30-day all-payer mortality summary reports and case-level
 data are provided to hospitals monthly based on preliminary data and quarterly based on final
 data. Reports are available on the CRS Portal. Appendix B contains the specifications for the
 Maryland Mortality measures.
- For hospitals with measures that have no data in the base period, staff reserves the right to assess hospitals on attainment-only, since the HSCRC will be unable to calculate improvement scores.
- For hospitals that have measures with data missing from Care Compare for the base and
 performance periods, staff reserves the right to give hospitals a score of zero for these
 measures. It is imperative, therefore, that hospitals review their data as soon as it is
 available and contact CMS with any concerns related to preview data or issues with posting
 data to Care Compare, and to alert HSCRC staff in a timely manner if issues cannot be
 resolved.

- With the exception of the performance standards for 30-Day All-Payer Mortality and ED LOS, each of the Safety, Clinical Care, and Person and Community Engagement measure standards for RY 2027 are listed below in Figure 4.
 - NOTE: In prior years, CMS has adjusted the VBP thresholds and benchmarks midyear for certain measures. Should any VBP measure included in the RY 2027 QBR program be updated, HSCRC will notify industry and provide an updated calculation sheet at that time.
- Staff anticipate that the following will be provided via the CRISP Reporting Services (CRS) Portal no later than July, with some components published sooner:
 - The calculation workbook contains a worksheet for each domain for hospitals to use to calculate and monitor their scores, current (included) IP mortality DRGs, and associated thresholds/benchmarks for each measure.

Figure 4. QBR Performance Standards for RY 2027

Safety Domain						
Previously Established and Newly Established Performance Standards for the FY 2027 Program Year						
Measure Short Name	Achievement Threshold	Benchmark				
	Safety Domain					
CMS PSI 90*^ (All Payer)	0.8702	0.6566				
CAUTI*+	0.5	0.0				
CLABSI*+	0.608	0.0				
CDI*+	0.351	0.0				
MRSA Bacteremia*+	0.65	0.0				
Colon and	0.735	0.0				
Abd Hysterectomy SSI*+	0.881	0.0				

^{*} Lower values represent better performance.

[^]Calculated using July 1, 2023-June 30, 2024 data.

[#] Previously established performance standards

⁺ The performance standards displayed in this table for the CDC NHSN measures (CAUTI, CLABSI, CDI, MRSA Bacteremia, and Colon and Abdominal Hysterectomy SSI) were published in CMS FY 2025 IPPS Final Rule and calculated using four quarters of CY 2023 data.

Clinical Care Domain		
Inpatient Mortality	95.5530	97.3720
30-Day All Payer Mortality		
Measure	96.2305	96.7185

Person and Community Engagement- HCAMPS Top Box

TABLE V.L.-09: ESTIMATED PERFORMANCE STANDARDS FOR THE FY 2027 PROGRAM YEAR: PERSON AND COMMUNITY ENGAGEMENT DOMAIN

TABLE V.L09: ESTIMATED PERFORMAN COMM	CE STANDARDS FOR UNITY ENGAGEMEN		YEAR: PERSON AND
HCAHPS Survey Dimension*1	Fioor (minimum)	Achievement Threshold (50° percentile)	Benchmark (mean of top decile)
Communication with Nurses	51.40	77.32	86.30
Communication with Doctors	51.59	77.53	86.29
Responsiveness of Hospital Staff**	X	X	X
Communication about Medicines	35.92	58.08	70.11
Hospital Cleanliness & Quietness	33.41	63.37	77.73
Discharge Information	67.47	86.02	91.48
Care Transition**	X	X	X
Overall Rating of Hospital	34.52	68.79	83.97

¹ Includes IPPS hospitals with 100+ completed surveys from patients discharged between January 2023 and December 2023 (2,756 hospitals).

Person and Community Engagement- HCAHPS Linear Measure	Threshold	Benchmark
Nurse Communication	91	93.6015
Doctor Communication	90	93.6254
Communication about Medication	75	81.6865

^{*}The newly established performance standards displayed in this table were calculated using CY 2023 data. Data include IPPS hospitals with 100+ completed surveys from patients discharged between January 2023 and December 2023.

^{**} For FY 2027, we are finalizing the proposal to only score on the six dimensions of the HCAHPS Survey measure that will remain unchanged from the current version until the updates to the survey measure are adopted beginning with FY 2030. Therefore, we are not reporting estimated performance standards for dimensions that will not be scored.

Person and Community Engagement Domain-Timely Follow Up						
	Achievement Threshold	Benchmark				
Follow Up after Exacerbation for Chronic Conditions- <i>Medicare</i>	TBD		TBD			
Follow Up after Exacerbation for Chronic Conditions- Medicaid	TBD		TBD			
Follow Up after Exacerbation for Chronic Conditions- Medicare Disparity Gap	TBD		TBD			

Person and Community Engagement Domain-ED Length of Stay					
	Achievement Threshold	Benchmark			
ED LOS for Admitted Patients	TBD	TBD			

For any questions, please email hscrc.quality@maryland.gov.

Appendix A: RY 2027 QBR Preset Payment Scale

Final QBR	Score	QBR Preset Scale
Scores less than		
or equal to	0%	-2.00%
	1%	-1.95%
	2%	-1.90%
	3%	-1.85%
	4%	-1.80%
	5%	-1.76%
	6%	-1.71%
	7%	-1.66%
	8%	-1.61%
	9%	-1.56%
	10%	-1.51%
	11%	-1.46%
	12%	-1.41%
	13%	-1.37%
	14%	-1.32%
	15%	-1.27%
	16%	-1.22%
	17%	-1.17%
	18%	-1.12%
	19%	-1.07%
	20%	-1.02%
	21%	-0.98%
	22%	-0.93%
	23%	-0.88%
	24%	-0.83%
	25%	-0.78%
	26%	-0.73%
	27%	-0.68%
	28%	-0.63%
	29%	-0.59%
	30%	-0.54%
	31%	-0.49%
	32%	-0.44%
	33%	-0.39%
	34%	-0.34%
	35%	-0.29%
	36%	-0.24%
	37%	-0.20%
	38%	-0.15%
	39%	-0.10%
	40%	-0.05%
	/110/	0.00%

Final QBR Score		QBR Preset Scale
	42%	0.05%
	43%	0.10%
	44%	0.15%
	45%	0.20%
	46%	0.26%
	47%	0.31%
	48%	0.36%
	49%	0.41%
	50%	0.46%
	51%	0.51%
	52%	0.56%
	53%	0.62%
	54%	0.67%
	55%	0.72%
	56%	0.77%
	57%	0.82%
	58%	0.87%
	59%	0.92%
	60%	0.97%
	61%	1.03%
	62%	1.08%
	63%	1.13%
	64%	1.18%
	65%	1.23%
	66%	1.28%
	67%	1.33%
	68%	1.38%
	69%	1.44%
	70%	1.49%
	71%	1.54%
	72%	1.59%
	73%	1.64%
	74%	1.69%
	75%	1.74%
	76%	1.79%
	77%	1.85%
	78%	1.90%
	79%	1.95%
	80%	2.00%
Scores greater	00/0	2.00/0
than or equal to	80%	2.00%
than or equal to		2.00%

*For RY 2027, hospitals earning a score of less than 41% (0.41) will receive a penalty, and hospitals earning a score of 0.42 and above will receive a reward. Any hospital earning a score of 0.80 or higher will receive the maximum reward of 2% of their inpatient revenue. This "cut point" will be re-evaluated retrospectively

Appendix B: RY 2025 Maryland Mortality Measure Specifications

Mortality Reporting

Hospitals will be provided with summary level quarterly reports based on preliminary and final HSCRC case-mix data. In addition, case-level detailed files will be provided to each hospital. These summary and case level reports will be posted through the CRISP Reporting Services portal.

Specifications: Inpatient Mortality Rates using 3M, Health Information Systems Risk of Mortality Adjustment

As 3M Risk of Mortality (ROM) categories--which comprise four levels similar to severity of illness classifications used in the All Patient Refined Diagnosis Related Group (APR DRG) payment classification system-- account for risk adjustment for deaths in the hospital, the ROM may provide an appropriate measure of hospital mortality with a broader focus. 3M APR DRGs and ROM are also used as the risk adjustment methodology for other mortality measures, such as those developed by the Agency for Healthcare Research and Quality.

Exclusions

The following categories are removed from the denominators and therefore not included in the mortality rate calculations (excluded from both mortality counts and denominator):

- APR-DRGs that are NOT in the 80% of cumulative deaths after removing all the exclusions.
 DRGs are chosen without palliative care discharges and then discharges with palliative care for selected DRGs are added back. All DRGs in the measure that have same number of observed deaths as the DRG at the 80 percent cut point are included.
- 2. APR-DRG ROM with a state-wide cell sizes below 20 after removing all the exclusions
- 3. Rehab hospitals (provider IDs that start with 213)
- 4. Hospitals without HCAHPS (RY 2021: Levindale, UMROI, McCready)
- 5. Transfers to other acute hospitals (PAT_DISP=discharge destination 02,05)
- 6. Age and sex unknown
- 7. Hospice (Daily service of 10, DAILYSER=10)
- 8. University of Maryland Shock Trauma Patients (daily service=02, and trauma days>0)
- 9. Left Against Medical Advice admissions: (PAT_DISP=07).
- 10. Trauma and Burn admissions: Admissions for multiple significant trauma (MDC=25) or extensive 3rd degree burn (APR DRG = 841 "Extensive 3rd degree burns with skin graft" or 843 "Extensive 3rd degree or full thickness burns w/o skin graft")

- 11. Error DRG: Admissions assigned to an error DRG 955 or 956
- 12. Other DRG: Admissions assigned to DRG 589 (Neonate BWT <500G or GA <24 weeks), 591 (NEONATE BIRTHWT 500-749G W/O MAJOR PROCEDURE), 196 (cardiac arrest) due to high risk of mortality in these conditions</p>
- "APR DRG 004 (Tracheostomy w MV 96+ hours w extensive procedure or ECMO); starting in RY 2022, remove discharges with primary or secondary procedure code for ECMO (""5A1522F"", ""5A1522G"", ""5A1522H"", ""5A15223""))
- 14. Medical (non-surgical) Malignancy admissions: Medical admissions with a principal diagnosis of a major metastatic malignancy (see calculation sheet for list of medical malignancies)

Adjustments

The Maryland inpatient hospital mortality measure was developed in conjunction with the Performance Measurement workgroup and other stakeholders. Based on this stakeholder input mortality is assessed using a regression model that adjusts for the following variables:

- 1. Admission APR DRG with Risk of Mortality (ROM)
- 2. Age (as a continuous variable) and age squared
- 3. Gender
- 4. Palliative Care Status (ICD-10 code = Z51.5)
- 5. Transfers from another institution defined as source of admission codes (SOURCADM) of 04 = FROM (TRANSFER) A DIFFERENT HOSPITAL FACILITY (INCLUDES TRANSFERS FROM ANOTHER ACUTE CARE HOSPITAL (ANY UNIT), FREESTANDING EMERGENCY DEPARTMENT, MIEMSS-DESIGNATED FACILITY). NOT LIMITED TO ONLY IP SERVICES.

Specifications: 30 Day Mortality Rates

Overview

The proposed measure is a hospital-wide, 30-day risk adjusted mortality rate. It is adapted from a measure developed by a team from Yale University Medical School for use by CMS to measure hospital performance for Medicare cases. This HSCRC measure supplements the inpatient mortality measure currently in use as part of the QBR program. The measure has been adapted for use with the HSCRC's all payer data for the state of Maryland and with objectives of Maryland's quality-based performance programs.

Data sources

Data sources for the measure are used to identify index hospital stays and their characteristics, the mortality outcome, and patient characteristics that result in exclusions.

- HSCRC hospital data: Contains hospital stay records, dates, disposition, admission source, diagnoses and procedures
- CMS and Medicaid hospice data: identifies patients participating in hospice programs and dates of participation
- Maryland vital statistics data: identifies individuals' dates of death

These inputs are linked by the field CRISP EID (a unique identifier which can be linked to all three sources). In addition, the code takes as inputs the lists of ICD-10 diagnosis and procedure codes and crosswalks between these codes and Clinical Classifications Software (CCS) diagnostic and procedure categories (provided below).

Inclusion

Patients ages 95 and younger residing in Maryland and treated in Maryland hospitals who are discharged during the study period are included.

Exclusion

Stays are excluded based on hospice enrollment, All Patients Refined Diagnosis Related Groups (APR DRG) assignment, disposition and death information, principal diagnosis, and random selection for patients with multiple admissions.

- Hospice: patients enrolled before, during, or within 30 days after admission, discharged to hospice are excluded
 - If DAILYSER = '10' (HOSPICE) then hospice1=1, where DAILYSER is the Daily Service value from CaseMix IP dataset
 - - Prior to FY19, 29 = TO ON-SITE HOSPICE, 53 = TO A HOSPICE FACILITY;
 - From FY19 and onwards, 50 = TO HOSPICE AT HOME, 51 = TO HOSPICE DEFINED AS A MEDICAL FACILITY (CERTIFIED) PROVIDING HOSPICE LEVEL OF CARE (INCLUDES HOSPICE UNIT OF AN ACUTE CARE HOSPITAL)
 - If there is a hospice admission 120 days prior to the index IP visit, or 30 days after the index IP visit either in CCLF claims or MD Medicaid claims, then set hospice3=1.
 - hospice3 = (hspc within 30days ip=1);

- APR DRG: Maternal and neonatal and ungroupable admissions are excluded based on APR DRG.
 Excluded codes are: 863, 636, 633, 630, 631, 639, 640, 603, 613, 611, 591, 593, 588, 589, 602, 608, 607, 614, 612, 609, 623, 621, 625, 622, 626, 583, 634, 581, 580, 955, 956, 196, 560, 540
- Disposition: Transfers, Left Against Medical Advice, inconsistent vital status (death prior to admission or prior to discharge if discharged alive) are excluded
- Diagnosis: Any diagnosis of metastatic cancer (Cancer Diagnosis list provided below) or a principal diagnosis indicating low survival probability (ICD10=G931 Anoxic brain damage, not elsewhere classified, R403 Persistent vegetative state, A8100 Creutzfeldt-Jakob disease, unspecified, A8109 Other Creutzfeldt-Jakob disease, G9382 Brain death, R092 Respiratory arrest, I469 Cardiac arrest, cause unspecified with a secondary diagnosis of AMI)) are excluded. Crush, spinal or brain injury, and burns are excluded by mapping the principal diagnosis into CCS software as CCS= 234: Crush, 240: Burns, 233: Intracranial injury 227: Spinal cord injury.
- Other: After these exclusions are imposed, a random admission is selected for each patient with multiple stays, other admissions are excluded

Outcome

Death within 30 days is indicated by subtracting the admission date from discharge date with a disposition indicating inpatient death or, if the patient is not discharged dead, from the date of death taken from the vital statistics file or.

Risk adjustment

Risk adjustment is performed by first classifying each stay into one of 15 service categories. The stay is assigned a surgical service category if a major surgical procedure is performed. Otherwise, the stay is nonsurgical. Non-surgical service categories are assigned based on principal diagnosis as mapped into CCS categories. Surgical service categories are assigned based on principal procedure (except Surgical Cancer, which is based on a major surgical procedure and a cancer principal diagnosis), also mapped into CCS categories. AHRQ CCS categories for these service lines are presented below.

Non-surgical categories are:

Non-Surgical: Cancer

Non-Surgical: Cardiac

Non-Surgical: Gastrointestinal

Non-Surgical: Infectious Disease

Non-Surgical: Neurology

Non-Surgical: Orthopedics

Non-Surgical: Pulmonary

Non-Surgical: Renal

Non-Surgical: Other

Surgical categories are:

Surgical: Cancer

Surgical: CardiothoracicSurgical: Neurosurgery

Surgical: OtherSurgical: General

Risk adjustment is performed by estimating logistic regression models for each service category with a random intercept for each index hospital. The risk factors in these models are age and APR DRG-risk of mortality (APR DRG-ROM). In this step, cases for which APR DRG volume is less than 20 are excluded from the model.

Measure

A risk adjusted mortality ratio is calculated separately for each of the 15 service lines. The ratio is the mean predicted probability over the mean expected probability for cases attributed to the hospital during the study period. Predicted probability is calculated as the probability projected from the model including the hospital's intercept, while expected probability is projected without that intercept.

The hospital's overall risk adjusted rate is the product of the statewide mortality rate, calculated over cases in the analytic file used to generate hospital predicted rates, and the weighted logarithmic mean of risk adjusted rates, where weights are the service line shares of cases for that hospital.

Cancer Exclusions Diagnosis List

C153	Malignant neoplasm of upper third of esophagus
C154	Malignant neoplasm of middle third of esophagus
C155	Malignant neoplasm of lower third of esophagus
C158	Malignant neoplasm of overlapping sites of esophagus
C159	Malignant neoplasm of esophagus, unspecified
C160	Malignant neoplasm of cardia
C161	Malignant neoplasm of fundus of stomach
C162	Malignant neoplasm of body of stomach
C163	Malignant neoplasm of pyloric antrum
C164	Malignant neoplasm of pylorus
C165	Malignant neoplasm of lesser curvature of stomach, unspecified
C166	Malignant neoplasm of greater curvature of stomach, unspecified
C168	Malignant neoplasm of overlapping sites of stomach

C169	Malignant neoplasm of stomach, unspecified
C170	Malignant neoplasm of duodenum
C171	Malignant neoplasm of jejunum
C172	Malignant neoplasm of ileum
C173	Meckel's diverticulum, malignant
C178	Malignant neoplasm of overlapping sites of small intestine
C179	Malignant neoplasm of small intestine, unspecified
C220	Liver cell carcinoma
C221	Intrahepatic bile duct carcinoma
C222	Hepatoblastoma
C223	Angiosarcoma of liver
C224	Other sarcomas of liver
C227	Other specified carcinomas of liver
C228	Malignant neoplasm of liver, primary, unspecified as to type
C229	Malignant neoplasm of liver, not specified as primary or secondary
C23	Malignant neoplasm of gallbladder
C240	Malignant neoplasm of extrahepatic bile duct
C241	Malignant neoplasm of ampulla of Vater
C248	Malignant neoplasm of overlapping sites of biliary tract
C249	Malignant neoplasm of biliary tract, unspecified
C250	Malignant neoplasm of head of pancreas
C251	Malignant neoplasm of body of pancreas
C252	Malignant neoplasm of tail of pancreas
C253	Malignant neoplasm of pancreatic duct
C254	Malignant neoplasm of endocrine pancreas
C257	Malignant neoplasm of other parts of pancreas
C258	Malignant neoplasm of overlapping sites of pancreas
C259	Malignant neoplasm of pancreas, unspecified
C3400	Malignant neoplasm of unspecified main bronchus
C3401	Malignant neoplasm of right main bronchus
C3402	Malignant neoplasm of left main bronchus
C3410	Malignant neoplasm of upper lobe, unspecified bronchus or lung
C3411	Malignant neoplasm of upper lobe, right bronchus or lung
C3412	Malignant neoplasm of upper lobe, left bronchus or lung
C342	Malignant neoplasm of middle lobe, bronchus or lung
C3430	Malignant neoplasm of lower lobe, unspecified bronchus or lung
C3431	Malignant neoplasm of lower lobe, right bronchus or lung
• • •	

C3432	Malignant neoplasm of lower lobe, left bronchus or lung
C3480	Malignant neoplasm of overlapping sites of unspecified bronchus an
C3481	Malignant neoplasm of ovrlp sites of right bronchus and lung
C3482	Malignant neoplasm of ovrlp sites of left bronchus and lung
C3490	Malignant neoplasm of unspecified part of unspecified bronchus or
C3491	Malignant neoplasm of unsp part of right bronchus or lung
C3492	Malignant neoplasm of unsp part of left bronchus or lung
C37	Malignant neoplasm of thymus
C380	Malignant neoplasm of heart
C381	Malignant neoplasm of anterior mediastinum
C382	Malignant neoplasm of posterior mediastinum
C383	Malignant neoplasm of mediastinum, part unspecified
C384	Malignant neoplasm of pleura
C388	Malignant neoplasm of overlapping sites of heart, mediastinum and
C390	Malignant neoplasm of upper respiratory tract, part unspecified
C399	Malignant neoplasm of lower respiratory tract, part unspecified
C450	Mesothelioma of pleura
C452	Mesothelioma of pericardium
C459	Mesothelioma, unspecified
C700	Malignant neoplasm of cerebral meninges
C701	Malignant neoplasm of spinal meninges
C709	Malignant neoplasm of meninges, unspecified
C710	Malignant neoplasm of cerebrum, except lobes and ventricles
C711	Malignant neoplasm of frontal lobe
C712	Malignant neoplasm of temporal lobe
C713	Malignant neoplasm of parietal lobe
C714	Malignant neoplasm of occipital lobe
C715	Malignant neoplasm of cerebral ventricle
C716	Malignant neoplasm of cerebellum
C717	Malignant neoplasm of brain stem
C718	Malignant neoplasm of overlapping sites of brain
C719	Malignant neoplasm of brain, unspecified
C720	Malignant neoplasm of spinal cord
C721	Malignant neoplasm of cauda equina
C7220	Malignant neoplasm of unspecified olfactory nerve
C7221	Malignant neoplasm of right olfactory nerve
C7222	Malignant neoplasm of left olfactory nerve
• • •	

C7230	Malignant neoplasm of unspecified optic nerve
C7231	Malignant neoplasm of right optic nerve
C7232	Malignant neoplasm of left optic nerve
C7240	Malignant neoplasm of unspecified acoustic nerve
C7241	Malignant neoplasm of right acoustic nerve
C7242	Malignant neoplasm of left acoustic nerve
C7250	Malignant neoplasm of unspecified cranial nerve
C7259	Malignant neoplasm of other cranial nerves
C729	Malignant neoplasm of central nervous system, unspecified
C770	Secondary and unspecified malignant neoplasm of lymph nodes of hea
C771	Secondary and unspecified malignant neoplasm of intrathoracic lymp
C772	Secondary and unspecified malignant neoplasm of intra-abdominal ly
C773	Secondary and unspecified malignant neoplasm of axilla and upper I
C774	Secondary and unspecified malignant neoplasm of inguinal and lower
C775	Secondary and unspecified malignant neoplasm of intrapelvic lymph
C778	Secondary and unspecified malignant neoplasm of lymph nodes of mul
C779	Secondary and unspecified malignant neoplasm of lymph node, unspec
C7800	Secondary malignant neoplasm of unspecified lung
C7801	Secondary malignant neoplasm of right lung
C7802	Secondary malignant neoplasm of left lung
C781	Secondary malignant neoplasm of mediastinum
C782	Secondary malignant neoplasm of pleura
C7830	Secondary malignant neoplasm of unspecified respiratory organ
C7839	Secondary malignant neoplasm of other respiratory organs
C784	Secondary malignant neoplasm of small intestine
C785	Secondary malignant neoplasm of large intestine and rectum
C786	Secondary malignant neoplasm of retroperitoneum and peritoneum
C787	Secondary malignant neoplasm of liver and intrahepatic bile duct
C7880	Secondary malignant neoplasm of unspecified digestive organ
C7889	Secondary malignant neoplasm of other digestive organs
C7900	Secondary malignant neoplasm of unsp kidney and renal pelvis
C7901	Secondary malignant neoplasm of r kidney and renal pelvis
C7902	Secondary malignant neoplasm of left kidney and renal pelvis
C7910	Secondary malignant neoplasm of unspecified urinary organs
C7911	Secondary malignant neoplasm of bladder
C7919	Secondary malignant neoplasm of other urinary organs
C792	Secondary malignant neoplasm of skin

C7931	Secondary malignant neoplasm of brain
C7932	Secondary malignant neoplasm of cerebral meninges
C7940	Secondary malignant neoplasm of unsp part of nervous system
C7949	Secondary malignant neoplasm of oth parts of nervous system
C7951	Secondary malignant neoplasm of bone
C7952	Secondary malignant neoplasm of bone marrow
C7960	Secondary malignant neoplasm of unspecified ovary
C7961	Secondary malignant neoplasm of right ovary
C7962	Secondary malignant neoplasm of left ovary
C7970	Secondary malignant neoplasm of unspecified adrenal gland
C7971	Secondary malignant neoplasm of right adrenal gland
C7972	Secondary malignant neoplasm of left adrenal gland
C7981	Secondary malignant neoplasm of breast
C7982	Secondary malignant neoplasm of genital organs
C7989	Secondary malignant neoplasm of other specified sites
C799	Secondary malignant neoplasm of unspecified site
C7A00	Malignant carcinoid tumor of unspecified site
C7A010	Malignant carcinoid tumor of the duodenum
C7A011	Malignant carcinoid tumor of the jejunum
C7A012	Malignant carcinoid tumor of the ileum
C7A019	Malignant carcinoid tumor of the small intestine, unspecified portion
C7A020	Malignant carcinoid tumor of the appendix
C7A021	Malignant carcinoid tumor of the cecum
C7A022	Malignant carcinoid tumor of the ascending colon
C7A023	Malignant carcinoid tumor of the transverse colon
C7A024	Malignant carcinoid tumor of the descending colon
C7A025	Malignant carcinoid tumor of the sigmoid colon
C7A026	Malignant carcinoid tumor of the rectum
C7A029	Malignant carcinoid tumor of the large intestine, unspecified portion
C7A090	Malignant carcinoid tumor of the bronchus and lung
C7A091	Malignant carcinoid tumor of the thymus
C7A092	Malignant carcinoid tumor of the stomach
C7A093	Malignant carcinoid tumor of the kidney
C7A094	Malignant carcinoid tumor of the foregut, unspecified
C7A095	Malignant carcinoid tumor of the midgut, unspecified
C7A096	Malignant carcinoid tumor of the hindgut, unspecified
C7A098	Malignant carcinoid tumors of other sites

C7024

C7A1	Malignant poorly differentiated neuroendocrine tumors
C7A8	Other malignant neuroendocrine tumors
C7B00	Secondary carcinoid tumors, unspecified site
C7B01	Secondary carcinoid tumors of distant lymph nodes
C7B02	Secondary carcinoid tumors of liver
C7B03	Secondary carcinoid tumors of bone
C7B04	Secondary carcinoid tumors of peritoneum
C7B09	Secondary carcinoid tumors of other sites
C7B1	Secondary Merkel cell carcinoma
C800	Disseminated malignant neoplasm, unspecified
J910	Malignant pleural effusion

AHRQ CCS Categories by Service Line

Defining Surgical F	Procedure AHRQ CCS	CCS Description	on Surgica	l Division of Procedure
36	Lobectomy or pneumonecto	my Cardio	thoracic	
42	Other OR Rx procedures on	respiratory sys	tem and mediast	inum Cardiothoracic
43	Heart valve procedures	Cardiothoracic		
44	Coronary artery bypass graf	t (CABG)	Cardiothoracic	
49	Other OR heart procedures	Cardiothoracic		
66	Procedures on spleen	General		
67	Other therapeutic procedure	es; hemic and ly	mphatic system	General
72	Colostomy; temporary and p	permanent	General	
73	lleostomy and other enteros	tomy Genera	al	
74	Gastrectomy; partial and total	al Genera	al	
75	Small bowel resection	General		
78	Colorectal resection Genera	I		
79	Local excision of large intest	tine lesion (not	endoscopic)	General
80	Appendectomy General	l		
84	Cholecystectomy and comm	non duct explora	ation Genera	I
85	Inguinal and femoral hernia	repair Genera	al	
86	Other hernia repair Genera	I		
89	Exploratory laparotomy	General		
90	Excision; lysis peritoneal ad	hesions Genera	al	
94	Other OR upper GI theraped	utic procedures	General	

Other OR gastrointestinal therapeutic procedures General Kidney transplant General Lumpectomy; quadrantectomy of breast General MastectomyGeneral The Organ transplantation (other than bone marrow, corneal or kidney) General Thyroidectomy; partial or complete Other Corneal transplant Other Glaucoma procedures Other Glaucoma procedures Other Lens and cataract procedures Other Eens and cataract procedures Other Destruction of lesion of retina and choroid Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Myringotomy Other Mastoidectomy Other Mastoidectomy Other Tonsillectomy and/or adenoidectomy Other Tonsillectomy and/or adenoidectomy Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass other Other Other occurred or sessels of head and neck Other Transurethral excision; drainage; or removal unionary obstruction Other Nephroctomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal unionary obstruction Other Nephrectomy; partial or complete Other Other Other Other Anapeutic procedures Other Other Other Other porcedures on vessels of head and neck Other Cother Other vascular bypass other Other Other section; or placement or anastomosis Other Transurethral excision; drainage; or removal unionary obstruction Other Nephrectomy; partial or complete Other Other Other Other Other Imps Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other Other	96	Other OR lower GI therapeutic procedures General
Lumpectomy; quadrantectomy of breast General MastectomyGeneral Organ transplantation (other than bone marrow, corneal or kidney) Thyroidectomy; partial or complete Other Other therapeutic endocrine procedures Other Galaucoma procedures Other Galaucoma procedures Other Lens and cataract procedures Other Censel freinial tear; detachment Other Destruction of lesion of retina and choroid Other Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Other Other therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Other OR procedures on vessels of head and neck Other Cher Serpheral vascular bypass other Other OR procedures on vessels of head and neck Other Transurethral excision; drainage; or removal urinary obstruction Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Other OR procedures on procedures Other Other OR procedures on or vessels of head and neck Other Transurethral excision; drainage; or removal urinary obstruction Other Other OR procedures on orgilete Other Other OR therapeutic procedures Other Other OR therapeutic procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral excision of prostate (TURP) Other	99	Other OR gastrointestinal therapeutic procedures General
167 MastectomyGeneral 178 Organ transplantation (other than bone marrow, corneal or kidney) General 10 Thyroidectomy; partial or complete Other 12 Other therapeutic endocrine procedures Other 13 Corneal transplant Other 14 Glaucoma procedures Other 15 Lens and cataract procedures Other 16 Repair of retinal tear; detachment Other 17 Destruction of lesion of retina and choroid Other 18 Other extraocular muscle and orbit therapeutic procedures Other 19 Other extraocular muscle and orbit therapeutic procedures Other 20 Other intraocular muscle and orbit therapeutic procedures Other 21 Other extraocular muscle and orbit therapeutic procedures Other 22 Tympanoplasty Other 23 Myringotomy Other 24 Mastoidectomy Other 25 Other therapeutic ear procedures Other 26 Other therapeutic ear procedures Other 27 Tonsillectomy and/or adenoidectomy Other 28 Plastic procedures on nose Other 30 Tonsillectomy and/or adenoidectomy Other 31 Other OR therapeutic procedures on nose; mouth and pharynx Other 32 Aortic resection; replacement or anastomosis Other 33 Other OR therapeutic procedures on hose; mouth and pharynx Other 34 Peripheral vascular bypass of head and neck Other 35 Varicose vein stripping; lower limb Other 36 Other Vascular bypass and shunt; not heart Other 37 Other OR procedures on vessels of head and neck Other 38 Other OR procedures on vessels of head and neck Other 39 Other OR procedures on vessels of head and neck Other 40 Embolectomy and endarterectomy of lower limbs Other 40 Embolectomy and endarterectomy of lower limbs Other 41 Transurethral excision; drainage; or removal urinary obstruction Other 41 Nephrectomy; partial or complete Other 42 Other OR therapeutic procedures of urinary tract Other 43 Other OR therapeutic procedures of urinary tract Other 44 Other OR therapeutic procedures of urinary tract Other 45 Other OR procedures on prostate (TURP) Other	105	Kidney transplant General
176 Organ transplantation (other than bone marrow, corneal or kidney) 10 Thyroidectomy; partial or complete Other 12 Other therapeutic endocrine procedures Other 13 Corneal transplant Other 14 Glaucoma procedures Other 15 Lens and cataract procedures Other 16 Repair of retinal tear; detachment Other 17 Destruction of lesion of retina and choroid Other 18 Other intraocular therapeutic procedures Other 19 Other intraocular muscle and orbit therapeutic procedures Other 20 Other intraocular muscle and orbit therapeutic procedures Other 21 Other extraocular muscle and orbit therapeutic procedures Other 22 Tympanoplasty Other 23 Myringotomy Other 24 Mastoidectomy Other 26 Other therapeutic ear procedures Other 27 Other otherapeutic ear procedures Other 28 Plastic procedures on nose Other 30 Tonsillectomy and/or adenoidectomy Other 31 Other OR therapeutic procedures on nose; mouth and pharynx Other 32 Aortic resection; replacement or anastomosis Other 33 Other OR therapeutic procedures on nose; mouth and pharynx Other 34 Endarterectomy; vessel of head and neck Other 35 Varicose vein stripping; lower limb Other 36 Other vascular bypass Other 37 Other OR procedures on vessels of head and neck Other 38 Other OR procedures on vessels of head and neck Other 39 Other OR procedures on vessels of head and neck Other 40 Embolectomy and endarterectomy of lower limbs Other 40 Embolectomy and endarterectomy of lower limbs Other 41 Transurethral excision; drainage; or removal urinary obstruction Other 41 Nephrectomy; partial or complete Other 42 Other OR therapeutic procedures Other 43 Other Other Other Other 44 Nephrectomy; partial or complete Other 45 Other Other Other Other 46 Genitourinary incontinence procedures Other 47 Other Other Other	166	Lumpectomy; quadrantectomy of breast General
Thyroidectomy; partial or complete Other Other therapeutic endocrine procedures Other Corneal transplant Other Glaucoma procedures Other Lens and cataract procedures Other Endocrine of retinal tear; detachment Other Other Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Mastoidectomy Other Mastoidectomy Other Other therapeutic ear procedures Other Other Other therapeutic procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Aortic resection; replacement or anastomosis Other Serpineral vascular bypass Other Other Varicose vein stripping; lower limb Other Other Other vascular bypass and shunt; not heart Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Other Other Other other Other Transurethral resection of prostate (TURP) Other Transurethral resection of prostate (TURP) Other	167	MastectomyGeneral
Other therapeutic endocrine procedures Other Corneal transplant Other Glaucoma procedures Other Lens and cataract procedures Other Chesair of retinal tear; detachment Other Destruction of lesion of retina and choroid Other Other other intraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Mastoidectomy Other Other therapeutic ear procedures Other Other other plastic procedures Other Tonsillectomy and/or adenoidectomy Other Chesair research; lewer limb Other Aortic resection; replacement or anastomosis Peripheral vascular bypass and shunt; not heart Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrectomy; partial or complete Other Other	176	Organ transplantation (other than bone marrow, corneal or kidney) General
Corneal transplant Other Glaucoma procedures Other Lens and cataract procedures Other Repair of retinal tear; detachment Other Destruction of lesion of retina and choroid Other Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Myringotomy Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Cher Cother Cother South and pharynx Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Cher Other Vascular bypass Other Other Other Other Souther So	10	Thyroidectomy; partial or complete Other
Glaucoma procedures Other Lens and cataract procedures Other Repair of retinal tear; detachment Other Destruction of lesion of retina and choroid Other Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Myringotomy Other Mastoidectomy Other Cother therapeutic ear procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Cother OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Peripheral vascular bypass Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Cother OR procedures on vessels of head and neck Other Cother OR procedures on vessels of head and neck Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Cother Vascular bypass Other Cother Vascular bypass Other Other Other vascular bypass of head and neck Other Auricose vein stripping; lower limb Other Cother Other Other Other Aransurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrotomy; partial or complete Other Aransurethral resection of prostate (TURP) Other Transurethral resection of prostate (TURP) Other	12	Other therapeutic endocrine procedures Other
Lens and cataract procedures Other Repair of retinal tear; detachment Other Destruction of lesion of retina and choroid Other Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Myringotomy Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other Vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Other OR procedures on vessels of head and neck Other Other Vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Transurethral resection of prostate (TURP) Other	13	Corneal transplant Other
Repair of retinal tear; detachment Other Destruction of lesion of retina and choroid Other Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Myringotomy Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Cher Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other OR procedures on vessels of head and neck Other Other OR procedures on vessels of head and neck Other Dembolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Other OR therapeutic procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Transurethral resection of prostate (TURP) Other	14	Glaucoma procedures Other
Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Myringotomy Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Other OR therapeutic procedures on nose; mouth and pharynx Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass other Other OR procedures on vessels of head and neck Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy; partial or complete Other Other OR procedures or procedures Other Other OR procedures on vessels of head and neck Other	15	Lens and cataract procedures Other
Other intraocular therapeutic procedures Other Other extraocular muscle and orbit therapeutic procedures Other Tympanoplasty Other Myringotomy Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Acrtic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures of urinary tract Other Transurethral resection of prostate (TURP) Other	16	Repair of retinal tear; detachment Other
21 Other extraocular muscle and orbit therapeutic procedures Other 22 Tympanoplasty Other 23 Myringotomy Other 24 Mastoidectomy Other 26 Other therapeutic ear procedures Other 27 Other Plastic procedures on nose Other 28 Plastic procedures on nose Other 30 Tonsillectomy and/or adenoidectomy Other 31 Other OR therapeutic procedures on nose; mouth and pharynx Other 32 Aortic resection; replacement or anastomosis Other 33 Varicose vein stripping; lower limb Other 34 Varicose vein stripping; lower limb Other 35 Peripheral vascular bypass Other 36 Other vascular bypass and shunt; not heart Other 39 Other OR procedures on vessels of head and neck Other 40 Embolectomy and endarterectomy of lower limbs Other 40 Embolectomy and endarterectomy of lower limbs Other 40 Nephrotomy and nephrostomy Other 40 Nephrectomy; partial or complete Other 40 Genitourinary incontinence procedures Other 40 Other OR therapeutic procedures Other 410 Other OR therapeutic procedures Other 4110 Other OR therapeutic procedures Other 412 Other OR therapeutic procedures Other 413 Transurethral resection of prostate (TURP) Other	17	Destruction of lesion of retina and choroid Other
Tympanoplasty Other Myringotomy Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other OR procedures on vessels of head and neck Other Other OR procedures on vessels of head and neck Other Membolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrectomy; partial or complete Other Mephrectomy; partial or complete Other Genitourinary incontinence procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	20	Other intraocular therapeutic procedures Other
Myringotomy Other Mastoidectomy Other Other therapeutic ear procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other OR procedures on vessels of head and neck Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Transurethral resection Other	21	Other extraocular muscle and orbit therapeutic procedures Other
24 Mastoidectomy Other 26 Other therapeutic ear procedures Other 28 Plastic procedures on nose Other 30 Tonsillectomy and/or adenoidectomy Other 33 Other OR therapeutic procedures on nose; mouth and pharynx Other 51 Endarterectomy; vessel of head and neck Other 52 Aortic resection; replacement or anastomosis Other 53 Varicose vein stripping; lower limb Other 55 Peripheral vascular bypass Other 56 Other vascular bypass and shunt; not heart Other 59 Other OR procedures on vessels of head and neck Other 60 Embolectomy and endarterectomy of lower limbs Other 101 Transurethral excision; drainage; or removal urinary obstruction Other 103 Nephrotomy and nephrostomy Other 104 Nephrectomy; partial or complete Other 106 Genitourinary incontinence procedures Other 110 Other OR therapeutic procedures of urinary tract Other 111 Transurethral resection of prostate (TURP) Other 112 Other prostatectomy Other	22	Tympanoplasty Other
Other therapeutic ear procedures Other Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Other Other Other Other Other Other Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other	23	Myringotomy Other
Plastic procedures on nose Other Tonsillectomy and/or adenoidectomy Other Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrectomy; partial or complete Other Nephrectomy; partial or complete Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	24	Mastoidectomy Other
Tonsillectomy and/or adenoidectomy Other Other Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	26	Other therapeutic ear procedures Other
Other OR therapeutic procedures on nose; mouth and pharynx Other Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	28	Plastic procedures on nose Other
Endarterectomy; vessel of head and neck Other Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	30	Tonsillectomy and/or adenoidectomy Other
Aortic resection; replacement or anastomosis Other Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	33	Other OR therapeutic procedures on nose; mouth and pharynx Other
Varicose vein stripping; lower limb Other Peripheral vascular bypass Other Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	51	Endarterectomy; vessel of head and neck Other
Peripheral vascular bypass Other Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	52	Aortic resection; replacement or anastomosis Other
Other vascular bypass and shunt; not heart Other Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	53	Varicose vein stripping; lower limb Other
Other OR procedures on vessels of head and neck Other Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	55	Peripheral vascular bypass Other
Embolectomy and endarterectomy of lower limbs Other Transurethral excision; drainage; or removal urinary obstruction Other Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	56	Other vascular bypass and shunt; not heart Other
Transurethral excision; drainage; or removal urinary obstruction Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Transurethral resection of prostate (TURP) Open prostatectomy Other	59	Other OR procedures on vessels of head and neck Other
Nephrotomy and nephrostomy Other Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	60	Embolectomy and endarterectomy of lower limbs Other
Nephrectomy; partial or complete Other Genitourinary incontinence procedures Other Other OR therapeutic procedures of urinary tract Other Transurethral resection of prostate (TURP) Other Open prostatectomy Other	101	Transurethral excision; drainage; or removal urinary obstruction Other
106 Genitourinary incontinence procedures Other 112 Other OR therapeutic procedures of urinary tract Other 113 Transurethral resection of prostate (TURP) Other 114 Open prostatectomy Other	103	Nephrotomy and nephrostomy Other
Other OR therapeutic procedures of urinary tract Transurethral resection of prostate (TURP) Other Open prostatectomy Other	104	Nephrectomy; partial or complete Other
Transurethral resection of prostate (TURP) Other Open prostatectomy Other	106	Genitourinary incontinence procedures Other
Open prostatectomy Other	112	Other OR therapeutic procedures of urinary tract Other
	113	Transurethral resection of prostate (TURP) Other
118 Other OR therapeutic procedures: male denital Other	114	Open prostatectomy Other
Other OK therapeutic procedures, male german Other	118	Other OR therapeutic procedures; male genital Other

119	Oophorectomy; unilateral and bilateral Other
120	Other operations on ovary Other
123	Other operations on fallopian tubes Other
124	Hysterectomy; abdominal and vaginal Other
125	Other excision of cervix and uterus Other
129	Repair of cystocele and rectocele; obliteration of vaginal vault Other
131	Other non-OR therapeutic procedures; female organs Other
132	Other OR therapeutic procedures; female organs Other
135	Forceps; vacuum; and breech delivery Other
144	Treatment; facial fracture or dislocation Other
160	Other therapeutic procedures on muscles and tendons Other
164	Other OR therapeutic procedures on musculoskeletal system Other
172	Skin graft Other
175	Other OR therapeutic procedures on skin and breast Other
1	Incision and excision of CNS Neurosurgery
2	Insertion; replacement; or removal of extracranial ventricular shunt Neurosurgery
9	Other OR therapeutic nervous system procedures Neurosurgery
	Landa de la companya
3	Laminectomy; excision intervertebral disc Orthopedic
3 142	Partial excision bone Orthopedic
	·
142	Partial excision bone Orthopedic
142 143	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic
142 143 145	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic
142 143 145 146	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic
142 143 145 146	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur)
142 143 145 146 147	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic
142 143 145 146 147	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic Other fracture and dislocation procedure Orthopedic
142 143 145 146 147 148 150	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic Other fracture and dislocation procedure Orthopedic Division of joint capsule; ligament or cartilage Orthopedic
142 143 145 146 147 148 150	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic Other fracture and dislocation procedure Orthopedic Division of joint capsule; ligament or cartilage Orthopedic Excision of semilunar cartilage of knee Orthopedic
142 143 145 146 147 148 150 151	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic Other fracture and dislocation procedure Orthopedic Division of joint capsule; ligament or cartilage Orthopedic Excision of semilunar cartilage of knee Orthopedic Arthroplasty knee Orthopedic
142 143 145 146 147 148 150 151 152 153	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic Other fracture and dislocation procedure Orthopedic Division of joint capsule; ligament or cartilage Orthopedic Excision of semilunar cartilage of knee Orthopedic Arthroplasty knee Orthopedic Hip replacement; total and partial Orthopedic
142 143 145 146 147 148 150 151 152 153	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic Other fracture and dislocation procedure Orthopedic Division of joint capsule; ligament or cartilage Orthopedic Excision of semilunar cartilage of knee Orthopedic Arthroplasty knee Orthopedic Hip replacement; total and partial Orthopedic Arthroplasty other than hip or knee Orthopedic
142 143 145 146 147 148 150 151 152 153 154	Partial excision bone Orthopedic Bunionectomy or repair of toe deformities Orthopedic Treatment; fracture or dislocation of radius and ulna Orthopedic Treatment; fracture or dislocation of hip and femur Orthopedic Treatment; fracture or dislocation of lower extremity (other than hip or femur) Orthopedic Other fracture and dislocation procedure Orthopedic Division of joint capsule; ligament or cartilage Orthopedic Excision of semilunar cartilage of knee Orthopedic Arthroplasty knee Orthopedic Hip replacement; total and partial Orthopedic Arthroplasty other than hip or knee Orthopedic Amputation of lower extremity Orthopedic

11	Cancer of head and neck Cancer
12	Cancer of esophagus Cancer
13	Cancer of stomach Cancer
14	Cancer of colon Cancer
15	Cancer of rectum and anus Cancer
16	Cancer of liver and intrahepatic bile duct Cancer
17	Cancer of pancreas Cancer
18	Cancer of other GI organs; peritoneum Cancer
19	Cancer of bronchus; lung Cancer
20	Cancer; other respiratory and intrathoracic Cancer
21	Cancer of bone and connective tissue Cancer
22	Melanomas of skin Cancer
23	Other non-epithelial cancer of skin Cancer
24	Cancer of breast Cancer
25	Cancer of uterus Cancer
26	Cancer of cervix Cancer
27	Cancer of ovary Cancer
28	Cancer of other female genital organs Cancer
29	Cancer of prostate Cancer
30	Cancer of testis Cancer
31	Cancer of other male genital organs Cancer
32	Cancer of bladder Cancer
33	Cancer of kidney and renal pelvis Cancer
34	Cancer of other urinary organs Cancer
35	Cancer of brain and nervous system Cancer
36	Cancer of thyroid Cancer
37	Hodgkin's disease Cancer
38	Non-Hodgkin`s lymphoma Cancer
39	Leukemias Cancer
40	Multiple myeloma Cancer
41	Cancer; other and unspecified primary Cancer
43	Malignant neoplasm without specification of site Cancer
44	Neoplasms of unspecified nature or uncertain behavior Cancer
45	Maintenance chemotherapy; radiotherapy Cancer
96	Heart valve disorders Cardiac
97	Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or
sexually transmitte	d disease) Cardiac
• • •	

100	Acute myocardial infarction Cardiac
101	Coronary atherosclerosis and other heart disease Cardiac
102	Nonspecific chest pain Cardiac
103	Pulmonary heart disease Cardiac
104	Other and ill-defined heart disease Cardiac
105	Conduction disorders Cardiac
106	Cardiac dysrhythmias Cardiac
107	Cardiac arrest and ventricular fibrillation Cardiac
108	Congestive heart failure; nonhypertensive Cardiac
213	Cardiac and circulatory congenital anomalies Cardiac
245	Syncope Cardiac
249	Shock Cardiac
6	Hepatitis Gastrointestinal
120	Hemorrhoids Gastrointestinal
138	Esophageal disorders Gastrointestinal
139	Gastroduodenal ulcer (except hemorrhage) Gastrointestinal
140	Gastritis and duodenitis Gastrointestinal
141	Other disorders of stomach and duodenum Gastrointestinal
142	Appendicitis and other appendiceal conditions Gastrointestinal
143	Abdominal hernia Gastrointestinal
144	Regional enteritis and ulcerative colitis Gastrointestinal
145	Intestinal obstruction without hernia Gastrointestinal
146	Diverticulosis and diverticulitis Gastrointestinal
147	Anal and rectal conditions Gastrointestinal
148	Peritonitis and intestinal abscess Gastrointestinal
149	Biliary tract disease Gastrointestinal
150	Liver disease; alcohol related Gastrointestinal
151	Other liver diseases Gastrointestinal
152	Pancreatic disorders (not diabetes) Gastrointestinal
153	Gastrointestinal hemorrhage Gastrointestinal
154	Noninfectious gastroenteritis Gastrointestinal
155	Other gastrointestinal disorders Gastrointestinal
214	Digestive congenital anomalies Gastrointestinal
250	Nausea and vomiting Gastrointestinal
251	Abdominal pain Gastrointestinal
1	Tuberculosis Infectious Disease
2	Septicemia (except in labor) Infectious Disease

3	Bacterial infection; unspecified site Infectious Disease			
4	Mycoses Infectious Disease			
5	HIV infection Infectious Disease			
7	Viral infection Infectious Disease			
8	Other infections; including parasitic Infectious Disease			
9	Sexually transmitted infections (not HIV or hepatitis) Infectious Disease			
76	Meningitis (except that caused by tuberculosis or sexually transmitted disease)			
	Infectious Disease			
77	Encephalitis (except that caused by tuberculosis or sexually transmitted disease)			
	Infectious Disease			
135	Intestinal infection Infectious Disease			
159	Urinary tract infections Infectious Disease			
197	Skin and subcutaneous tissue infections			
201	Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually			
transmitted disease) Infectious Disease				
246	Fever of unknown origin Infectious Disease			
237	Complication of device; implant or graft Other Conditions			
238	Complications of surgical procedures or medical care Other Conditions			
198	Other inflammatory condition of skin Other Conditions			
199	Chronic ulcer of skin Other Conditions			
200	Other skin disorders Other Conditions			
48	Thyroid disorders Other Conditions			
49	Diabetes mellitus without complication Other Conditions			
50	Diabetes mellitus with complications Other Conditions			
51	Other endocrine disorders Other Conditions			
53	Disorders of lipid metabolism Other Conditions			
58	Other nutritional; endocrine; and metabolic disorders Other Conditions			
206	Osteoporosis Other Conditions			
92	Otitis media and related conditions Other Conditions			
94	Other ear and sense organ disorders Other Conditions			
124	Acute and chronic tonsillitis Other Conditions			
134	Other upper respiratory disease Other Conditions			
136	Disorders of teeth and jaw Other Conditions			
137	Diseases of mouth; excluding dental Other Conditions			
46	Benign neoplasm of uterus Other Conditions			
160	Calculus of urinary tract Other Conditions			
161	Other diseases of kidney and ureters Other Conditions			
• • • •				

162	Other diseases of bladder and urethra Other Conditions
163	Genitourinary symptoms and ill-defined conditions Other Conditions
164	Hyperplasia of prostate Other Conditions
165	Inflammatory conditions of male genital organs Other Conditions
166	Other male genital disordersOther Conditions
167	Nonmalignant breast conditions Other Conditions
168	Inflammatory diseases of female pelvic organs Other Conditions
169	Endometriosis Other Conditions
170	Prolapse of female genital organs Other Conditions
171	Menstrual disorders Other Conditions
172	Ovarian cyst Other Conditions
173	Menopausal disorders Other Conditions
174	Female infertility Other Conditions
175	Other female genital disorders Other Conditions
215	Genitourinary congenital anomalies Other Conditions
59	Deficiency and other anemia Other Conditions
60	Acute posthemorrhagic anemia Other Conditions
61	Sickle cell anemia Other Conditions
62	Coagulation and hemorrhagic disorders Other Conditions
63	Diseases of white blood cells Other Conditions
64	Other hematologic conditions Other Conditions
247	Lymphadenitis Other Conditions
54	Gout and other crystal arthropathies Other Conditions
57	Immunity disorders Other Conditions
202	Rheumatoid arthritis and related disease Other Conditions
210	Systemic lupus erythematosus and connective tissue disorders Other Conditions
211	Other connective tissue disease Other Conditions
253	Allergic reactions Other Conditions
84	Headache; including migraine Other Conditions
93	Conditions associated with dizziness or vertigo Other Conditions
10	Immunizations and screening for infectious disease Other Conditions
47	Other and unspecified benign neoplasm Other Conditions
52	Nutritional deficiencies Other Conditions
217	Other congenital anomalies Other Conditions
252	Malaise and fatigue Other Conditions
255	Administrative/social admission Other Conditions
256	Medical examination/evaluation Other Conditions

257	Other aftercare Other Conditions		
258	Other screening for suspected conditions (not mental disorders or infectious disease)		
	Other Conditions		
259	Residual codes; unclassified Other Conditions		
86	Cataract Other Conditions		
87	Retinal detachments; defects; vascular occlusion; and retinopathy Other Conditions		
88	Glaucoma Other Conditions		
89	Blindness and vision defects Other Conditions		
90	Inflammation; infection of eye (except that caused by tuberculosis or sexually		
transmitteddisease) Other Conditions		
91	Other eye disorders Other Conditions		
653	Delirium, dementia, and amnestic and other cognitive disorders Other Conditions		
241	Poisoning by psychotropic agents Other Conditions		
242	Poisoning by other medications and drugs Other Conditions		
243	Poisoning by nonmedicinal substances Other Conditions		
660	Alcohol-related disorders Other Conditions		
661	Substance-related disorders Other Conditions		
663	Screening and history of mental health and substance abuse codes Other Conditions		
114	Peripheral and visceral atherosclerosis Other Conditions		
115	Aortic; peripheral; and visceral artery aneurysms Other Conditions		
116	Aortic and peripheral arterial embolism or thrombosis Other Conditions		
117	Other circulatory disease Other Conditions		
118	Phlebitis; thrombophlebitis and thromboembolism Other Conditions		
119	Varicose veins of lower extremity Other Conditions		
121	Other diseases of veins and lymphatics Other Conditions		
248	Gangrene Other Conditions		
78	Other CNS infection and poliomyelitis Neurology		
79	Parkinson`s disease Neurology		
80	Multiple sclerosis Neurology		
81	Other hereditary and degenerative nervous system conditions Neurology		
82	Paralysis Neurology		
83	Epilepsy; convulsions Neurology		
85	Coma; stupor; and brain damage Neurology		
95	Other nervous system disorders Neurology		
109	Acute cerebrovascular disease Neurology		
110	Occlusion or stenosis of precerebral arteries Neurology		
111	Other and ill-defined cerebrovascular disease Neurology		

Late effects of cerebrovascular disease Neurology Nervous system congenital anomalies Neurology Open wounds of head; neck; and trunk Orthopedics Open wounds of extremities Orthopedics Superficial injury; contusion Orthopedics Other injuries and conditions due to external causes Orthopedics Other non-traumatic joint disorders Orthopedics Other non-traumatic joint disorders; other back problems Orthopedics Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Other bone disease and musculoskeletal deformities Orthopedics Joint disorders and dislocations; trauma-related Orthopedics
Open wounds of head; neck; and trunk Orthopedics Open wounds of extremities Orthopedics Superficial injury; contusion Orthopedics Other injuries and conditions due to external causes Orthopedics Osteoarthritis Orthopedics Other non-traumatic joint disorders Orthopedics Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
Open wounds of extremities Orthopedics Superficial injury; contusion Orthopedics Other injuries and conditions due to external causes Orthopedics Osteoarthritis Orthopedics Other non-traumatic joint disorders Orthopedics Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
Superficial injury; contusion Orthopedics Other injuries and conditions due to external causes Orthopedics Osteoarthritis Orthopedics Other non-traumatic joint disorders Orthopedics Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
Other injuries and conditions due to external causes Orthopedics Osteoarthritis Orthopedics Other non-traumatic joint disorders Orthopedics Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
Osteoarthritis Orthopedics Other non-traumatic joint disorders Orthopedics Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
Other non-traumatic joint disorders Orthopedics Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
Spondylosis; intervertebral disc disorders; other back problems Orthopedics Pathological fracture Orthopedics Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
207 Pathological fracture Orthopedics 208 Acquired foot deformities Orthopedics 209 Other acquired deformities Orthopedics Orthopedics 212 Other bone disease and musculoskeletal deformities Orthopedics
Acquired foot deformities Orthopedics Other acquired deformities Orthopedics Orthopedics Other bone disease and musculoskeletal deformities Orthopedics
209 Other acquired deformities Orthopedics Orthopedics 212 Other bone disease and musculoskeletal deformities Orthopedics
Other bone disease and musculoskeletal deformities Orthopedics
·
Joint disorders and dislocations; trauma-related Orthopedics
226 Fracture of neck of femur (hip) Orthopedics
228 Skull and face fractures Orthopedics
229 Fracture of upper limb Orthopedics
230 Fracture of lower limb Orthopedics
Other fractures Orthopedics
232 Sprains and strains Orthopedics
56 Cystic fibrosis Pulmonary
Pneumonia (except that caused by tuberculosis or sexually transmitted disease)
Pulmonary
123 Influenza Pulmonary
125 Acute bronchitis Pulmonary
126 Other upper respiratory infections Pulmonary
127 Chronic obstructive pulmonary disease and bronchiectasis Pulmonary
128 Asthma Pulmonary
129 Aspiration pneumonitis; food/vomitus Pulmonary
130 Pleurisy; pneumothorax; pulmonary collapse Pulmonary
131 Respiratory failure; insufficiency; arrest (adult) Pulmonary
Lung disease due to external agents Pulmonary
Other lower respiratory disease Pulmonary
55 Fluid and electrolyte disorders Renal
98 Essential hypertension Renal
99 Hypertension with complications and secondary hypertension Renal

156	Nephritis; nephrosis; renal se	clerosis	Renal
157	Acute and unspecified renal	failure	Renal
158	Chronic kidney disease	Renal	