Methodology U.S. News & World Report 2018-19 Best Hospitals: Specialty Rankings

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Executive Summary

U.S. News & World Report began publishing hospital rankings in 1990, as "America's Best Hospitals," to identify the medical centers in various specialties best suited to patients whose illnesses pose unusual challenges because of underlying conditions, procedure difficulty, advanced age or other medical issues that add risk.

The specialty rankings have appeared annually since 1990 and their focus on identifying hospitals that excel in treating particularly difficult patients has not changed. To address patients in relatively low-acuity procedures and conditions, a new complementary set of ratings, "Best Hospitals for Common Care," was introduced in 2015. Hospital performance was evaluated in coronary artery bypass surgery, hip replacement, knee replacement, treatment of congestive heart failure and treatment of chronic obstructive pulmonary disease. The ratings were renamed "Best Hospitals: Procedures and Conditions" in 2016, and abdominal aortic aneurysm repair, aortic valve surgery, colon cancer surgery and lung cancer surgery were added. (Details of these ratings are available at http://health.usnews.com/health-care/best-hospitals/articles/faq-how-and-why-we-rank-and-rate-hospitals.)

The Best Hospitals specialty rankings assess hospital performance in 16 specialties or specialty areas, from Cancer to Urology. In 12 of these, whether and how high a hospital is ranked is determined by an extensive data-driven analysis combining performance measures in three primary dimensions of healthcare: structure, process/expert opinion, and outcomes. In the four other specialties, ranking relies on hospital reputation, determined by U.S. News surveys of physicians.

The structural measures include hospital volume, nurse staffing and other resources that define the hospital environment. The data source for most structural measures is the American Hospital Association (AHA) Annual Survey. Additional resources include the National Cancer Institute's list of NIH-designated cancer centers and the American Nurses Credentialing Center's roster of Nurse Magnet hospitals.

Process is represented by two factors. One is a hospital's reputation for developing and sustaining a system that delivers high-quality care, as determined by the surveys of board-certified physicians cited above (i.e., expert opinion). The other, shared with the outcomes dimension, is an indicator of patient safety. The basis for this is that the extent to which patients are protected from preventable death and harm is largely a function of the processes in place. When a patient needlessly dies or suffers injury, this reflects not only as an evident outcome but also as a failure of appropriate hospital processes.

Assessment of outcomes performance relies mostly on survival (i.e., risk-adjusted mortality). The Standard Analytical Files (SAF), maintained by the Centers for Medicare & Medicaid Services (CMS) and also referred to as the Medicare claims files, provide detailed claims data, including mortality, for beneficiaries in fee-for-service Medicare.

The SAF databases are also the source of patient safety data other than for hospitals in Maryland. For Maryland hospitals, patient safety data were taken from the state Health Services Cost Review Commission (HSCRC) all-payer database; analysis was limited to fee-for-service Medicare beneficiaries to be equivalent to the patient population in the SAF.

No application, data submission or other action is required for Best Hospitals consideration. All facilities in the AHA universe of community hospitals are automatically considered but must meet a series of eligibility requirements.

Initial eligibility requires that a hospital must meet at least one of the following four conditions:

- It is a teaching hospital, or
- It is affiliated with a medical school, or
- It has at least 200 beds, or
- It has at least 100 beds *and* offers at least four medical technologies from a list of eight that U.S. News deems significant for a Best Hospitals patient population.

Ranking in a particular specialty imposes a second eligibility requirement. Hospitals must meet a volume/discharge threshold that varies by specialty. Setting discharge minimums ensures that ranking-eligible hospitals have demonstrable experience in treating a set number of complex cases in a given specialty. A hospital that does not meet the minimum requirement in a specialty is still eligible, however, if it was nominated by at least 1% of those who responded to the most recent three years of national physician surveys.

Rankings in Ophthalmology, Psychiatry, Rehabilitation, and Rheumatology do not depend on hard data. In these four specialties, hospitals are ranked solely on reputation as determined by the physician survey cited above.

For the 2018-19 rankings, 158 of over 4,500 evaluated U.S. hospitals were ranked in at least one specialty.

Since 1990, the Best Hospitals Honor Roll has recognized a small group of hospitals with high rankings in multiple Best Hospitals specialties. It was extensively revised in 2016-17 to reduce the effect of reputation and to unify the rankings and ratings by incorporating Best Hospitals Procedures and Conditions ratings. See section *V. Honor Roll* for more details.

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I. Introduction

For families facing a serious or complex medical problem, finding the right hospital is daunting but critical. Decision tools beyond a doctor's recommendation, however, were nonexistent until 1990, when U.S. News & World Report introduced "America's Best Hospitals." That initial assessment was modest, only short alphabetical lists of hospitals that were rated—not ranked—in 12 specialties. In 1991 and thereafter, hospitals were ordinally ranked.

The 2018-19 Best Hospitals rankings have been drawn from a universe of 4,656 facilities.* The defined universe was the American Hospital Association's (AHA's) Annual Survey of Hospitals, which also provided some data for the rankings analysis. In a small number of cases, two or more AHA hospitals were combined for ranking purposes because they function as a single hospital in one or more specialties but report to AHA as separate facilities.

In 12 of the 16 adult specialty rankings, hospitals receive a composite score based on data from multiple sources. Unranked as well as ranked hospitals, accompanied by substantive data, are published online at www.usnews.com/besthospitals/rankings. A print edition publishes ranked hospitals, with somewhat less data displayed than online.

It is essential to use the Best Hospital rankings for their intended purpose—to help consumers determine which hospitals provide the best care for the *most serious or complicated* medical conditions and procedures, such as pancreatic cancer, or replacement of a heart valve in an elderly patient with multiple comorbidities. Relatively commonplace conditions and procedures, such as uncomplicated heart bypass surgery, knee replacement, and heart failure are the purview of a different analysis, Best Hospitals: Procedures and Conditions.[†]

The underlying methodology for the Best Hospitals rankings was created by the National Opinion Research Center (NORC) at the University of Chicago in the early 1990s. NORC collected the data and compiled the rankings from 1993 to 2004. RTI International,[‡] Research Triangle Park, N.C., has produced the rankings from 2005 to the present. Over time, the methodology has been refined and extended—by incorporating patient safety data in 2009, for example, and a measure for

^{*} Military installations, federal institutions, rehabilitation, and acute long-term care facilities and institutional hospital units (e.g., prison hospitals, college infirmaries) are excluded from the data-driven specialties.

[†] Best Hospitals: Procedures and Conditions was launched in May 2015 and rates hospital performance in nine frequently encountered procedures and conditions.

[‡] RTI International is a trade name of Research Triangle Institute.

voluntary data transparency in one specialty in 2016-17. Large-scale enhancements are always under consideration.

The roster of specialties has been revised over the years as well. AIDS care, for example, was included in 1990 but was dropped in 1998 because most AIDS care had shifted to the outpatient setting. Pediatrics was moved out of the Best Hospitals universe in 2007 when separate Best Children's Hospitals rankings were created. Best Hospitals specialties were neither added nor removed for 2018-19.§

The current 16 specialty rankings are:

- Cancer
- Cardiology & Heart Surgery
- Diabetes & Endocrinology
- Ear, Nose & Throat
- Gastroenterology & GI Surgery
- Geriatrics
- Gynecology
- Nephrology

- Neurology & Neurosurgery
- Ophthalmology
- Orthopedics
- Pulmonology
- Psychiatry
- Rehabilitation
- Rheumatology
- Urology

A. Data-Driven Rankings

As in previous years, rankings in 12 of the 16 specialties are based largely on hard data. An overall score is assigned to hospitals in all data-driven specialties; i.e., all specialties other than Ophthalmology, Psychiatry, Rehabilitation, and Rheumatology, whose rankings are determined solely through expert opinion.

A hospital's overall score reflects performance in three interlocked dimensions of healthcare: structure, process, and outcomes. The relationship was described by Avedis Donabedian in 1966; his model's fundamental soundness has been widely accepted.¹⁻⁵

[§] Because the rankings are released in the middle of the year, U.S. News labels them with the current and following years when referring to them. This applies to Best Children's Hospitals as well.

Structure refers to hospital resources related directly to patient care. Examples in the Best Hospitals rankings methodology include intensity of nurse staffing, availability of desirable technologies and patient services, and special status conferred by a recognized external body, such as designation as a Nurse Magnet hospital by the American Nurses Credentialing Center (ANCC) or as a National Cancer Institute (NCI) comprehensive or clinical cancer center by the National Institutes of Health (NIH).

Healthcare also is shaped by the *process* of delivering care, encompassing diagnosis, treatment, prevention, and patient education. Because direct measures of process have limited relevance to the types of highly complex specialty care that is the focus of this project, a measure of expert opinion is used as a proxy for process quality. Specifically, process is represented by a hospital's reputation for developing and sustaining a system that delivers high-quality care.

The most evident *outcomes* measure is death, typically measured by *risk-adjusted mortality* (the likelihood of death when the patient's condition and the complexity of the case are taken into account). To address the role of socioeconomic factors in outcomes, the rankings now include an adjustment to risk-adjusted mortality to take into account patients who are both Medicare- and Medicaid-eligible.

Available metrics do not always neatly conform to a single dimension. Complications of care that compromise patient safety, for example, are outcomes that also reflect a flaw in the process of delivering care and may be affected by structural elements. Although patient safety overlaps with both process and outcomes, we consider it a fourth component in the Best Hospitals methodology, evaluated separately from structure, process/expert opinion, and outcomes.

A fifth component, public transparency, was added to Cardiology & Heart Surgery for the 2016-17 rankings. Hospitals received credit for participating in American College of Cardiology (ACC) or the Society of Thoracic Surgeons (STS) data-reporting initiatives if they also agreed to allow their ACC- and/or STS-calculated results to be publicly reported on the organizations' websites.

Many of the individual measures in the data-driven rankings come from secondary data sources such as the AHA Annual Survey Database, which provides information about various structural hospital characteristics.

The five major components of the data-driven rankings are briefly described below and in more detail later.

Structure

These elements represent volume (i.e., discharges), technology, and other features that characterize the hospital environment. Some elements such as nurse staffing, intensivists, and Nurse Magnet status are included in all specialties, while other elements are specialty-specific. The source for many of these data elements in the 2018-19 rankings was the 2016 AHA Annual Survey, the most recent available.

The source of volume data was the Standard Analytical Files (SAF), maintained by the Centers for Medicare & Medicaid Services (CMS) and also referred to as the Medicare claims files, which provide detailed claims data, for all traditional (fee-for-service) Medicare beneficiaries who use hospital inpatient services. The project previously used data from the Medicare Provider Analysis and Review (MedPAR) database, which includes some inpatients covered by Medicare Advantage managed care.

The change reduced the calculated volumes for most hospitals, since managed-care patients were no longer part of the analysis. Volumes therefore were assigned to hospitals in each specialty using an adjustment to account for the loss of Medicare Advantage patients from the analysis (see, Number of Patients on page 14). As a result, the volumes reported represent estimates rather than observed volumes of care at each hospital.

The SAF databases were also the source of inpatient safety data other than for hospitals in Maryland. For hospitals in that state, patient safety data were taken from the state Health Services Cost Review Commission (HSCRC) all-payer database; analysis was limited to fee-for-service Medicare beneficiaries to be equivalent to the patient population in the SAF.

Process/expert opinion

The process/expert opinion component of the overall score is represented by a hospital's reputation. For these rankings, the concept of reputation speaks to an institutional ability to develop and sustain a system that delivers high-quality care to especially challenging patients.

A hospital's reputational score is based on the average number of nominations from the three most recent annual surveys of board-certified physicians conducted for the Best Hospitals rankings which, for the 2018-19 rankings, were conducted in 2016, 2017, and 2018.

The 2018 sample was drawn from the Doximity Masterfile. Similar to the AMA Physician Masterfile, which was used as the sampling frame prior to 2016, Doximity's comprehensive

Physician Database includes nearly every practicing U.S. physician. More information on the sampling approach for the physician survey can be found in section *II.D.*.

The physician sample was stratified by census region—West, Northeast, South and Midwest (https://www2.census.gov/geo/pdfs/maps-data/maps/reference/us regdiv.pdf)—and by specialty to ensure appropriate representation. The final aggregated sample included both federal and nonfederal medical and osteopathic physicians in all 50 states and the District of Columbia.

The surveyed physicians were asked to nominate the hospitals in their specific field of care, leaving aside issues of expense or location, that they consider best for patients with serious or difficult conditions. They could list as many as five hospitals. (The 2018-19 questionnaire and associated contact materials are shown in *Appendix A*.)

Outcomes

The primary outcomes measure in the 12 data-driven rankings is 30-day mortality; i.e., death within 30 days after admission. Like the volume indicator, the mortality measure is derived from SAF data, so only patients receiving care under traditional Medicare and 65 years of age or older were included. For each hospital and specialty, IBM Watson Health (formerly Truven Health Analytics) computed an adjusted mortality rate based on observed and expected mortality rates using the All Patient Refined Diagnosis Related Group (APR-DRG) and Medicare Severity (MS) Grouper software created by 3M Health Information Systems. APR-DRGs and MS-DRGs use the patient's principal and secondary diagnoses to adjust the value for expected deaths by severity of illness. The method was applied to the three most recent fiscal years (FY2014, FY2015, and FY2016) of Medicare claims submitted for reimbursement to CMS data.

Patient Safety

Patient safety is used to quantify instances when patients may be avoidably harmed or put at risk. For all states except Maryland, data for this component come from the Standard Analytical Files (SAF) maintained by CMS, as explained in Section E; for Maryland hospitals, data for this component were taken from the Health Services Cost Review Commission (HSCRC) all-payer database.

For both datasets used, only Medicare patients receiving fee-for-service care were included in the analyses. The timeframe for these data was the same 3-year period used for volume and mortality analyses in the Best Hospitals rankings. For the 2018-19 rankings, the CMS and HSCRC files used were for federal FY 2014, 2015, and 2016 files. The patient safety score was developed by RTI using the framework described in the *Patient Safety Quality Indicators Composite Measure Workshop*

Final Report, with project-specific modifications. Data were analyzed using the Agency for Healthcare Research and Quality (AHRQ) Patient Safety Indicator (PSI) QI software version 5.01.

Public Transparency (Cardiology and Heart Surgery Only)

As described in Section A, a component worth 3% of the overall score was added for the Cardiology & Heart Surgery specialty in 2016-17. Hospitals received credit for participating in transparency initiatives by publicly reporting quality metrics through websites maintained by the American College of Cardiology (www.cardiosmart.org) and the Society of Thoracic Surgeons (www.sts.org). Support for the use of this measure consists of a demonstrated association between public reporting of evidence-based hospital performance metrics with better quality of care and improved hospital performance. 8-13 Given the relationship between public reporting and outcomes, the rankings are likely to include additional measures of transparency in future years.

Weighting

For the 2018-19 rankings, the weight for each component remains the same as in 2016-17. Weights are shown in *Table 1*.

Table 1. 2018-19 Overall Weight by Component

Component	Cardiology & Heart Surgery Weight (%)	Weight, All Other Specialties (%)
Outcomes	37.5	37.5
Structure	30.0	30.0
Process/expert opinion	24.5	27.5
Patient safety	5.0	5.0
Public transparency	3.0	0.0

B. Reputation-Only Rankings

In the four specialties—Ophthalmology, Psychiatry, Rehabilitation and Rheumatology—in which ranking reflects the results of the reputational survey alone, that is because many structural and outcomes measures are not applicable since care is largely delivered on an outpatient basis and poses a very small risk of death. For this report, these specialties are referred to as *reputation-only specialties* and the associated rankings as *reputation-only rankings*.

C. Report Outline

The remainder of this report is structured as follows:

- **Section II** describes the data-driven components in detail. (For a more detailed review of the foundation, development and use of the individual measures and the composite index, see "Best Hospitals: A Description of the Methodology for the Index of Hospital Quality."¹⁴)
- **Section III** describes the process used to develop the rankings for the four reputation-only specialties.
- Section IV describes the number of hospitals ranked in at least one specialty.
- **Section V** presents the Honor Roll, an additional classification that denotes excellence across a broad range of specialties, procedures and conditions.
- Section VI summarizes changes in the methodology from 2005 to the present.
- Section VII describes improvements under consideration.

II. Data-Driven Rankings

This section describes hospital eligibility criteria and the procedures used to derive the overall score for the 12 data-driven specialties. Hospitals ranked in 2018-19 as a result of new or merged corporate entities in the AHA database are treated as single units and are listed as such in this report.

A. Eligibility

All 4,656 community hospitals included in the FY2016 AHA universe were automatically considered for ranking;** no request, application or other action was required. For the data-driven specialties, the methodology involved two stages of eligibility criteria; hospitals had to satisfy the requirements of each stage to be eligible in a given specialty.

Stage 1. A hospital that met *any* of the following criteria was initially eligible:

• Member, Council of Teaching Hospitals (COTH)

^{**} Military installations, federal institutions, rehabilitation, and acute long-term care facilities, and also institutional hospital units (e.g., prison hospitals, college infirmaries) were excluded.

- Medical school affiliation (AMA or American Osteopathic Association [AOA])
- At least 200 hospital beds set up and staffed (from FY2016 AHA Annual Survey of Hospitals, variable BDTOT)
- At least 100 hospital beds set up and staffed *and* availability of at least four of eight important key technologies (see *Advanced Technologies*).

Hospitals that met Stage 1 and responded to the AHA Annual Survey of Hospitals in 2014 and 2015 but not in 2016 remained eligible. For such hospitals, we used survey data from 2015. Nonresponders lacking data from the current survey and one of the previous two surveys were evaluated without AHA data. A total of 2,264 hospitals successfully passed the first stage of the eligibility process.

Stage 2. To be eligible for ranking in a specialty, a hospital had to have a specified number of discharges in a defined list of specialty-specific diagnoses submitted for CMS reimbursement in FY2014, FY2015, and FY2016 combined. Setting discharge minimums involving complex care ensures that ranking-eligible hospitals can demonstrate that they have treated adequate numbers of challenging cases in a given specialty. As in past years, the discharge minimums this year included only cases that met the minimum severity of illness thresholds set by the project, using APR-DRGs. Minimums for all specialties will be reviewed for future rankings and adjusted as needed.

Minimum thresholds for total discharges were set in all data driven specialties. In most specialties, these thresholds were based on discharge counts adjusted for the loss of Medicare Advantage patients: (i.e. MA-adjusted, see Number of Patients on page 14). Three specialties included MA-unadjusted volume measures to determine eligibility: Diabetes & Endocrinology, Ear, Nose & Throat, and Gynecology.

In Cancer and in Diabetes & Endocrinology, total discharge minimum thresholds are equal to the median MA-adjusted volume for hospitals passing Stage 1 eligibility. In all other specialties except Cardiology & Heart Surgery^{††}, the threshold is equal to the 25th percentile of MA-adjusted volume. In Ear, Nose & Throat, a hospital must also have an MA-unadjusted volume of 45 cases or greater. In Diabetes & Endocrinology and Gynecology, a hospital must also have an MA-unadjusted volume of 50 cases or greater. In all other specialties, a hospital must also have an MA-adjusted volume of 25 cases or greater.

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^{††} Prior to RTI's involvement in the rankings in 2005, the minimum number of surgical discharges in Cardiology & Heart Surgery was set to 500. For hospitals meeting the minimum, a ratio of total-to-surgical discharges was calculated. The median of this ratio was then multiplied by 500 to determine a minimum number for all discharges.

In addition to total discharge thresholds, specific proportions of MA-adjusted medical and surgical discharges were specified for Cancer; Gastroenterology & GI Surgery; Ear, Nose & Throat; Gynecology; Neurology & Neurosurgery; Orthopedics, and Urology. For these specialties, we calculated the median ratio of surgical-to-total discharges for hospitals meeting the total discharge threshold. In each of these specialties except Neurology & Neurosurgery, the median ratio was multiplied by the calculated minimum total discharge threshold to determine the minimum number of surgical discharges for eligibility. In Neurology & Neurosurgery, the 25th percentile of the median ratio itself was used as the surgical discharge threshold. This exception was made to address excessive bias in mortality rates for hospitals with a very low ratio of surgical-to-total discharges.

A hospital with below-minimum volume was considered eligible in a specialty if its reputation score was 1% or greater.

Table 2 presents the minimum MA-adjusted discharge volumes (unless otherwise specified) required for eligibility and numbers of hospitals meeting the MA-adjusted volume criteria for the data-driven specialties. **Table 2** also shows the total number of hospitals in each specialty that did not meet the MA-adjusted volume eligibility but became eligible because they had a reputation score of 1% or higher.

A total of 1,895 hospitals met the volume criteria in at least one specialty, and two other hospitals became eligible because they had a 1% or higher reputation score in at least one specialty. In all, 1,897 unique hospitals were deemed eligible for at least 1 of the 12 data-driven specialties under the full criteria.

In Geriatrics, an additional step excluded hospitals classified in the AHA survey data as surgical hospitals or as specializing in heart or orthopedics. The basis for the exclusions was that Geriatrics as defined in Best Hospitals represents a broad swath of patients across all service lines. A surgical or specialty hospital treats subsets of those patients whose clinical needs may not be comparable. This change is reflected in the count of eligible Geriatric hospitals provided in *Table 2*.

We then conducted separate analyses for each specialty to rank the top 50 hospitals in each data-driven specialty and provide overall scores for all evaluated hospitals. *Figure 1* illustrates the eligibility and analysis process for the data-driven specialties, as described in the steps above.

Table 2. Discharge Thresholds by Specialty

Specialty	Discharge Thresholds, Total (Surgical)	Number of Eligible Hospitals Based on Minimum Discharges	Additional Hospitals with ≥ 1% Reputation Score	Final Eligible Total
Cancer	195 (33)	889	0	889
Cardiology & Heart Surgery ^a	1391 (500)	613	0	613
Diabetes & Endocrinology ^b	120 (0)	1,089	1	1,090
Ear, Nose & Throat ^b	45 (4)	184	3	187
Gastroenterology & GI Surgery	430 (112)	1,575	0	1,575
Geriatrics ^c	2367 (0)	1,516	0	1,516
Gynecology ^b	50 (5)	313	6	319
Nephrology	192 (0)	1,639	0	1,639
Neurology & Neurosurgery	237 (18)	1,236	0	1,236
Orthopedics	302 (275)	1,643	0	1,643
Pulmonology	1075 (0)	1,668	0	1,668
Urology	42 (17)	1,476	0	1,476
Total (unique hospitals) ^d	Not Applicable	1,895	10	1,897

^a In addition to discharge- or reputation-based eligibility, a hospital must offer cardiac intensive care, adult interventional cardiac catheterization and adult cardiac surgery.

B. Structure

The structural dimension defines the tools, human and otherwise, available at hospitals for treating patients. Healthcare research overwhelmingly supports the use of a structural measure to assess quality of care. No prior research, however, has identified a structural indicator that summarizes all others or that adequately represents the structural dimension construct on its own. Therefore, the structural component is represented by a composite variable consisting of different specialty-specific measures with different weights.

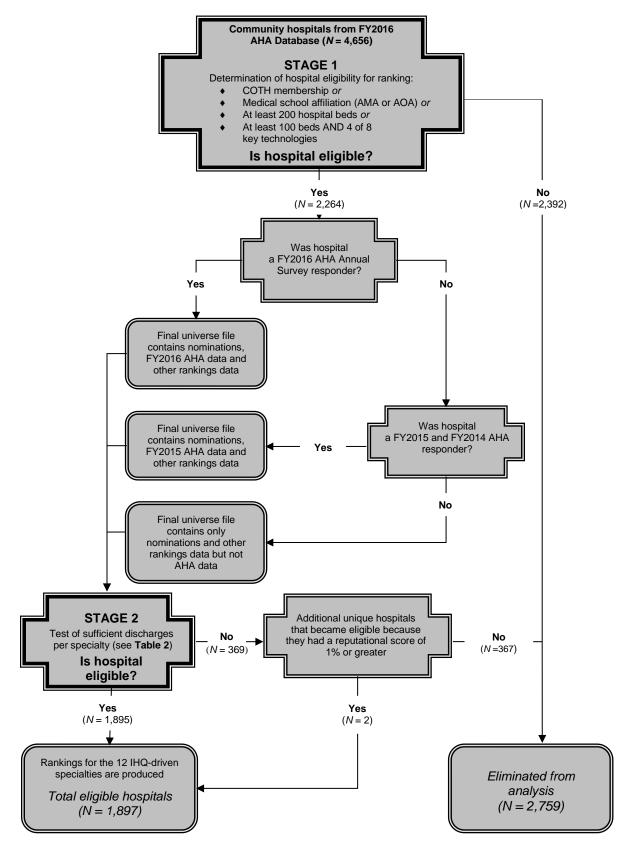
For the 2018-19 rankings, the source of most structural elements was the FY2016 AHA Annual Survey Database. Additional components came from external organizations including the National Cancer Institute (NCI), American Nurses Credentialing Center (ANCC), Foundation for the Accreditation of Cellular Therapy (FACT), National Institute on Aging (NIA), National Association of Epilepsy Centers (NAEC), CMS and HSCRC.

b Total discharge minimums for this specialty are based on the unadjusted volume.

^c In addition to discharge- or reputation-based eligibility, a hospital must offer at least one of the following services: arthritis treatment center, adult day care program, patient representative services, geriatric services, meals on wheels, assisted living, transportation to health facility, or Alzheimer's center service.

^d The totals are not sums. The same hospitals may be eligible in multiple specialties. This line represents the total unique hospitals in each category across all specialties.

Figure 1. Eligibility and Analysis Process, Data-Driven Specialties



AHA Annual Survey

AHA has surveyed hospitals annually since 1946. The AHA Annual Survey of Hospitals is the most comprehensive and dependable database of information on institutional healthcare, ¹⁵ with an average annual response rate of 85%. The database contains hospital-specific data items for more than 6,200 hospitals and healthcare systems. More than 900 data fields cover organizational structure, personnel, hospital facilities and services, and financial performance. (The specific mapping of Best Hospitals variables to AHA data elements is shown in *Appendix B*.)

Hospitals that did not respond to the 2016 AHA Annual Survey but responded to the 2015 survey were evaluated using their 2015 responses. Hospitals that did not respond to the AHA survey in either year were evaluated without AHA data, receiving no points for measures in the AHA annual survey.

The following items from the AHA Annual Survey Database provided most of the structural score for the data-driven specialties.

Advanced Technologies

The elements in this measure are reviewed every year in each specialty to remain consistent with the key technologies and advanced care expected from a "best hospital." In the 2018-19 rankings, credit was awarded to hospitals that either (1) own or provide a specified service at the hospital or its subsidiaries, (2) provide the service through their health system (in their local community), or (3) provide the service through formal arrangements with local institutions not in their health system.

Of the 15 technologies that are relevant in one or more specialties, 8 comprise the Technology index that is one of the eligibility doorways: Hospitals that provide at least 4 of the 8 relevant technologies and have 100 beds or more are eligible for ranking (see Section *II.A. Eligibility*).

Brief descriptions of the technologies in the 2018-19 index follow. The definitions are taken largely from the 2016 AHA Annual Survey, expanded as necessary:

• Ablation of Barrett's esophagus. A premalignant condition that can lead to adenocarcinoma of the esophagus. The nonsurgical ablation of premalignant tissue in Barrett's esophagus is done by the application of thermal energy or light through an endoscope passed from the mouth into the esophagus.

- Computer-assisted orthopedic surgery. A group of orthopedic devices that produce three-dimensional images to assist in surgical procedures.
- **Diagnostic radioisotope services.** A procedure that uses radioactive isotopes (radiopharmaceuticals) as tracers to detect abnormal conditions or diseases.
- Endoscopic retrograde cholangiopancreatography. A procedure in which a catheter is introduced through an endoscope into the bile and pancreatic ducts. Injection of contrast material permits detailed x-ray of these structures. The procedure is used diagnostically as well as therapeutically to relieve obstruction or remove stones.
- Endoscopic ultrasound. A specially designed endoscope that incorporates an ultrasound transducer to obtain detailed images of organs in the chest and abdomen. The endoscope can be passed through the mouth or anus. Combined with needle biopsy, the procedure can assist in diagnosis of disease and staging of cancer.
- Full-field digital mammography. A procedure that combines x-ray generators and tubes used in analog screen-film mammography with a detector plate that converts the x-rays into a digital signal to help diagnose breast cancer.
- Image-guided radiation therapy. An automated system that provides high-resolution x-ray images to pinpoint tumor sites, adjusts patient positioning as necessary and completes treatment within the standard treatment time slot, allowing for more effective cancer treatments.
- Intensity-modulated radiation therapy (IMRT). A type of radiation therapy used to treat tumors. IMRT manipulates beams of radiation to the shape of the tumor. Beams of varying intensity can be used to radiate the tumor with precision. By using IMRT, physicians can focus on the tumor and avoid exposing healthy tissue to radiation, which causes a variety of negative treatment side effects.
- Multislice spiral computed tomography (CT). A procedure that uses x-rays and data processing to produce multiple narrow slices that can be recombined into detailed three-dimensional pictures of the internal anatomy.^{‡‡}
- **PET/CT scanner.** A machine that combines positron emission tomography (PET) and CT capabilities in one device to provide metabolic functional information and images of physical structures in the body for diagnostics and monitoring chemotherapy, radiotherapy, and surgical planning.
- **Robotic surgery.** The use of computer-guided imaging and manipulative devices to perform surgery without the surgeon's direct intervention.

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[#]The indicator for multislice spiral CT includes both standard (less than 64 slices) and advanced (64 or more slices) versions of the technology. Hospitals can receive credit for either version.

- **Shaped-beam radiation.** A noninvasive procedure that delivers a therapeutic dose of radiation to a defined area of a tumor to shrink or destroy cancerous cells.
- **Single-photon-emission CT.** A nuclear medicine imaging technology that combines radioactive material with CT imaging to highlight blood flow to tissues and organs.
- Stereotactic radiosurgery. A radiotherapy modality that delivers a high dosage of radiation to a discrete treatment area in as few as one treatment session. Variants include Gamma knife and Cyberknife.
- Transplant services. Includes Medicare-approved organ transplant programs in heart, liver, lung, or kidney transplant recognized by CMS. In addition, hospitals listed as bone marrow and tissue transplant centers by AHA are recognized. Transplant services are specific to the specialty. In the Cancer specialty, transplant services include bone marrow and other tissue transplants; Gastroenterology & GI Surgery includes liver transplant; Cardiology & Heart Surgery includes heart transplant and tissue transplant; Nephrology includes kidney transplant; Pulmonology includes lung transplant; Orthopedics includes tissue transplant.

Specialty-specific mixes of key technologies are used in computing the U.S. News scores (see Section *II.G. Calculation of the Overall Score for the Data-Driven Specialties*). *Table 3* presents the complete list of key technologies considered for each specialty in 2018-19.

Number of Patients

This measure reflects the volume of medical and surgical discharges in indicated specialty-specific MS-DRG groupings submitted for CMS reimbursement in FY2014, FY2015, and FY2016 combined. The list of MS-DRGs in each specialty is displayed in *Appendix C*. Volume is part of the structural score in all 12 data-driven specialties. Volumes include all cases, including transfers, that appeared in SAF databases for the specified MS-DRGs that met the minimum severity thresholds (i.e., equal to or greater than the "severity" listed in *Appendix C*).

Table 3. Technologies by Specialty

Technology	Technology Index	Cancer	Cardiology & Heart Surgery ^{§§}	Diabetes & Endocrinology	Ear, Nose & Throat	Gastroenterology & GI Surgery	Geriatrics	Gynecology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology	Urology
Ablation of Barrett's esophagus						•							
Computer-assisted orthopedic surgery											•		
Diagnostic radioisotope services	•			•		•			•	•		•	•
Endoscopic retrograde cholangiopancreatography						•							
Endoscopic ultrasound						•							
Full-field digital mammography	•	•						•					
Image-guided radiation therapy	•	•		•		•		•	•	•		•	•
Intensity-modulated radiation therapy		•											•
Multislice spiral CT	•		•						•			•	
PET/CT scanner	•	•	•	•				•	•	•		•	•
Robotic surgery	•	•	•					•	•				•
Shaped-beam radiation		•											
Single-photon-emission CT	•		•							•			
Stereotactic radiosurgery	•	•		•	•	•		•	•	•		•	•
Transplant services		•	•			•			•		•	•	
Total Elements	8	8	6	4	1	7	0	5	7	5	2	6	6

• Included in the measure for the specialty.

^{§§} Five measures are listed, but hospitals can receive up to six points in Cardiology & Heart Surgery because two points are possible for transplant services—one point for heart transplant services and one point for tissue transplant services.

Volume data, as described on Page 4, include Medicare fee-for-service patients who were 65 years of age or older; Medicare Advantage managed-care patients are not included in SAF datasets. Patient selection for outcomes analysis is the same, as described on Page 5. To address the decline in volumes caused by moving to the SAF datasets, reported volumes received an adjustment to account for the loss of Medicare Advantage patients from the analysis. The numerator for the volume calculation was the number of fee-for-service discharges meeting the criteria for inclusion in the specialty. The denominator was the proportion of Medicare beneficiaries enrolled in fee-for-service (as opposed to Medicare Advantage) in the county in which the hospital is located. The denominator was calculated by subtracting from 1.0 the CMS Medicare Advantage penetration estimates, expressed as a decimal less than 1.0, for June 2014. As a result, the volumes reported represent estimates rather than observed volumes of care at each hospital.

To reduce the effect of outliers, we adjusted raw specialty volumes with values above the 75th percentile. Hospitals with volumes at or above the 75th percentile in each specialty were assigned an *outlier-adjusted volume*, created from a weighted average of the hospital's observed volume and the volume for all hospitals at or under the 75th percentile. This adjustment factor was equal to the average volume for all hospitals at or below the 75th percentile. For each percentile above the 75th, the weight applied to the adjustment factor was increased by a value of .01. Therefore, if:

```
a = amount over the 75^{th} percentile (.01, .02, ... .25),
b = average volume for hospitals at or under the 75^{th} percentile, and c = an individual hospital's raw volume,
```

then the volume for hospitals in the top quartile in the rankings = a*b + (1-a)*c.

The value displayed in print is the MA-adjusted, outlier-unadjusted raw volume. *Table 4* provides the minimum MA-adjusted, outlier-unadjusted volume, the MA-adjusted, outlier-unadjusted 75th-percentile volume, and the maximum MA-adjusted, outlier-unadjusted volume in each specialty along with the average volume for hospitals below the 75th percentile.

Nurse Staffing

The nurse staffing index is a ratio that reflects the combined intensity of inpatient and outpatient nursing. The numerator is the total number of on-staff registered nurses (RNs), expressed as full-time equivalents (FTEs); for example, two half-time nurses are the equivalent of one FTE. Only nurses with an RN degree from an approved nursing school and current state registration are considered. The denominator is the adjusted average daily census of patients, a variable created by AHA for U.S. News.

Table 4. Discharge Distribution by Specialty

Specialty	Minimum Volume	75th Percentile Volume	Maximum Volume	Average Volume, 1 st -75 th percentile
Cancer	198	727	7,855	412
Cardiology & Heart Surgery	1,391	4,665	18,420	2,948
Diabetes & Endocrinology	109	285	1,369	184
Ear, Nose & Throat	< 11	183	670	105
Gastroenterology & GI Surgery	430	1,823	11,701	1,035
Geriatrics	2,367	9,449	59,853	5,352
Gynecology	28	185	642	115
Nephrology	192	760	5,689	436
Neurology & Neurosurgery	238	1,728	8,233	875
Orthopedics	305	1,606	14,987	821
Pulmonology	1,075	3,492	18,289	2,120
Urology	42	240	2,404	128

The measure estimates the total amount of care devoted to both inpatients and outpatients by reflecting days of inpatient care plus the estimated volume of outpatients. This index gives more weight to inpatient care while recognizing that outpatient care represents most hospital visits. The components of this index are derived from the AHA database. As with volume, extreme values were similarly adjusted to reduce the influence of wide variation. Therefore, the nurse staffing value for hospitals in the top quartile, which was at or above a nurse staffing value of 1.76 for 2018-19, is equal to a*b + (1-a)*c, where:

a = amount over the 75th percentile (.01, .02......25),

b = 1.24, the average nurse staffing volume for hospitals in the bottom 75^{th} percentile, and

c = an individual hospital's raw nurse staffing value.

Figure 2 shows an example of nurse staffing values before and after adjustment.

Starting with the 2017-18 rankings, three changes to the Nurse Staffing Score were implemented. First, the calculation now includes a correction for hospitals that provide skilled nursing onsite and report a total that combines both inpatient and skilled nursing. The nursing FTEs associated with the skilled nursing were removed from the numerator and a corrected adjusted average daily census was used for the denominator. The corrected adjusted average daily census values for hospitals affected by this change were calculated by the AHA and provided directly to the project.

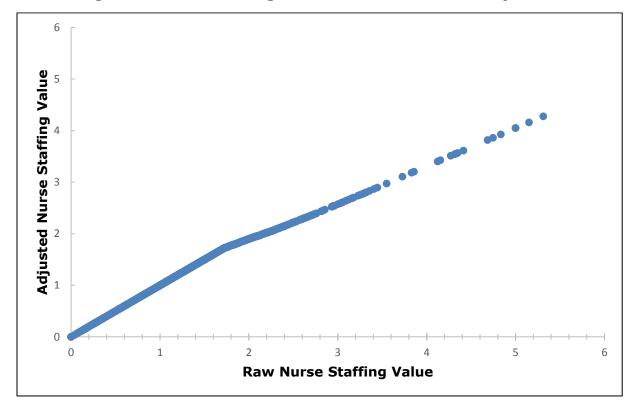


Figure 2. Nurse Staffing Values Before and After Adjustment

Second, to address problems with missing values in the AHA dataset for several hospitals for the FTEN variable, which is the principal nursing FTE variable, the rankings now impute missing FTEN values. The project selects hospitals that do not have extreme nurse staffing ratios (i.e., are not outliers) and imputes the value of FTEN using the current values of the following variables in the reference population: FTEN (Full time equivalent registered nurses reported), FTERN (Full time equivalent registered nurses estimated), ADJADC (Adjusted Average Daily Census) and BDTOT (total hospital beds set up and staffed).

Third, to address volatility in the nurse staffing measure for hospitals with relatively low patient volumes, we now adjust the nurse staffing values for hospitals in the lowest quartile of adjusted average daily patient census. The nurse staffing ratio is adjusted using the formula 2a*b + (1-2a)*c, where

- a = amount under the 25th percentile on ADJADC (.01, .02,25),
- b = average adjusted nurse staffing
- c = an individual hospital's nurse staffing.

The formula creates a blended rate that incorporates both the observed rate and the average adjusted nurse staffing rate for eligible hospitals.

Trauma Center

In a U.S. News survey of board-certified physicians, respondents ranked the presence of an emergency room and status as a Level 1 or Level 2 trauma care provider high on a list of hospital quality indicators. Physicians in nine specialties ranked trauma center status as one of the top five indicators of quality. Their recommendations and the resulting high factor loadings supported inclusion of a trauma measure in Ear, Nose & Throat, Gastroenterology & GI Surgery, Cardiology & Heart Surgery, Nephrology; Neurology & Neurosurgery, Orthopedics, Pulmonology, and Urology.

Two variables in the AHA Annual Survey Database provide the required data. Both must be answered. One variable indicates the presence of a state-certified trauma center in the hospital (as opposed to trauma services provided only as part of a health system or joint venture). The second variable indicates trauma center level. The trauma center indicator is dichotomous. To receive credit of 1 point, a hospital must be a Level 1 or Level 2 trauma center***. The AHA defines Level 1 as "a regional resource trauma center, which is capable of providing total care for every aspect of injury and plays a leadership role in trauma research and education." Level 2 is "a community trauma center, which is capable of providing trauma care to all but the most severely injured patients who require highly specialized care."

Patient Services

Patient services encompass major conveniences for patients. Among others, they include translators, advanced or especially sophisticated care, and services either considered clinically essential in a comprehensive, high-quality hospital, such as cardiac rehabilitation, or reflective of forward thinking and sensitivity to community needs, such as genetic testing or counseling. All items are taken from the AHA Annual Survey.

Brief descriptions of patient services included in the 2018-19 index follow. The definitions are taken from the AHA Annual Survey of Hospitals (and expanded as necessary).

• Alzheimer's center. A facility that cares for individuals with Alzheimer's disease and the patients' families through an integrated program of clinical services, research and education. As with all items in this survey, each hospital determines whether the service is offered, based on the AHA description. This index differs from designation as an NIA Alzheimer's center, which is a higher-order designation and is

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^{***} The highest two levels of this designation are equivalent to the top two levels of the American College of Surgeons trauma center certification and can be used by hospitals in states that do not certify trauma centers.

treated as a separate structural measure in Geriatrics and in Neurology & Neurosurgery.

- **Arthritis treatment center.** A center specifically equipped and staffed for diagnosing and treating arthritis and other joint disorders.
- Cardiac rehabilitation. A medically supervised program to help heart patients
 recover quickly and improve their overall physical and mental functioning in order to
 reduce risk of another cardiac event or to keep a current heart condition from
 worsening.
- **Fertility clinic.** A specialized program set in an infertility center that provides counseling and education, as well as advanced reproductive techniques.
- Genetic testing/counseling. A service equipped with adequate laboratory facilities
 and directed by a qualified physician to advise parents and prospective parents on
 potential problems in cases of genetic defects.
- **Hospice.** A program that provides care (including pain relief) and supportive services for the terminally ill and their families.
- **Infection isolation room.** A single-occupancy room designed to minimize the possibility of infectious transmission, typically through the use of controlled ventilation, air pressure, and filtration.
- **Pain-management program.** A program that provides specialized care, medications or therapies for the management of acute or chronic pain.
- Palliative care. A program that provides specially trained physicians and other clinicians to relieve acute or chronic pain or to control symptoms of illness.
- Patient-controlled analgesia. A system that allows the patient to control intravenously administered pain medicine.
- **Psychiatry–geriatric service.** A psychiatric service that specializes in the diagnosis and treatment of geriatric medical patients.
- **Translators.** A service provided by the hospital to assist patients who do not speak English.
- Wound-management services. Services for patients with chronic and non-healing
 wounds that often result from diabetes, poor circulation, sitting or reclining
 improperly, and immunocompromising conditions. The goals are to progress chronic
 wounds through stages of healing, reduce and eliminate infections, increase physical
 function to minimize complications from current wounds, and prevent future

chronic wounds. Services are provided on an inpatient or outpatient basis depending on the intensity of service needed.

From seven to nine services are included in each specialty. Hospitals receive 1 point for each specified service provided on- or off-site either (1) by the hospital or its subsidiaries, (2) by the hospital's health system in the local community, or (3) by another institution in the local community through formal arrangement or joint venture. *Table 5* displays patient services by specialty.

Table 5. Patient Services by Specialty

Service	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Ear, Nose & Throat	Gastroenterology & GI Surgery	Geriatrics	Gynecology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology	Urology
1. Alzheimer's center						•			•			
2. Arthritis treatment center						•				•		
3. Cardiac rehabilitation		•										
4. Fertility clinic							•					•
5. Genetic testing/counseling	•		•	•	•		•	•	•		•	•
6. Hospice	•	•	•	•	•	•	•	•	•	•	•	•
7. Infection isolation room	•		•	•	•		•	•	•		•	•
8. Pain-management program	•	•	•	•	•	•	•	•	•	•	•	•
9. Palliative care	•	•	•	•	•	•	•	•	•	•	•	•
10. Patient-controlled analgesia	•	•	•	•	•	•	•	•	•	•	•	•
11. Psychiatry/geriatric service						•						
12. Translators	•	•	•	•	•	•	•	•	•	•	•	•
13. Wound-management services	•	•	•	•	•	•	•	•	•	•	•	•
Total Elements	8	7	8	8	8	9	9	8	9	7	8	9

[•] Included in the index for the specialty.

Intensivists

Intensivists are board-certified physicians with subspecialty or fellowship training in critical-care medicine. They specialize in managing critically ill patients in hospital intensive care units (ICUs). Recent research indicates that better outcomes are associated with the presence of intensivists. The intensivist measure was added in 2009. The 2018-19 rankings award 1 point to hospitals with at least one intensivist FTE, whether on staff or through another arrangement as long as at least one intensivist serves in an adult-focused intensive care unit setting within the hospital. Previously hospitals had to have at least one FTE on staff intensivist. Credit was determined from the FY2016 AHA Annual Survey.

External Organizations

The following describes sources and organizations other than AHA, CMS and HSCRC that provided data for additional structural measures.

NCI-Designated Cancer Center

This indicator was added in 2002. The National Cancer Institute (NCI), an arm of the National Institutes of Health, is the principal federal agency tasked with conducting and sponsoring cancer research and training and promoting research and standards of care by various means, including certification as an NCI-designated cancer center. Such a center is committed to advancing cancer research and, ultimately, reducing cancer incidence and increasing the effectiveness of treatment.¹⁴

NCI-designated centers have three classification levels. The lowest is *cancer center*, denoting a facility that conducts a high volume of advanced federally funded laboratory research. Credit is not awarded for this designation. A *clinical cancer center*, the second level, adds clinical ("bench-to-bedside") research. *Comprehensive cancer center*, the highest level, adds prevention research, community outreach, and service activities.¹⁸

Hospitals designated as NCI clinical or comprehensive cancer centers as of March 1, 2018, were awarded 1 point. Hospitals designated "cancer centers" did not receive credit. NCI updates the list throughout the year. The current list is at http://cancercenters.cancer.gov/Center/CCList.

Nurse Magnet Status

The Nurse Magnet measure, added in all specialties in 2004, is a formal designation by the Magnet Recognition Program[®]. The Magnet Recognition Program was developed by the ANCC to

recognize health care organizations that meet certain quality indicators on specific standards of nursing excellence. The ANCC updates the list of Magnet-recognized facilities throughout the year as organizations apply for designation and redesignation status. U.S. News bases credit for this measure on Magnet Recognition as of January 2, 2018. The current list of Magnet-recognized organizations is shown at https://www.nursingworld.org/organizational-programs/magnet/find-a-magnet-facility/.

Hospitals received 1 point for being recognized as a Nurse Magnet hospital. For hospitals that are part of a special merger^{†††} or a multiplex healthcare system, the primary hospital (the larger of two general acute-care hospitals) is required to have Magnet Recognition status for the combination hospital to receive 1 point. If there is no defined primary hospital, then if either hospital in the special merger has Magnet Recognition status, both receive credit.

NAEC-Designated Epilepsy Center

This index was added to Neurology & Neurosurgery in 2004. One point was awarded to hospitals designated by NAEC as Level 4 epilepsy centers as of March 1, 2018. A Level 4 epilepsy center serves as a regional or national referral facility. These centers provide more complex forms of intensive neurodiagnostic monitoring, as well as more extensive medical, neuropsychological, and psychosocial treatment. Level 4 centers also offer a complete evaluation for epilepsy; surgery, including intracranial electrodes; and a broad range of surgical procedures for epilepsy. NAEC updates its list of hospitals throughout the year. The current list is shown at http://www.naec-epilepsy.org/find.htm.

NIA-Designated Alzheimer's Center

NIA Alzheimer's center certification was added to Geriatrics in 2007 and to Neurology & Neurosurgery in 2008. Evaluation and certification are conducted by NIA, an arm of NIH that translates research advances into improved diagnosis and care of Alzheimer's disease and conducts research on prevention and cures. Recognition means that a hospital provides a high level of care for Alzheimer's patients. Hospitals designated as an NIA Alzheimer's center as of March 7, 2018, received 1 point. Hospitals listed as affiliated centers did not receive credit. The current list of NIA Alzheimer's centers can be accessed at

www.nia.nih.gov/Alzheimers/ResearchInformation/ResearchCenters/.

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^{†††} In a special merger, two separate hospitals operate as one and their data are combined for analysis. Brigham and Women's Hospital and Dana-Farber Cancer Center are an example in Cancer. Specialty or secondary hospitals that are combined with the primary hospital are noted on the US News website for that hospital.

FACT Accreditation

Foundation for the Accreditation of Cellular Therapy (FACT) accreditation was added to Cancer in 2007. This designation indicates that as of March 1, 2018, a hospital met standards set by FACT for transplanting bone marrow or other cellular tissue to treat cancer. One point was given if accreditation was only for *autologous transplants*, in which a patient's own cells are removed and then returned following radiation therapy. Two points were given if accreditation was for *allogeneic transplants*, involving cells donated by another person (allowing for a greater number and more kinds of cell transplants), or for both autologous and allogeneic transplants. The current list of FACT-accredited hospitals can be accessed at www.factwebsite.org.

Normalization

Starting with the 2012-13 rankings, all structural measure values were normalized prior to weighting. Normalization transforms index values into a distribution between 0 and 1 based on the range of possible values for a given measure. Normalizations were done separately for each specialty. Equation (1) is the formula for normalization:

Normalized
$$V$$
 alue = $(X_i - Minimum_i) / (Maximum_i - Minimum_i),$ (1)

where

 X_i = the value for measure i, $Maximum_i$ = the highest possible value for measure i and $Minimum_i$ = the lowest possible value for measure i.

For example, the Advanced Technologies index for Cancer is worth a maximum of 8 points. If a given hospital received 5 out of 8 points, the normalized value for the Advanced Technologies index in Cancer would be (5-0)/(8-0) = 0.63. For all structural measures, other than Number of Patients and Nurse Staffing, the lowest *possible* value is 0 even when the lowest *observed* value is greater than 0. For Number of Patients and Nurse Staffing, the lowest possible value was made equal to the lowest observed value and the highest possible value was made equal to the highest observed value.

Weighting

In 2012, we convened an expert panel to determine appropriate weights for each of the measures. The evaluation was done both across specialties for consistency in weighting and within specialties to identify key measures of quality in a particular specialty. Overall, weights were

determined based on the importance of each measure in defining the overall structural attributes of care within hospitals. *Table 6* shows the relative weight for each of the measures that make up the structural component of the rankings, by specialty. For all specialties, the sum of the weights is 30%, the overall weight for the structural component of the overall score.

Table 6. Structural Elements and Percentages (%) of Total Score by Specialty

Item	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Ear, Nose & Throat	Gastroenterology & GI Surgery	Geriatrics	Gynecology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology	Urology
Advanced technologies	4.29	5.00	5.29	5.00	5.00		5.29	5.00	4.09	5.00	5.00	5.00
FACT accreditation	2.86											
Intensivists	2.86	3.33	3.53	3.33	3.33	3.53	3.53	3.33	2.73	3.33	3.33	3.33
NAEC-designated epilepsy center									2.73			
NCI-designated cancer center	2.86											
NIA-designated Alzheimer's center						5.29			2.73			
Number of patients	5.71	6.67	7.06	6.67	6.67	7.06	7.06	6.67	5.45	6.67	6.67	6.67
Nurse Magnet status	2.86	3.33	3.53	3.33	3.33	3.53	3.53	3.33	2.73	3.33	3.33	3.33
Nurse staffing	5.71	6.67	7.06	6.67	6.67	7.06	7.06	6.67	5.45	6.67	6.67	6.67
Patient services	2.86	3.33	3.53	3.33	3.33	3.53	3.53	3.33	2.73	3.33	3.33	3.33
Trauma center		1.67		1.67	1.67			1.67	1.36	1.67	1.67	1.67

NOTE: Percentages may not sum to 30 due to rounding.

C. Outcomes

The correlation between quality of care and risk-adjusted mortality is self-evident and supported by the literature. We calculated specialty-specific, risk-adjusted mortality rates for each hospital as an outcomes measure, taking volume of cases and severity of illness into account. Mortality is worth 37.5% of the overall score.

A patient's medical condition (the principal condition for which the patient is being treated as well as other comorbidities) strongly affects the chance of death while in the hospital. For a given condition, therefore, using raw mortality rates would unfairly penalize hospitals that treat high-risk patients. Ideally, we would compare the mortality rates of a standardized set of patients across all hospitals in the Best Hospitals universe. This is unfeasible because hospitals vary in the mix of conditions, both principal and comorbid, for which they treat their patients. Instead, we construct an "expected" mortality rate. It is what the hospital's mortality rate would be if all patients with the same diagnoses had the mortality risk of the Best Hospitals universe instead of their hospital's mortality risk for those patients. Hospitals with observed mortality rates below the expected, case-mix-adjusted rate would, on this metric, be judged to have quality higher than average, and those hospitals with observed mortality rates above the expected rate would be judged to have quality lower than average.

Observed and expected mortality rates were provided by IBM Watson Health using a pooled FY2014, FY2015, and FY2016 SAF data set, the latest available for analysis. SAF data are derived from reimbursement claims submitted by hospitals to Medicare. The SAF file contains information on all fee-for-service Medicare patients' diagnoses, procedures, length of stay in the hospital and discharge status. For the 2018-19 Best Hospitals rankings, only patients 65 years of age or older at the time of care were included in the analyses. The data were "grouped" using the 3M Health Information Systems APR-DRGs and MS Grouper software version 32.0, which aggregates tens of thousands of possible diagnosis and procedure combinations into roughly 1,000 clinically coherent groupings. Defined by APR-DRGs, severity-of-illness level, and mortality risk, the groups take into account the severity of the patient's illness, risk of death, and hospital resources used. 6,30,31

The SAF records include the CMS DRG assigned to each case for Medicare payment. Each SAF record is based on the patient's diagnosis, surgery (or other medical procedure), age, sex, and discharge destination. He patient's diagnosis, surgery (or other medical procedure), age, sex, and discharge destination. While DRG codes appear in the SAF record, our analyses does not use the assigned code and instead utilizes the grouper software to assess records and assign the most appropriate DRG, which may differ from what was assigned by CMS. DRGs classify the more than 10,000 International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) diagnosis codes into more meaningful patient groups based on clinical and cost similarity. Prior to 2016, the ICD-9-CM was the official system used by the National Center for Health Statistics and CMS to assign codes to diagnoses and procedures associated with U.S. hospital utilization. In 2016 the National Center for Health Statistics and CMS introduced the International Classification of Diseases, Tenth Revision, which reflects more specificity than is present in the ICD-9 coding. For the 2018 rankings, SAF data from FY2014 and FY2015 had ICD-9-CM codes, while SAF data from FY2016 was presented in ICD-10 code format. Due to the increased granularity of the ICD-10 codes, it is possible to backwards map ICD-10 codes to ICD-9 codes. The project team utilized the IBM

Watson Health mapping of ICD-10 to ICD-9 codes to backwards map, so that the same DRGs could be used for all three years.

Because MS-DRGs are generally relatively homogeneous groups of diagnoses and procedures, we use MS-DRGs as the basic unit for defining cases to be included in each specialty's mortality and volume measures. The MS-DRG groupings developed are based on the DRG groupings used in previous years of the study. We reviewed the CMS DRG to CMS MS-DRG crosswalk available from the CMS website to identify all of the different mappings of DRGs to MS-DRGs. On reviewing the APR-DRG threshold assignments for CMS DRGs in the 2010-11 Best Hospitals Rankings and examining how this mapped to the MS-DRGs, we began to assign thresholds to the MS-DRGs based on the assumption that the MS-DRG system is a more refined measure of severity (see *Appendix C* for the MS-DRGs used for 2018-19).##The MS-DRG groupings are applied to each year of data included in the analysis.

For the Best Hospitals analysis, only MS-DRGs that represent challenging and/or critical procedures are included. For example, most inguinal hernia repairs pose relatively low risk and demand modest expertise, so these cases would be excluded in our analyses in favor of focusing on diagnoses and procedures that represent a higher level of severity. The process used to identify MS-DRGs is outlined below. §§§§

- 1. MS-DRGs for very-low-intensity cases were excluded.
- 2. MS-DRGs that generally do not apply to a Medicare or elderly population were excluded.
- 3. Excluded and included MS-DRGs were evaluated on their embedded diagnoses.
- 4. Excluded and included categorizations were refined based on within-MS-DRG variation in diagnostic complexity.
- 5. MS-DRGs not assigned to a specific specialty were evaluated to determine whether they should be categorized more specifically.
- 6. A final evaluation for clinical consistency was performed.
- 7. MS-DRGs were attributed to multiple specialties if patients assigned to the DRGs are commonly treated by physicians in multiple specialties, or specific diagnoses or procedures were assigned to specific specialties based on principal diagnosis or procedures.

^{##}The 2010-11 Best Hospitals Ranking Methodology Report is available at www.rti.org/besthospitals.

MF For a more detailed review of these procedures, see the 2005 Best Hospitals Ranking Methodology Report at www.rti.org/besthospitals.

8. For the risk adjustment, the APR-DRG severity measure was included to refine cases further by taking severity of illness, as measured by comorbidities and interaction with the principal diagnosis, into account. A lower number would mean lower severity.

Mortality Methodology

Changes over the years have addressed specific issues in calculating mortality. These changes have addressed either specialty-specific issues (such as defining a specific population to use in Geriatrics as opposed to using all cases) or more general issues that can affect mortality outcomes (such as excluding transfers and switching from inpatient to 30-day mortality). Brief descriptions of these special considerations are provided below.

- 1. Redefining the Geriatrics patient population. Rankings in Geriatrics were dropped in 2006 but reintroduced in 2007, using a new approach to identify the target population and account for their mortality rates. Rather than using a small subset of MS-DRGs typical of geriatric patients, we elected to focus on how well hospitals treat older patients across a wide range of MS-DRGs. The Geriatrics specialty rankings now include all MS-DRGs generally appropriate to a Medicare or elderly population, but for the mortality analysis only patients who are at least 75 years of age are included. The basic mortality analyses of the data for this group followed the same procedures as for the other data-driven specialties.
- 2. Excluding transfers from mortality calculations. Since 2007, all patient transfers into the hospital have been excluded from mortality calculations. This was done to help avoid mortality rates that might be inflated by transfers of severely ill patients (relative to their MS-DRG and APR-DRG severity level) to tertiary care hospitals. Research has shown that because of their location, some tertiary care hospitals are particularly vulnerable to "dumping." This change means that patients legitimately transferred for appropriate care are lost to analysis, but it is more important to ensure that each hospital's mortality numbers are not affected by transfers of very sick patients from hospitals unable to properly care for them. Transfers were identified using the claim source of inpatient admission variable on the SAF files. Variable values of "4" (transfer from a hospital) or "A" (transfer from a critical access hospital) were used to identify transfers from acute hospitals or critical access hospitals. In 2017, the rankings added a new rule for excluding implicit transfers. That is, patients who are discharged and then admitted within the same day are excluded from analyses along with those who have explicit transfer indicators in the datasets.
- **3. Standardizing on 30-day mortality.** Prior to 2007, mortality in the Best Hospitals methodology was defined as the rate of inpatient deaths (i.e., those occurring from admission to discharge). As inpatient hospital length of stay has decreased, inpatient mortality has generally decreased as well. Mortality over longer periods post-discharge, however, has not declined

markedly.³⁶ Quality of care in the inpatient setting can affect patients' health and functional status for many weeks following discharge. AHRQ states in *Refinements of the HCUP Quality Indicators Technical Summary* (2001) that "without 30-day mortality data (ascertained from death certificates), hospitals that have short lengths of stay may appear to have better patient outcomes than other hospitals with equivalent 30-day mortality."³⁷

Thirty-day mortality may reflect factors unrelated to care provided in the hospital (e.g., quality of postacute care and lack of patient compliance with treatment regimen). Inpatient mortality, on the other hand, omits factors that tend to manifest in full after patients have been discharged. Inpatient mortality also does not account for hospital-to-hospital differences in length of stay for comparable patients and conditions.

To address these concerns, the 2007 rankings introduced 30-day mortality (i.e., 30 days postadmission) for all specialties except Cancer. This exception was made because of concern that 30-day mortality might penalize hospitals that see large numbers of cancer patients at the end of life—thus artificially inflating their mortality numbers. After further review of available data and research, however, we concluded that 30-day mortality should be consistent. Starting in 2008, 30-day mortality has been used for all data-driven specialties.****

4. Adjusting mortality values for low-volume hospitals. To address instances in which a low-volume hospital with relatively few discharges had an inordinately low or high mortality score because of the low frequency of applicable cases associated with that hospital, we adjust mortality. For instance, a hospital treating only 75 Medicare patients in the last 3 years in a particular specialty might have an observed-versus-expected mortality ratio of zero or close to zero. With so few cases to examine, we are not confident that the mortality numbers for this hospital reflect a real measure of outcomes rather than an extreme value based on too few cases.

For a hospital with discharge volume below the 25th percentile (see *Table 7*), we adjusted the observed transfer-free mortality rate based on our confidence in the hospital's observed mortality weight. First, we calculated a high-volume mortality rate, defined as the observed-to-expected mortality ratio for all hospitals at or above the 25th percentile. We then combined the hospital's actual mortality rate with the average high-volume mortality rate. The weight of the high-volume mortality rate will vary from 0 to 0.25 based on the hospital's volume percentile. Each 1 percentage point decrease in the volume percentile will increase the high-volume mortality weight by 1 percentage point. For example, a hospital with volume in the 24th percentile has a high-volume

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^{****} Note that the mortality methodology does not exclude palliative care (V66.5) or hospice cases due to significant inconsistencies in the way in which palliative and hospice care services are documented, defined, and coded across providers. The analyses rely on the APR-DRG and MS-DRG grouper systems to account for patient severity and risk of mortality in the SAF dataset rather than removing these cases from analyses.

mortality weight of 0.01. A hospital with a volume in the 20th percentile has an all-hospital weight of 0.05. The maximum weight on the all-hospital mortality is 0.25. Therefore, if:

a = amount below the 25th percentile (.01, .02,25),

b = average, high-volume mortality rate for hospitals at or above 25th percentile (see *Table* 7), and

c = an individual hospital's mortality rate,

then the mortality for hospitals with discharges volume in the bottom quartile is = a*b + (1-a)*c.

Table 7. Discharges Excluding Transfers and Distribution by Specialty

Specialty	Minimum Volume	25 th - Percentile Volume	Maximum Volume	Average High- Volume Mortality Rate (Observed to Expected)
Cancer	11	200	4,675	0.95
Cardiology & Heart Surgery	133	1,454	9,937	0.93
Diabetes & Endocrinology	50	102	886	0.83
Ear, Nose & Throat	< 11	52	413	0.77
Gastroenterology & GI Surgery	16	527	6,422	0.95
Geriatrics	194	2,654	33,309	1.00
Gynecology	< 11	59	426	0.56
Nephrology	< 11	221	3,217	0.98
Neurology & Neurosurgery	22	393	4,496	0.98
Orthopedics	21	388	9,856	0.92
Pulmonology	101	1,087	10,270	0.97
Urology	< 11	60	1,349	0.95

5. Adjusting SAF data to improve representativeness. SAF data represent frequencies of diagnoses in Medicare beneficiaries, and these data are the source of mortality and volume calculations. However, the distribution of conditions and procedures among Medicare patients differs somewhat from the distribution among all patients treated at U.S. hospitals. By relying on the distribution of diagnoses observed in the SAF data alone, the rankings would be somewhat biased toward providing readers with information on outcomes for Medicare patients, not for all patients needing care in the particular specialty.

To address this discrepancy, weights were applied starting in 2007 to the Medicare claims data based on the relative over- or under-representation of the MS-DRGs among all patients. Ideally, we would use data on all patients to estimate case—mix—adjusted mortality outcomes. Unfortunately, no comprehensive national database of all-payer claims data exists. As a substitute,

we instead used data from the AHRQ HCUP data set to produce adjustment factors (i.e., weights) for each diagnosis. The HCUP data set comes from a variety of sources and is the largest collection of U.S. all-payer hospital care data.³⁸

For the 2018-19 rankings, weights were calculated based on the most recently available HCUP National Inpatient Sample data sets. The MS-DRG-specific weights are equal to the relative frequency of the MS-DRG among all patients nationally versus relative frequency among Medicare patients, applying the case restrictions described above. The weighted observed-versus-expected mortality rate was then calculated for each hospital in all specialties.

6. Adjustment for socioeconomic status and risk. Starting in the 2017-18 rankings, a new adjustment was included at the patient level for Medicare and Medicaid dual eligibility. The dual-eligible flag is set to either 0 (not present) or 1 (present) for each case entering the risk-adjusted mortality equation. This was done to address known differences in morbidity and mortality with hospital patients associated with lower socioeconomic status (SES); dual-eligibility, or more specifically eligibility for Medicaid, is being used in this case to represent lower SES. The impact of the change is small but will result in scores that better represent patient survival in the hospitals evaluated.

Risk-adjusted mortality ratios were computed by dividing the observed transfer-free mortality rate by the expected transfer-free mortality rate, adjusted for case complexity using APR-DRG severity of illness and risk of mortality. The expected transfer-free mortality was an estimate of the hospital's mortality rate if its death rate for patients in each APR-DRG and severity level was equal to the national average for each specialty. Mortality ratios greater than 1 mean that more patients died than expected; mortality ratios less than 1 mean that fewer died than expected.

Survival Score

The survival score provides an alternative format for presenting information about hospital performance with regard to patient mortality. Survival scores are based on the distribution of the mortality ratios in each specialty. The adjusted mortality ratio used here is the value after the transformation for volume outliers discussed above. Survival scores are integer values ranging from 1 to 10. The adjusted mortality ratio cut-offs are calculated as quintiles above and below mortality scores of 1.0. Scores above 1.0 indicate worse-than-expected outcomes and are assigned values of 1 to 5 based on quintiles of the distribution; scores below 1.0 indicate better than expected outcomes and are assigned values of 6 to 10 based on quintiles. The closer the adjusted mortality ratio to 0, the higher the survival score. The quintiles described above are used to determine survival scores with the ranges in scores shown in *Table 8.* Hospitals were assigned a score of 1-10 based on the lowest cut-off value below which the adjusted mortality ratio fell. For example, an adjusted mortality ratio

of 0.88 in Cancer would have been assigned a survival score of 8 because 0.88 is lower than the 0.89 cut-off value.

Table 8. Survival Scores Based on Mortality Ratios

	Survival Score									
Specialty	1 if ratio	2 if ratio	3 if ratio	4 if ratio	5 if ratio	6 if ratio	7 if ratio	8 if ratio	9 if ratio	10 if ratio
Cancer	1.24	1.24	1.15	1.09	1.04	1.00	0.95	0.89	0.82	0.74
Cardiology & Heart Surgery	1.24	1.24	1.14	1.08	1.03	1.00	0.94	0.88	0.82	0.73
Diabetes & Endocrinology	1.28	1.28	1.15	1.09	1.04	1.00	0.89	0.81	0.72	0.61
Ear, Nose & Throat	1.50	1.50	1.29	1.20	1.10	0.98	0.78	0.65	0.51	0.39
Gastroenterology & GI Surgery	1.24	1.24	1.15	1.08	1.04	1.00	0.94	0.89	0.84	0.77
Geriatrics	1.22	1.22	1.14	1.09	1.04	1.00	0.96	0.92	0.87	0.81
Gynecology	1.21	1.21	1.16	1.12	1.04	0.99	0.72	0.57	0.43	0.28
Nephrology	1.36	1.36	1.20	1.12	1.06	1.00	0.94	0.87	0.79	0.68
Neurology & Neurosurgery	1.26	1.26	1.16	1.09	1.05	1.00	0.95	0.90	0.84	0.74
Orthopedics	1.42	1.42	1.24	1.14	1.06	1.00	0.92	0.83	0.74	0.61
Pulmonology	1.21	1.21	1.13	1.08	1.04	1.00	0.96	0.91	0.86	0.80
Urology	1.55	1.55	1.33	1.19	1.09	1.00	0.89	0.79	0.68	0.54

D. Process/expert opinion

For the 2018-19 rankings, the process/expert opinion component was worth 27.5% of the overall score in all specialties except for Cardiology & Heart Surgery, in which the process/expert opinion component was worth 24.5% of the total score.

The process/expert opinion dimension of the Donabedian paradigm reflects care decisions in the hospital setting such as making choices about admission, diagnostic tests, course of treatment, choice of medication, and length of stay. It is extremely difficult to obtain national measurements of process. We contend that an appropriately qualified physician who identifies a hospital as among the "best" is, in essence, endorsing the process choices made at that hospital, and we regard the nomination of hospitals by board-certified specialists as a reasonable proxy measure.

To collect these nominations, a survey of board-certified physicians across the country is conducted each year. As with past years, the 2018-19 rankings use nominations from the most

recent 3 years of physician surveys (2016, 2017, and 2018). Scores were calculated separately in each year and averaged such that each year's scores are given equal weighting in the final reputation score as shown in *Table 9.*

Table 9. 2016, 2017, and 2018 Reputation Weights by Survey Year

Sample Source	Reputation Weight (%)
2016 Physician Survey	33.3
2017 Physician Survey	33.3
2018 Physician Survey	33.3

The sections below describe the 2018 survey. The approaches used for the 2016 and 2017 surveys are described in the corresponding methodology reports for those years, available at www.rti.org/besthospitals.

Reputation scores were calculated in the same manner for both data-driven and reputationonly specialties. The following description therefore applies to both.

2018 Survey Approach

Sample Selection

The sample for the 2018 physician survey was selected from a database of all practicing U.S. physicians compiled by Doximity, the largest online professional network of U.S. physicians. Doximity's comprehensive Physician Database includes every practicing U.S. physician, identified by National Provider Identifier (NPI) number. Sources include the U.S. Department of Health and Human Services NPI Registry, state medical boards, and specialty boards (e.g., the American Board of Medical Specialties and the American Board of Surgery). Doximity's proprietary database is augmented by more than 400,000 registered and verified physician members who review and update their profiles to provide another set of primary data. *Table 10* provides the population counts of specialists in the Doximity database by those who are Doximity members and nonmembers as of December 1, 2017, when the sample of Doximity nonmembers was selected.

Data Collection Procedures

In each of the 16 Best Hospitals specialties, we selected a stratified sample of Doximity members and nonmembers. Doximity members were surveyed separately from nonmembers as described below.

Member survey. The Doximity member survey was sent to 157,455 physicians across the 16 specialties and was conducted from February to March 2018. Physicians received an initial email invitation with a link to the survey. The survey asked physicians to supply the names of up to five hospitals in their specialty that provide the best care to patients with serious conditions, without considering location or expense. Nonresponding physicians received one follow-up email reminder with a link to the survey. In addition, eligible Doximity members – i.e., those who were board certified in a relevant specialty – received alerts upon login to Doximity.com or use of the Doximity app inviting them to participate.

Nonmember survey. The nonmember survey was conducted by randomly sampling 3,200 Doximity nonmembers—200 specialists in each of the 16 specialty areas. Stratifying by census region (https://www2.census.gov/geo/pdfs/maps-data/maps/reference/us_regdiv.pdf), we selected physicians in each region proportional to the size of the population. For example, if 40% of all Doximity nonmembers in a specialty had been from the South, then 40% of our sample would have included physicians in that region. Sampling physicians proportional to population size allowed us to minimize the weights needed to produce reputation scores that are nationally representative.

Sampled physicians were asked to complete a brief survey containing a single nomination element. The survey of nonmembers was identical to the survey of Doximity members but was conducted via mail instead of web. It asked physicians to supply the names of up to five hospitals in their specialty that provide the best care to patients with serious conditions, without considering location or expense. A copy of the mailed survey is available in *Appendix A*.

Up to four mailings were sent to sampled Doximity nonmembers. Each mailing included a cover letter, questionnaire, and business reply envelope. The first survey mailing also included a combination token incentive—a \$2 bill and a ballpoint pen. The survey was conducted from January 16 through April 20, 2018.

Table 10. Population Counts by Best Hospitals Specialty, Doximity Members and Nonmembers

Specialty	Subspecialties Included (based on board certification)	Doximity Members	Doximity Nonmembers
Cancer	Hematology, medical oncology, complex general surgical oncology, surgical oncology, gynecologic oncology, musculoskeletal oncology, radiation oncology	12,449	6,569
Cardiology & Heart Surgery	Cardiovascular diseases, thoracic surgery, adult congenital heart disease, advanced heart failure and transplant, interventional cardiology, vascular surgery	20,454	10,373
Diabetes & Endocrinology	Endocrinology, diabetes & metabolism	3,376	2,539
Ear, Nose & Throat	Otolaryngology, plastic surgery within head & neck	6,844	3,474
Gastroenterology & GI Surgery*	Gastroenterology, colon and rectal surgery, transplant hepatology	10,065	6,409
Geriatrics	Geriatric medicine	3,285	2,551
Gynecology	Obstetrics & gynecology	20,675	13,797
Nephrology	Nephrology	5,351	3,755
Neurology & Neurosurgery	Neurology, neurological surgery, neuroradiology	13,006	7,673
Ophthalmology	Ophthalmology	10,378	6,940
Orthopedics	Orthopedic surgery	12,600	8,262
Psychiatry	Psychiatry	18,337	18,460
Pulmonology	Pulmonary diseases	5,286	4,910
Rehabilitation Physical medicine & rehabilitation, sports medicine		7,402	3,723
Rheumatology	Rheumatology	2,651	2,303
Urology	Urology	5,296	3,620

^{*} General surgeons certified by the American Board of Surgery were also eligible if they were members of the American Society for Metabolic and Bariatric Surgery, the American Society of Colon and Rectal Surgeons, or the Americas Hepato-Pancreato-Biliary Association.

Response Rates

The overall response rate for the 2016, 2017, and 2018 surveys was 11.9% using American Association of Public Opinion Research (AAPOR) standard response rate 6,†††† which treats undeliverables as ineligibles. The 2018 combined response rate for the Doximity member and

^{††††} Definitions are available online at http://www.aapor.org/AAPOR_Main/media/publications/Standard-Definitions20169theditionfinal.pdf

nonmember surveys was 13.6% using AAPOR standard response rate 6. Further details are provided below.

Member survey. Of the 157,455 Doximity members, 21,105 completed the web survey by March 22, 2018. The final response rate was 13.4% using AAPOR standard response rate 2. *Table 11* shows response rates by region and specialty.

Table 11. Member Survey Response Rates by Region and Specialty, 2018

Specialty	Midwest (%)	Northeast (%)	South (%)	West (%)	Total (%)
Cancer	20.1	22.2	13.2	9.5	16.6
Cardiology & Heart Surgery	17.5	18.6	12.2	9.4	14.7
Diabetes & Endocrinology	18.3	18.4	11.9	10.8	15.2
Ear, Nose & Throat	23.5	25.5	15.8	16.4	19.8
Gastroenterology & GI Surgery	17.6	16.3	8.6	9.2	12.7
Geriatrics	7.9	13.7	6.5	6.4	9.0
Gynecology	7.0	11.6	4.9	4.5	6.9
Nephrology	15.6	22.6	10.7	9.8	14.9
Neurology & Neurosurgery	21.8	24.1	14.4	14.4	18.7
Ophthalmology	19.5	17.2	12.1	16.9	16.1
Orthopedics	15.7	18.7	9.4	7.4	12.6
Psychiatry	6.1	12	4.5	5.6	7.7
Pulmonology	19.9	25	13.5	14.3	18.6
Rehabilitation	16.7	16.8	9.9	10.5	13.4
Rheumatology	14.8	19.5	8.8	8.5	13.5
Urology	20.7	22.6	13.7	14.5	17.6
Overall Response Rate	15.6%	17.9%	10.2%	9.7%	13.4%

Nonmember survey. Of the 3,200 physicians sampled in 2018, 570 were deemed ineligible after determining they were no longer actively practicing or because we were unable to verify their eligibility. Of the remaining 2,630 physicians, 630 returned the completed questionnaire. That represents a final response rate of 24.0% using AAPOR standard response rate 6. *Table 12* shows response rates by region and specialty.

Table 12. Nonmember Survey Response Rates by Region and Specialty, 2018

Specialty	Midwest (%)	Northeast (%)	South (%)	West (%)	Total (%)
Cancer	30.2	39.4	40.3	29.7	35.4
Diabetes & Endocrinology	34.5	20.5	28.3	13.9	24.4
Ear, Nose & Throat	16.7	33.3	29.0	39.0	29.9
Gastroenterology & GI Surgery	24.3	37.8	24.6	12.8	24.7
Geriatrics	15.2	15.6	13.3	13.8	14.5
Gynecology	25.8	21.2	28.3	13.5	23.0
Heart & Heart Surgery	36.1	43.6	18.8	32.4	30.6
Nephrology	25.7	21.2	17.9	17.1	19.9
Neurology & Neurosurgery	20.6	28.1	17.5	25.7	22.2
Ophthalmology	28.1	23.7	21.7	24.4	24.0
Orthopedics	25.7	25.0	19.7	21.3	22.2
Psychiatry	29.2	15.4	17.1	16.7	18.6
Pulmonology	13.8	16.2	32.7	31.6	25.2
Rehabilitation	21.2	28.2	32.7	12.5	24.2
Rheumatology	13.3	18.9	26.9	7.7	17.7
Urology	23.5	38.7	25.4	10.5	24.1
Overall Response Rate	24.2%	26.3%	24.8%	20.3%	24.0%

Survey Response Weighting

The weighting approach for the 2018 survey is described below. The approaches used for previous surveys are provided in the corresponding methodology reports for those years, which are available at www.rti.org/besthospitals.

For the 2018 Doximity member survey, we used post-stratification weights for age by gender (55+ male, <55 male, and female is a well as census region. Weights were constructed and applied to each physician's survey response to make nominations representative of all Doximity members nationally. Since all Doximity members were surveyed, weights were used to adjust for differences in nonresponse only by region and demographics.

^{‡‡‡‡} Age categories were collapsed for females because there were too few female physicians over 55 in the sample.

We additionally investigated whether physicians' hospital affiliations affected their survey responses. Although we did observe that physicians at certain hospitals had higher response rates than physicians at other hospitals, we did not find systematic bias in the reputation scores. This is because a given hospital is affiliated with a very small percentage of all sampled physicians.

In each specialty, the sample for the 2018 nonmember physician survey was stratified only by census region (Midwest, Northeast, South, and West). The sample size in each specialty was too small to stratify by the demographic characteristics used in the Doximity sample. Weights were constructed and applied to each physician's survey responses to make nominations representative of Doximity nonmembers nationally. Weights were based on probability of selection within each unique specialty-region combination and on adjustments to account for nonresponders.

Reputation scores were tabulated separately for Doximity members and nonmembers and then combined to create 2018 reputation scores. *Table 13* shows the reputation weight for Doximity members and nonmembers in each specialty for 2018. The weight is based on the proportion of Doximity members and nonmembers in the population, so the reputation score is representative of all physicians in the nation. Reputation scores for each of the past 3 years were then averaged to create the final weighted reputation values that appear in the methodology report.

Log Transformation

The online and print rankings display weighted 3-year reputation values. Before incorporating the values into the scoring for the 12 data-driven specialties, however, we implemented a log transformation to adjust for the skewed distribution. The log transformation was not applied in the four reputation-only specialties.

By its nature, a survey that solicits recommendations for "bests" will generate data that do not follow a normal distribution. Relatively few hospitals will receive even one "best" recommendation. Of those that do, even fewer will receive a significant number. The distribution of responses will inevitably be highly skewed. Because outcome and structural data are not similarly skewed, reputation would have a disproportionate impact if the extreme skewness was not addressed.

Log transformation in the data-driven rankings reshapes the distribution to match reputation data more closely to those of the other components. Transformation is applied to the weighted reputation data using the formula $log(R_X + 10) - 1$, where R_X is the weighted reputation score for hospital X. Adding a constant of 10 moderates the effect of the transformation.

Table 13. 2018 Reputation Weights for Doximity Members and Nonmembers by Specialty

	Reputation Weight			
Best Hospitals Specialty	Doximity Member (%)	Doximity Nonmember (%)		
Cancer	65.5	34.5		
Cardiology & Heart Surgery	66.4	33.6		
Diabetes & Endocrinology	57.1	42.9		
Ear, Nose & Throat	66.3	33.7		
Gastroenterology & GI Surgery	61.1	38.9		
Geriatrics	56.3	43.7		
Gynecology	60.0	40.0		
Nephrology	58.8	41.2		
Neurology & Neurosurgery	62.9	37.1		
Ophthalmology	59.9	40.1		
Orthopedics	60.4	39.6		
Psychiatry	49.8	50.2		
Pulmonology	60.1	39.9		
Rehabilitation	58.7	41.3		
Rheumatology	53.5	46.5		
Urology	59.4	40.6		

The transformed data are then scaled to a minimum of 0 and maximum of 100. *Figure 3* demonstrates the impact of the log transformation. Transformed reputation scores are higher than untransformed scores, but the impact is greater on low scores than on high scores, as illustrated by these examples:

- An untransformed score of 1% has a transformed value of 4 (4 times greater),
- an untransformed score of 10% has a transformed value of 29 (2.9 times greater), and
- an untransformed score of 60% has a transformed value of 81 (1.35 times greater).

Skewness is reduced, and the overall effect of the reputation score on hospitals' final standing in the rankings is diminished.

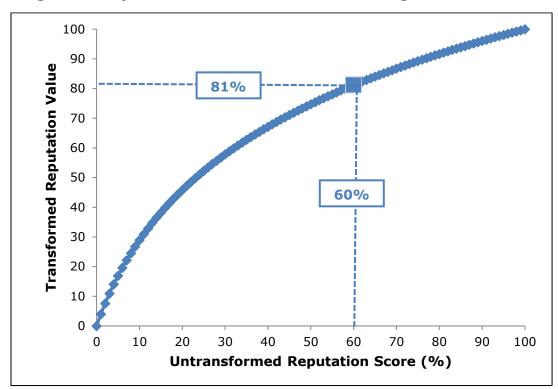


Figure 3. Reputation Data Before and After Log Transformation

Normalization and Weighting

Starting with the 2014-15 rankings, the weight of reputation in the overall score in the data-driven specialties was reduced from 32.5% in 2013-14 to 27.5%. In the 2017-18 rankings, the weight in Cardiology & Heart Surgery was further reduced to 24.5%. It remains 27.5% in the 11 other data-driven specialties.

As with structural measures, reputation data were normalized before being combined with other metrics. Normalization transforms index values into a distribution between 0 and 1 based on a measure's range of *possible* (as opposed to generated) values. The possible values for a hospital's reputation score range from 0% (no nominations in the latest three years) to 100% (every surveyed physician nominated the hospital). A hospital's normalized reputation score, after log transformation, determined the number of points the hospital received for reputation. If its normalized reputation score in Cancer was 80, for example, it received 0.80 x 27.5, or 22 points, for reputation.

E. Patient Safety Score

Care that harms patients is an important aspect of both outcomes and process. A patient safety score is therefore a critical component in evaluating and determining the best-performing hospitals.

For the 2016-17 rankings, the weight of the patient safety score in the total score was reduced from 10% to 5% and one of its constituent measures was removed. This was done to address concerns about the patient safety indicators (PSIs) in general and PSI 03, the removed measure, in particular.³⁹

For the 2017-18 rankings, two more constituent measures were removed and the scoring was revised. PSI 06 (Iatrogenic Pneumothorax) and PSI 14 (Postoperative Wound Dehiscence) were dropped due to concerns that low base rates could lead to unreliable measurement of patient safety.

Scoring for each PSI was also revised to a three-point scale, with the middle category defined as the mean +/- 2 standard deviations. Individual PSI scores were then added together to form a Patient Safety Score of 1 to 9 points, with higher numbers indicating better performance (i.e., lower rates of patient safety events).

In previous years, the data source for the patient safety score was the same 3-year sample from the MedPAR data set used for the volume and mortality analyses. Starting in 2016-17, the rankings used two new sources of data in lieu of MedPAR for calculating patient safety scores. For hospitals in all states except for Maryland, the rankings used data from the CMS Standard Analytical Files (SAF). This change was motivated by the need to have information on the date each procedure was performed, to improve a number of the PSI calculations.

Data from the HSCRC all-payer database were used in lieu of MedPAR for hospitals in Maryland. This change was made to address incomplete coding of Present on Admission (POA) indicators in the CMS datasets for the years of rankings analyses. The timeframe used in these analyses is the same that is used for the volume and mortality analyses in the Best Hospitals rankings (i.e., FY2014, FY2015, and FY2016). For both datasets used, only patients receiving fee-for-service care under Medicare and who were 65 years of age or older were included in the analyses.

Data from SAF and HSCRC were analyzed using AHRQ PSI QI software version 5.01. The project had planned to move to a newer version of the PSI QI software for the 2017-18 rankings, but AHRQ withdrew the software from distribution in early 2017, citing problems with the accuracy of calculations in the software. The project plans to adopt the new software for future rankings after it is re-released by AHRQ for public use.

Background

Prior to the 2009 rankings, the sole outcome measure in the analysis was mortality. While death rates are key, hospitalized patients are subject to many adverse outcomes that may not result in death. In its 2000 report *To Err Is Human*,⁴⁰ the Institute of Medicine (IOM) identified three domains of quality: (1) safety, (2) practice consistent with current medical knowledge, and (3) care customized to patients' values and expectations.

The IOM defined patient safety, the first domain, as "freedom from accidental injury." The IOM identified preventable adverse events as a leading cause of death and injury and the principal challenge to patients' safety. Hospitals with high rates of adverse events are unlikely to provide patients with high-quality care.

In 2003, AHRQ released the first version of its PSIs, a set of 20 provider-level and 7 arealevel indicators of potentially adverse events. ⁴¹ As described below, we use a subset of these indicators to identify adverse outcomes likely associated with less-than-desirable quality of care.

Research indicates that PSIs are not strongly associated with other outcome and structural quality measures. 42-44 However, we believe that PSIs incorporate important information separate from other measures used in the rankings. Including PSIs allows us to measure aspects of care that involve harm to patients and increased service utilization (to correct such harm, for example) but do not cause patient deaths. Hospital stays with patient safety events have been found to be more costly and longer in length than stays without patient safety events. 45-49 Patient safety events have also been associated with higher 90-day readmission rates, compared with rates for patients without safety events. 45

Development of the Patient Safety Index

The patient safety score was developed by RTI using the framework described in the *Patient Safety Quality Indicators Composite Measure Workshop Final Report*, with project-specific modifications. Below, we summarize the steps taken by AHRQ to construct an overall performance index that was reported in the annual *National Healthcare Quality Report* and *National Healthcare Disparities Report*. So,51 We followed a similar process to develop the Patient Safety Index for the Best Hospitals Project. The three basic steps included:

- 1. choosing index components,
- 2. weighting the index components, and
- 3. controlling for the influence of hospital case mix on measured PSIs.

1. Choosing Index Components

AHRQ's PSI composite index, known as PSI 90, includes the 11 PSIs checked in the second column of *Table 14.* These PSIs were chosen based on codes likely to be reported, not already part of existing composites, and not related to obstetric care.

The Best Hospitals patient safety score in the 2018-19 rankings includes three of the 11 indicators in the AHRQ's PSI composite index and one additional indicator, PSI 04, that is not in the measure. This latter indicator identifies surgical deaths generally deemed to be avoidable. Additional indicators may be added to the patient safety score as the measures become more refined.

Table 14. Comparison of AHRQ Patient Safety Indicators and Best Hospitals
Patient Safety Score

All Patient Safety Indicators	Included in the AHRQ PSI 90 Composite Index	Included in the Best Hospitals Patient Safety Score
PSI 03: Pressure ulcer	✓	
PSI 04: Death among surgical inpatients with serious treatable complications		✓
PSI 06: Iatrogenic pneumothorax	✓	
PSI 07: Central venous catheter-related blood stream infections rate	√	
PSI 08: Postoperative hip fracture	✓	
PSI 09: Postoperative hemorrhage or hematoma	✓	✓
PSI 10: Postoperative physiological and metabolic derangement	✓	
PSI 11: Postoperative respiratory failure	✓	√
PSI 12: Postoperative pulmonary embolism or deep vein thrombosis	✓	
PSI 13: Postoperative sepsis	✓	
PSI 14: Postoperative wound dehiscence	✓	
PSI 15: Accidental puncture or laceration	✓	✓

Several PSIs that previously were included in the patient safety score have been eliminated. PSI 02 (death in low-mortality DRGs) was dropped in 2012 after additional analyses revealed large fluctuations in the observance of this PSI from year to year. PSI 03 and PSI 08 were added in 2014-15, but PSI 08 was dropped in the 2015-16 rankings due to low incidence. For the 2016-17 rankings,

PSI 03 was dropped due to concerns that the measure was overly sensitive to missing POA data in the record, which could confound comparisons. For the 2017-18 rankings, PSI 06 and PSI 14 were dropped due to concerns that low base rates could lead to unreliable measurement.

2. Weighting the Index Components

An index (or score) is generally a weighted sum or mean of its components. In the Best Hospitals methodology, the patient safety score is an aggregation of four individual PSIs. Until the 2011-12 rankings, each PSI was weighted according to each hospital's patient volume in the analysis, as is done for mortality. This produced significant year-to-year variability in the weights assigned to individual PSIs. Starting in 2011-12, each PSI included in the score therefore received equal weighting. This has reduced volatility and maintained consistency in the PSI calculation.

3. Controlling for the Influence of Hospital Case Mix on Measured PSIs

The more complex the medical condition or procedure, the more complex the care. Assuming each "touch" by a hospital staff person has identical quality, the more complex the care, the greater the likelihood of error. It follows that patient safety score values for a hospital with a complex case mix cannot be compared fairly to those for a hospital with a simple case mix. The hospital with a simple case mix might have a better patient safety score but worse underlying quality. The Best Hospitals methodology controls for case mix by performing a simple linear regression of the individual patient safety measures on the Medicare case-mix index—the average MS-DRG weight of the Medicare patients treated in each hospital.

Switch to Risk-Adjusted Rates

From the 2009-10 rankings, when the Patient Safety Index was introduced, through the 2015-16 rankings, we used smoothed rather than risk-adjusted rates in the PSI calculations. Risk-adjusted rates take age, sex, DRG, and comorbidity distribution of data in the reference population into account (AHRQ, September 2010). Smoothed rates are a weighted average of risk-adjusted and observed rates in the reference population. Selecting smoothed rates was designed to bring the PSI rates toward the mean, which can be useful when data are noisy (AHRQ, November 2013).

Starting with the 2016-17 rankings, however, we moved to a risk-adjusted rate out of concern that the smoothed rates overadjust and obscure differences between hospitals. We now pool all observations in our calculations. By pooling 3 years of data, some of the potential year-to-year fluctuation that smoothed rates are designed to adjust for is taken into account.

Construction of the Patient Safety Score

The patient safety score is calculated by regressing each patient safety measure on the Medicare case-mix index to control for the influence of hospital case mix. Each year, patient safety scores cannot be calculated for a small number of hospitals (< 1%) that lack sufficient data. For these cases, we substituted the median PSI value for all hospitals. This process essentially ranks these hospitals as if the patient safety score is not factored into their rankings. This allows more direct comparisons with other hospitals than if they received no points for this measure.

The patient safety score used in the rankings reflects the average of the residual values. Lower values of adjusted patient safety scores indicate fewer adverse events than expected (higher quality); higher values indicate more adverse events than expected (lower quality).

Both for scoring and display purposes, individual PSI scores are recoded into three groups based on standard deviations from the mean. Hospitals with score values within +/-2 standard deviations are considered to be in the average range and received 2 points; hospitals with patient safety values exceeding this range are considered below average and received 1 point, while those with exceptionally low rates of patient safety events are considered above average and received 3 points. The patient safety scores in *Table 15* indicate the cutoffs that determine an individual hospital's level of patient safety.

Table 15. Patient Safety Scores Based on PSI Value

Indicator	3 if <	2 if between	1 if >
PSI 04: Death among surgical inpatients with serious treatable complications	-4.5972	-4.5972 to 4.6834	4.6834
PSI 09: Postoperative hemorrhage or hematoma	-0.2207	-0.2207 to 0.2213	0.2213
PSI 11: Postoperative respiratory failure	-0.4567	-0.4567 to 0.4340	0.434
PSI 15: Accidental puncture or laceration	-0.0847	-0.0847 to 0.0799	0.0799

A hospital's scores of 1 to 3 on each of the four individual PSIs are added together, and 3 is subtracted from that sum, to determine its 1-9-point Patient Safety Score. Higher numbers indicating better performance. For example, a hospital with a score of 2 for each of the four PSIs would receive a Patient Safety Score of 5. A hospital with two scores of 2 and two scores of 3 for individual PSIs would receive a Patient Safety Score of 7.

F. Public Transparency (Cardiology & Heart Surgery Only)

A public transparency component was added to the analysis for Cardiology & Heart Surgery in the 2016-17 rankings. The measure rewards hospitals for voluntarily reporting cardiac-care performance data to the public through one or both of two important clinical registries: the National Cardiovascular Disease Registry (NCDR), which is maintained by the American College of Cardiology (ACC), and the Adult Cardiac Surgery Database (ACSD), maintained by the Society of Thoracic Surgeons (STS). Clinicians initially created these and other clinical registries to foster quality improvement.

More recently, public transparency has been identified as an important additional application for registry-based quality measurement. The STS initiated voluntary public reporting for ACSD-participating hospitals in 2010. In late 2015, the ACC began a similar program for two of the 10 registries that comprise the NCDR, the CathPCI Registry and the ICD Registry.

Transparency via clinical registries can facilitate informed decision making by patients, which in turn may boost patient engagement in their healthcare. Transparency also creates opportunities for researchers to externally validate the results of hospital rankings such as Best Hospitals. Moreover, it demonstrates a public commitment on the part of the participating hospitals to the process of pursuing quality improvement.

Hospitals received up to 3 points for participating in public reporting with ACC and STS regardless of the specific ratings each registry reported. Hospitals that voluntarily publicly reported through one group but not the other received 2 points for this measure. Hospitals that publicly reported through both received 3 points. Hospitals that supplied data to the ACC or the STS but did not allow the results to be made public received 0 points.

Details of Participation Requirements (ACC)

To receive credit for ACC public reporting, hospitals must have participated in either the ICD Registry and/or the CathPCI Registry and voluntarily agreed to allow data from these registries to be posted on an ACC website, www.CardioSmart.org. To receive credit, the hospital had to have a public reporting status of "Participating with ACC" for at least one of those registries as of January 15, 2018. The publicly reported data include the following measures from each registry:

ICD Registry

- Angiotensin Converting Enzyme Inhibitor/Angiotensin Receptor Blocker (ACE/ARB) Therapy at Discharge for ICD Implant Patients with Left Ventricular Systolic Dysfunction (LVSD)
- Beta Blocker at Discharge for ICD Implant Patients with a Previous Myocardial Infarction
- Beta Blocker at Discharge for ICD Implant Patients With LVSD
- Composite: Discharge Medications (ACE/ARB and beta blockers) in Eligible ICD Implant Patients

CathPCI Registry

- Proportion of Patients with Aspirin Prescribed at Discharge
- Proportion of Patients with a P2Y12 Inhibitor Prescribed at Discharge (Patients With Stents)
- Proportion of Patients with a Statin Prescribed at Discharge
- Composite: Discharge Medications (Aspirin, P2Y 12 Inhibitor, and Statin) in Eligible PCI Patients

Details of Participation Requirements (STS)

To receive credit for STS public reporting, STS Adult Cardiac Surgery Database participants had to have their scores and data publicly displayed on the STS website (http://www.sts.org) as of February 1, 2018. STS ACSD public reporting currently includes outcomes for the following surgeries:

- Coronary artery bypass graft (CABG)
- Isolated aortic valve replacement (AVR)
- AVR plus CABG surgeries

G. Calculation of the Overall Score for the Data-Driven Specialties

All Specialties (Excluding Cardiology & Heart Surgery)

For 2018-19, The U.S. News ranking score reflects the followings weights for each of the major components:

- Structure = 30%
- Process/expert opinion = 27.5%
- Outcomes = 37.5%
- Patient safety = 5%

Relative structural measure weights can be found in Table 6.

Rankings by U.S. News score for the top 50 hospitals in each specialty are shown in **Appendix D**. Hospitals were recognized as High Performing in a specialty, for the Best Regional Hospitals lists, if they were not ranked in the top 50 but they received a score in the top 10 percent of all hospitals receiving a score in that specialty.

Equation (2) shows the formula for calculating the raw overall score for each specialty except Cardiology & Heart Surgery. A hospital's raw score in a specialty can be thought of as a simple weighted sum of the four ranking components, as shown below:

$$Raw \ score = \{.3(\sum_{i=1}^{n_s} S_i) + .275\sum_{i=1}^{n_p} P_i + .375(\sum_{i=1}^{n_o} O_i) + .05PS_i\},\tag{2}$$

where

 S_i = normalized value for structural measure i,

 P_i = normalized value for process/expert opinion measure (reputation) i,

 O_i = normalized value for outcomes measure (survival) i,

 PS_i = normalized hospital-wide patient safety score.

This formula is illustrative only. It *cannot* be used to calculate the U.S. News score for an individual hospital or replicate a published score.

For presentation purposes, raw scores were transformed to a scale that assigns a U.S. News score of 100 to the top hospital. The formula for the transformation is shown in Equation (3):

U.S. News
$$Score = (raw\ score - minimum)/range.$$
 (3)

Cardiology & Heart Surgery

For Cardiology & Heart Surgery, the U.S. News score included a fifth component—public transparency. This fifth component accounts for 3% of the overall score in the 2018-19 rankings. To accommodate this component, process/expert opinion weight was reduced to 24.5%. The U.S. News score for Cardiology & Heart Surgery reflects the following weights for each major component:

- Structure = 30%
- Process/expert opinion = 24.5%
- Outcomes = 37.5%

- Patient safety = 5%
- Public transparency = 3%

The formula for calculating the raw score for Cardiology & Heart Surgery is shown in Equation (4), as shown below:

$$Raw \ score = \{.3(\sum_{i=1}^{n_s} S_i) + .245\sum_{i=1}^{n_p} P_i + .375(\sum_{i=1}^{n_o} O_i) + .05PS_i + .03PT_i\},\tag{4}$$

where

 S_i = normalized value for Cardiology & Heart Surgery structural measure i,

 P_i = normalized value for Cardiology & Heart Surgery process/expert opinion measure (reputation) i,

 O_i = normalized value for Cardiology & Heart Surgery outcomes measure (survival) i,

 PS_i = normalized hospital-wide patient safety score,

 PT_i = normalized public transparency score.

As with the other specialties, raw scores were transformed to a scale that assigned a score of 100 to the top hospital.

III. Reputation-Only Specialties

Available data for the four reputation-only specialties are significantly limited. Lifethreatening conditions and procedures are rare in Ophthalmology, Psychiatry, and Rehabilitation, rendering mortality irrelevant. Inpatient volume in Rheumatology is extremely low, making calculation of mortality unreliable. Reliable structural measures also are unavailable in these four specialties. Therefore, reputation alone—the process/expert opinion component—determines ranking. This section describes the eligibility and procedures used to develop the rankings for these four specialties.

A. Eligibility

In specialties driven solely by reputation, hospitals have never had to meet the same eligibility standards as in the data-driven specialties. Starting with the 2015-16 rankings, a hospital has had to have a reputation score of 1% or greater to be eligible for ranking.

Ranked hospitals are those nominated by at least 5% of responding physicians within the last 3 years. Hospitals that are nominated by at least 3% and less than 5% of responding physicians are recognized as High Performing in the Best Regional Hospitals lists.

B. Process/expert opinion

The data-driven specialties and reputation-only specialties share the same process/expert opinion component (see section *II.D.* for more information).

C. Calculation of the Rankings

As described above, scores for the reputation-only specialties of Ophthalmology, Psychiatry, Rehabilitation, and Rheumatology must be calculated differently from scores for the data-driven specialties because of the unavailability of structural and outcomes measures. Thus, we rank hospitals in these specialties solely by reputation (see *Appendix E*).

IV. Number of Ranked Hospitals

This year, 158 different hospitals were ranked in at least one data-driven or reputation-only Best Hospitals specialty. Another 40 specialty hospitals that closely coordinate care with a partner hospital shared one or two specialty-specific rankings with that partner.

V. Honor Roll

The Honor Roll, which since 1990 has recognized excellence across a broad range of Best Hospitals specialties, was revamped in 2016-17. The updated methodology factors in the Procedures and Conditions ratings and reduces the role of reputation in the Honor Roll rankings. The 2018-19 Honor Roll utilizes the same method established in 2016-17 and was determined as follows.

- 1. In each of the 12 data-driven specialty rankings, the No. 1-ranked hospital received 25 Honor Roll points and lower-ranked hospitals progressively received one less point down to six points for No. 20. All hospitals ranked 21–50 received 5 points. A hospital ranked No. 1 in all 12 data-driven specialties would have received 25 x 12 = 300 points.
- 2. In each of the four reputation-only specialties, the No. 1-ranked hospital received 10 Honor Roll points, the No. 2 hospital received 9 points and lower-ranked hospitals progressively received one less point down to No. 10, which receives 1 point. All hospitals from No. 11 to the last ranked hospital also received 1 point. A hospital ranked No. 1 in all four reputation-only specialties would have received 40 points.

- 3. In the nine procedures and conditions for which U.S. News published 2018-19 ratings, hospitals received 12 Honor Roll points for each rating of High Performing. Hospitals that were rated High Performing in all nine procedures and conditions received 108 points.
- 4. The 2018-19 Honor Roll recognizes the 20 hospitals that earned the most points out of the possible total of 448 across the 16 specialties and nine procedures and conditions. The Honor Roll is ranked from No. 1 to No. 20, based on points.

The 2018-19 Honor Roll appears in *Appendix F*.

VI. Year-by Year History of Methodology Changes by RTI

RTI began working with *U.S. News* on the Best Hospitals rankings in 2005. Methodology changes introduced to the rankings for each project year are described below. For complete information on changes made in previous years, we recommend reviewing the project methodology reports for those years, which are available online at www.rti.org/besthospitals.

Summary of 2018-19 Changes

- Removal of the transfer adjustment for mortality. Since 2010, the rankings have adjusted mortality ratios for the influence of particularly high or low transfer rates to control for potential bias in the evaluation of hospital outcomes. This was done to address issues with coding of transfers in the datasets used which had been shown to be problematic at times. With the move to the SAF datasets, the project is now able to use both identified transfers on the record along with calculated implicit transfers which effectively overcomes the previous issues, removing the need for the adjustment.
- Backwards mapping of ICD-10 to ICD-9. Since two of the three years of SAF data used in the rankings for 2018-19 appear in ICD-9 format, the project chose to recode the ICD-10 data from FY2016 into ICD-9 format for the volume and mortality analyses. Due to the increased granularity of the ICD-10 codes, it is possible to backwards map ICD-10 codes to ICD-9 codes. The project team utilized the IBM Watson Health mapping of ICD-10 to ICD-9 codes to recode data, so that the same DRGs could be used for all three years. The project anticipates using the same approach for the 2019-20 rankings before moving completely to ICD-10 in 2020. (See page 26-27.)
- **Updated Survival Score Calculation**. To improve the clarity of the survival scores used in the data-driven specialties, the project team updated the method of calculating these display-only scores (this change does not affect points assigned in

SSSS Chronic obstructive pulmonary disease (COPD); congestive heart failure (CHF); coronary artery bypass surgery (CABG); hip replacement; knee replacement; abdominal aortic aneurysm repair; aortic valve repair or replacement (AVR); colon cancer surgery, and lung cancer surgery.

the rankings). The scores are now calculated based on the adjusted mortality ratio (rather than the unadjusted ratio) and are based on quintiles above and below a mortality ratio of 1.0; ratios above 1.0 will receive a score of 1-5, while those below a ratio of 1.0 will receive a score of 6-10. (See pages 31-32.)

Summary of 2017-18 Changes

- Move to SAF dataset. The project implemented a change from the MedPAR to the SAF datasets for all volume, mortality, and patient safety calculations; the exception is that the HSCRC all-payer database continues to be used for the Patient Safety Score calculations for hospitals located in Maryland. Only patients receiving care under traditional Medicare (fee-for-service) are included in the SAF datasets used for analyses; as a result, all hospital volumes will be reduced due to the lack of CMS managed care patients in the SAF datasets.
- Volume adjustment for loss of Medicare Advantage. Volumes were estimated for hospitals in each specialty using an adjustment to account for the loss of Medicare Advantage patients from the analyses. The numerator for the volume calculation was the number of fee-for-service discharges meeting the criteria for inclusion in the specialty. The denominator was the proportion of Medicare beneficiaries enrolled in fee-for-service (as opposed to Medicare Advantage) in the county in which the hospital is located. The denominator was calculated by subtracting from 1.0 the CMS Medicare Advantage penetration estimates, expressed as a decimal less than 1.0, for June 2013. As a result, the volumes reported represent estimates rather than observed volumes of care at each hospital.
- Socioeconomic status (SES) adjustment to the survival score. The rankings now incorporate a new adjustment at the patient level for dual-eligibility for Medicare and Medicaid. The dual eligible flag is set to either 0 (not present) or 1 (present) for each case entering the risk-adjusted mortality equation. This was done to address known differences in morbidity and mortality with hospital patients associated with lower SES; dual-eligibility, or more specifically eligibility for Medicaid, is being used in this case to represent lower SES. The overall impact of the change is very small, but will result in scores that better represent patient survival in hospitals evaluated.
- Intensivists. Hospitals now receive 1 point for having at least one intensivist FTE reported as being available in any adult-focused intensive care unit within the hospital. This change now provides somewhat broader credit to hospitals for having intensivists available than in previous years.
- Nurse Magnet. The Nurse Magnet measure was updated to better reflect program coverage for hospitals that are part of a multi-campus system or an arrangement with another hospital outside the system. Hospitals received 1 point for being recognized as a Nurse Magnet hospital. For hospitals that are part of a special merger or a multiplex healthcare system, the primary hospital is required to have Magnet Recognition status for the combination hospital to receive 1 point. If there is no defined primary hospital, then if either hospital in the special merger has Magnet

Recognition status then both receive credit. Partial credit was not offered in the 2017-2018 rankings.

- Patient safety score. Two of the PSIs used in the patient safety score—PSI 06 (Iatrogenic Pneumothorax) and PSI 14 (Postoperative Wound Dehiscence)—were dropped due to concerns that low base rates could lead to unreliable measurement. The scoring for the remaining individual PSIs was also revised to a three-point scale with the middle category defined as the mean +/- 2 standard deviations. The individual PSI scores were combined to form a 1-9-point Patient Safety Score with higher numbers indicating better performance (i.e., lower rates of patient safety events).
- Nurse staffing score adjustments. The project implemented three changes to the nurse staffing score for the 2017-18 rankings. First, the calculation now includes a correction for hospitals that provide onsite skilled nursing and report their nursing inclusive of both the inpatient and skilled nursing. The nursing FTEs associated with the skilled nursing are removed from the numerator and a corrected adjusted average daily census is used for the denominator. The corrected adjusted average daily census values for hospitals affected by this change are calculated and provided directly to the project by the AHA. Second, to address problems with missing data—in particular the primary nursing FTEs variable (FTEN)—the rankings impute missing FTEN values. For the imputation, hospitals that do not have extreme nurse staffing ratios are selected and the calculation incorporates data from current values for FTEN (Full time equivalent registered nurses reported), FTERN (Full time equivalent registered nurses estimated), ADJADC (Adjusted Average Daily Census) and BDTOT (total hospital beds set up and staffed). Third, to address volatility in the nurse staffing measure for hospitals with relatively low numbers of patients, we adjust the nurse staffing values for hospitals in the lowest quartile of adjusted average daily census by blending their rate with that of the average adjusted nurse staffing rate for hospitals eligible for the rankings.
- Surgical Minimums for Eligibility in Neurology and Neurosurgery. To be eligible for evaluation in the neurology and neurosurgery specialty hospitals are now required to be at the 25th percentile or higher in terms of the ratio of surgical to total discharges within the DRGs evaluated for the specialty. This change was made to address excessive bias in mortality rates for hospitals with a very low ratio of surgical-to-total discharges.

Summary of 2016-17 Changes

MedPAR data. Only patients receiving care under Medicare (fee-for-service and, if
available, managed-care) and who were 65 years of age or older were included in the
MedPAR file used for analyses. In previous years, all ages were used which resulted
in somewhat inflated volume rates.

- Component weight. The overall weight for the patient safety index was lowered from 10% in 2015-16 to 5% in 2016-17. The overall weight for outcomes was correspondingly increased from 32.5% last year to 37.5%.
- Intensivists. Hospitals now receive 1 point for having at least one intensivist whether on staff or through another privileged arrangement. Previously, intensivists were required to be on staff.
- Nurse Magnet. The Nurse Magnet measure was updated to better reflect program coverage for hospitals that are part of a multicampus system or an arrangement with another hospital outside the system. These combined entities only received full credit in 2016-17 (1 point) if all hospitals in the combination had Nurse Magnet recognition as of April 1, 2016. If the primary hospital had Nurse Magnet recognition but the specialty or secondary hospital(s) did not, the combined entity received half credit (0.5 point).
- **Public transparency**. In Cardiology & Heart Surgery only, a new measure was added rewarding hospitals for participation in transparency in public reporting of heart outcomes with the ACC and STS.
- Use of SAF file for patient safety. In previous years, the data source for the patient safety score was the same 3-year sample from the MedPAR data set that was used for the volume and mortality analyses. For 2016-17, the rankings used data from the CMS SAF instead of MedPAR. This change was motivated by the need to have more accurate procedure data for a number of the PSI calculations.
- Patient safety score. PSI 03, decubitus ulcer, was dropped due to concerns that the measure was overly sensitive to missing POA data in the record, which could confound comparisons.
- Data for Maryland hospitals. For Maryland hospitals, data from the state's HSCRC all-payer database was used for patient safety. This change was made to address incomplete coding of POA indicators in the CMS datasets for some of the years of analyses under consideration for the rankings.
- Honor Roll. Moved to a new format that incorporated results from the 12 data-driven specialty rankings, the 4 reputation-only specialty rankings, and the 9 procedures and conditions ratings (see page 52-53). Hospitals received points for being ranked in each of the Best Hospitals data-driven and reputation only specialties if they appeared in the top 50, and additional points if they achieved a rating of high performing in the procedures and conditions ratings. The Honor Roll now recognizes the 20 hospitals that earned the most points out of the possible total.

Summary of 2015-16 Changes

• **Technology and Patient Services**. Due to changes to the AHA annual survey, there are now three categories instead of four categories for receiving credit for

- providing technology and patient services to patients. These services can be provided (1) by the hospital or its subsidiaries, (2) by the hospital's health system (in local network), or (3) by another institution outside of the health system, but in the local network, through a formal contractual arrangement or joint venture.
- Patient Safety Score. PSI08 was removed from the patient safety score due to low prevalence. A risk-adjusted rather than a smoothed rate is used, to address concerns that the smoothed rate might over-adjust for differences between hospitals.

Summary of 2014-15 Changes

- Component weighting. The weight for the process component was reduced from 32.5% to 27.5% and the weight for the patient safety score was increased from 5% to 10%. This was done in recognition of the increased importance of patient safety to the quality of care provided by hospitals.
- **Technology**. Cardiac ICU was removed in Cardiology & Heart Surgery, as it already served as a requirement for hospitals to be eligible for ranking in this specialty. IMRT was added as a new technology to the Cancer and Urology specialties, recognizing the importance of this treatment modality to care in both specialties.
- Patient Safety Score. Two patient safety indicators were added to the patient safety score due to the availability of the POA indicator in the MedPAR dataset. Additionally, for display purposes, PSIs were converted from a 3-point scale to a 5-point scale to provide more nuanced information to consumers on the differences in patient safety performance between hospitals. For scoring, we now use a continuous value for PSI rather than a discrete value shown in the ranking tables.
- MS-DRG deletions. MS-DRG 689 (Kidney and Urinary Tract Infections with MCC) was removed from the Urology specialty because it does not reflect the quality of care of a urology service. A review of hospital data showed that the code is frequently used by other specialties within the institution to identify significant medical comorbidities rather than for identifying performance by the institution's urology service.
- Eligibility for reputation-only specialties. In previous years, a hospital was eligible if it received one or more physician nominations in the past 3 years. In 2014-15, a hospital was eligible for a reputation-only specialty only if it had a reputation score of 1% or greater, which equates to about three nominations in the past 3 years. This change was made to restrict eligibility to hospitals that are more consistently nominated.

Summary of 2013-14 Changes

• "Present on admission" data included in patient safety calculations. Starting with the 2013-14 rankings, patient safety data were analyzed using the AHRQ PSI grouper software version 4.3. This version of the software incorporates POA data

found in Medicare claims. This allows the software to remove cases where POA is indicated so that they do not count against a hospital in the assessment of patient safety events.

• Neurology & Neurosurgery MS-DRG deletions. Several procedures involving spinal fusion (MS-DRGs 028, 029, 030, 453, 453, 455, 456, 457, 458, 459, 460, 471, 472, 473, 490, and 491) were removed from the Neurology & Neurosurgery but retained in the Orthopedic specialty. The change was made to reflect the specialty that patients typically turn to when seeking spinal fusion procedures. This change also eliminated a redundancy in the coverage of these procedures in the rankings. As a result, these procedures are covered in the orthopedic specialty regardless of whether the surgery was performed by an orthopedic surgeon or neurosurgeon.

Summary of 2012-13 Changes

- Surgical volume discharge minimums. If the minimum total discharge value for a specialty was lower than 25, then 25 was set as the minimum for that specialty to ensure a sufficient number of discharges.
- **Normalization.** Normalization is the process of transforming index values into a distribution between 0 and 1 based on the range of possible values for a given measure. Individual measures were normalized before incorporating into the overall score. In previous years, standardization was used instead of normalization.
- New weighting procedures for structural measures. In previous years, factor analysis determined the relative weights of the structural measures. Starting in 2012-13, weights are based on the relative significance of each measure.
- Reputation. In previous years, the hospital with the highest reputation score received the full point total (i.e., 32.5 points) for the reputation component. Starting in 2012-13, hospitals received a normalized reputation score. For example, if the highest reputation score in a given specialty is 80%, the hospital receives a normalized score of 0.80. Since reputation is worth 32.5% of the overall score, the hospital receives 0.80 x 32.5, or 26 points, for reputation instead of the full 32.5 points possible.
- Survey response weighting. Beginning in 2012-13, we calculated reputation values for each year of the survey independently and averaged the 3 years rather than pooling nominations across years. This was done to reduce the year-to-year fluctuation of reputation scores within specialties.
- Honor Roll. The methodology for assigning Honor Roll points was revised. For data-driven specialties, hospitals now receive 2 points for ranking among the top 10 hospitals and 1 point for ranking in the next 10 (i.e., 11–20). For reputation-only specialties, hospitals receive 2 points for ranking in among the top 5 and 1 point for ranking in the next 5 (i.e., 6–10).

Summary of 2011-12 Changes

- **Ties allowed.** For 2011-12, we instituted a new rule that allows for ranking ties for hospitals with the same score. Previously, ties were not allowed and were broken by examining the scores out to 3 decimal points.
- Cut-offs for reputation-only specialties. In previous years, hospitals representing 3% or more of the total nominations in a specialty were published in print for the reputation-only specialties. For the 2011-12 rankings, this was revised to 5% to be more discerning.
- Mortality displayed as survival scores. The values displayed in the rankings tables for mortality were changed from mortality ratios to decile-based survival scores. The top 10% of hospitals—with the lowest relative mortality and highest 30-day survival—received a survival score value of 10; the next 10% of hospitals received a value of 9, and so on. The method for using the mortality scores to calculate the score did not change from that used in 2010.
- Updated scoring for the Patient Safety Index. The Patient Safety Index was revised to include 6 rather than 7 indicators (PSI 02: Death in low-mortality DRGs is no longer included). The approach to weighting individual PSIs also changed from the population at risk to equal weighting. The index scoring was also updated from the quintile scoring used in 2009-10 to a new 3-point scale that represents ≥ 75th percentile, 25th−74th percentile and < 25th percentile.

Summary of 2010-11 Changes

- Reputation scores transformed. Implemented a new log transformation of the
 reputation survey data prior to standardization. This change will allow reputation
 scores to cluster more, reducing the overall impact of this component on the final
 hospital ranking.
- **MS-DRGs** incorporated. The 3M Health Information Systems MS Grouper software was run on all 3 years of data included in the analyses, and we revised the assignment of cases to specialties using the MS-DRGs.
- Change in structural volume measure. The criteria used to determine volume for the structural variable have now changed to include only those cases meeting the minimum severity of illness thresholds set by the project using APR-DRGs and includes transfers; previously, this measure focused on all discharges for DRGs used by the project and excluded transfers. This change will allow the volume measure to more accurately reflect the actual volume of cases according to the specialty definitions.
- Codes identifying transfers for mortality calculation revised. As in previous years, transfers were identified using the claim source of inpatient admission variable on the MedPAR files. In past years, transfers were identified based on the value "4"

for transfer from an acute hospital. This year the variable value "A" for transfer from critical access hospital was also used.

- Low-discharge hospitals adjustment changed. We revised the method for adjusting the scores for hospitals with low discharges on both volume and mortality. In previous years, we used an inverse-logit transformation. Starting in 2010, for hospitals with a discharge volume below the 25th percentile, we adjusted the observed volume score and transfer-free mortality rate by creating an average weight based on the hospital's observed score and the score for all hospitals at or above the 25th percentile in volume.
- "Outlier" transfer data adjusted. We adjusted the observed transfer-free mortality rate for hospitals in the top and bottom quartiles of transfer-in rates to account for the fact that some hospitals may have had too many or too few cases included in the mortality calculations due to poor or inaccurate coding of administrative data.

Summary of 2009 Changes

- **Eligibility criteria updated.** Hospitals with a minimum number of hospital beds may now be eligible for the rankings.
- **Key technologies updated.** The elements in this index were updated for a few specialties to remain consistent with the key technologies expected from a best hospital.
- **Intensivist on staff added.** Hospitals now receive credit in all data-driven specialties for having intensivists on staff.
- Patient Safety Index added. A Best Hospitals Patient Safety Index was created and applied to all data-driven specialties.
- **DRG groupings updated.** DRG groupings were updated for all data-driven specialties, consistent with typical year-to-year changes.
- **Physician survey.** The following instruction was removed from the physician survey: "Please do not list any hospital where you currently practice." Physicians likely choose to work at a certain hospital because it is a best hospital. Therefore, it was deemed acceptable for them to vote for the hospital where they work.

Summary of 2008 Changes

• Advanced technologies updated. The elements in this index were updated for a few specialties to remain consistent with the advanced technologies expected from a best hospital.

- Patient services updated. The elements in these services were updated for a few specialties to remain consistent with the patient services expected from a best hospital.
- Trauma center certification dropped. Trauma center certification was dropped from the Gynecology specialty.
- Alzheimer's disease center added. This element was added to the Neurology & Neurosurgery specialty.
- **30-day mortality rates added for Cancer.** Thirty-days-from-admission mortality rates were introduced in all data-driven specialties except Cancer in 2007. For 2010-11, 30-day mortality was used in Cancer as well.

Summary of 2007 Changes

Changes for 2007 were more substantial but still in keeping with the goal of maintaining consistency and continuity. Many of the changes were discussed at length at a day-long meeting convened by U.S. News in fall 2006 to solicit the views of a Best Hospitals advisory panel of approximately 40 invitees. The panelists represented top hospitals and brought expertise in areas such as clinical care, healthcare data analyses and quality research. Several representatives from key trade/industry organizations also participated.

- External organizations added. Hospitals in the Cancer specialty now receive points for accreditation by FACT as a Cellular Therapy Facility. Hospitals in Geriatrics now receive points if they are recognized by NIA for having an Alzheimer's center.
- **DRG groupings updated.** DRG groupings were updated for all specialties, consistent with typical year-to-year changes.
- Transfers excluded. Patients transferred into a hospital from another hospital are excluded from mortality and volume calculations to reduce the likelihood of either benefiting or suffering from "dumping" of patients.
- **30-day mortality introduced.** Thirty-days-from-admission mortality rates were introduced in all data-driven specialties (except Cancer) instead of death-at-discharge mortality rates.
- Mortality data weighted. Weights were applied to the MedPAR data based on the relative over- or underrepresentation of the cases' DRGs among all patients, as identified in the HCUP data.
- **Neonatologists moved.** Neonatologists were removed from the Gynecology sample and included in the Pediatrics sample instead.

• **Physician survey.** An additional instruction was added to the physician survey: "Please do not list any hospital where you currently practice."

Summary of 2005 and 2006 Changes

To maintain consistency in the previous ranking process, RTI replicated the preexisting methodology in the 2005 rankings and implemented only minor operational improvements in 2006.

VII. Future Improvements

The Best Hospitals methodology is reexamined and refined each year. As always, RTI will closely monitor the potential of new data sources and measures. Below, we describe several methodological improvements that are being considered.

- Evaluate transparency measures for other specialties. We will continue to evaluate new measures for transparency of outcomes, similar to the ACC and STS public transparency measure added in Cardiology & Heart Surgery.
- Reevaluate process/expert opinion component. We will continue to evaluate potential new process measures that might enhance the physician survey proxy measure. For example, the Hospital Consumer Assessment of Health Care Providers and Systems (HCAHPS) survey of hospital inpatients, implemented by CMS in 2008, obtains patient feedback on the quality of care received during a recent hospital stay. The Hospital Compare website has also introduced process measures that might offer useful data.
- Add structural data to reputation-only specialties. We are examining resources and measures that would add structural data to the current reputation-only specialties to strengthen and improve the rankings for these specialties.
- **Review external data sources.** We will investigate additional and new sources of data that offer quality measures for all hospitals. Data sources under consideration include quality indicators from AHRQ, AHA, CMS and the Joint Commission.

VIII. Contact Information

We welcome suggestions and questions. Readers and users are encouraged to contact the Best Hospitals research team at the address listed below. This report, as well as all others from 2005 forward, can be viewed or downloaded from the RTI International website at www.rti.org/BestHospitals. Specific questions or comments about this report can be sent to BestHospitals@rti.org.

References

- 1. Donabedian A. Evaluating the quality of medical care. *The Milbank Memorial Fund Quarterly* 1966;44:166–203.
- 2. Donabedian A. Promoting quality through evaluating the process of patient care. *Medical Care* 1968;6:181.
- 3. Donabedian A. The quality of care: How can it be assessed? *Journal of the American Medical Association* 1988;260:1743–1748.
- 4. Donabedian A. The seven pillars of quality. *Archives of Pathology and Laboratory Medicine* 1990;114:1115–1118.
- 5. Donabedian A. The role of outcomes in quality assessment and assurance. *Quality Review Bulletin* 1992;18(11):356–360.
- 6. Clinical Research and Documentation Departments of 3M Health Information Systems. *All Patient Refined Diagnosis Related Groups (APR-DRGs): Methodology overview, version 20.0.* Wallingford, CT: 3M Health Information Systems; 2003.
- 7. Agency for Healthcare Research and Quality (AHRQ). Patient Safety Indicators (PSI) composite measure workgroup final report. Rockville, MD: Agency for Healthcare Research and Quality. Available at http://www.qualityindicators.ahrq.gov/Downloads/Modules/PSI/PSI_Composite_Dev elopment.pdf.
- 8. Hibbard JH, Stockard J, Tusler M. Does publicizing hospital performance stimulate quality improvement efforts? *Health Aff* 2003;22:84–94.
- 9. Hibbard JH, Stockard J, Tusler M. Hospital performance reports: impact on quality, market share, and reputation. *Health Aff* 2005;24:1150–1160.
- Fung CH, Lim YW, Mattke S, et al. Systematic review: the evidence that publishing
 patient care performance data improves quality of care. *Ann Intern Med* 2008;148:111

 123.
- 11. Hollenbeck CS, Gorton CP, Tabak YP, et al. Reductions in mortality associated with intensive public reporting of hospital outcomes. *Am J Med Qual* 2008;23:279–286.
- 12. Guru V, Fremes SE, Naylor CD, et al. Public versus private institutional performance reporting: what is mandatory for quality improvement? *Am Heart J* 2006;152:573–578.
- 13. Lindenauer PK, Remus D, Roman S, et al. Public reporting and pay for performance in hospital quality improvement. *N Engl J Med* 2007;356:486–496.

- 14. Hill CA, Winfrey KL, Rudolph BA. 'Best Hospitals': A description of the methodology for the index of hospital quality. *Inquiry* 1997;34:80–90.
- 15. American Hospital Association (AHA). *Annual Survey of Hospitals Database Documentation Manual*. Chicago, IL: American Hospital Association; 2005.
- 16. Pronovost PJ, Holzmueller CG, Clattenburg L, et al. Team care: beyond open and closed intensive care units. *Current Opinion in Critical Care* 2006; 12(6):604–608.
- 17. Sapirstein A, Needham DM, Pronovost PJ. 24-hour intensivist staffing: balancing benefits and costs. *Critical Care Medicine* 2008;36(1):367–368.
- 18. Cancer Centers Branch of the National Cancer Institute. *Policies and guidelines relating to the cancer-center support grant.* Washington, DC: National Cancer Institute; 2000.
- 19. National Association of Epilepsy Centers. Guidelines for essential services, personnel, and facilities in specialized epilepsy centers in the United States. *Epilepsia* 2001;42(6).
- 20. U.S. Department of Health and Human Services. *Medicare hospital mortality information* (HCFA publication 01-002). Report prepared by Otis R. Bowen and William L. Roper. Washington, DC: U.S. Government Printing Office; 1987.
- 21. Blumberg MS. Comments on HCFA hospital death rate statistical outliers. *HSR: Health Services Research* 1987;21:715–740.
- 22. Dubois RW, Brook RH, Rogers WH. Adjusted hospital death rates: A potential screen for quality of medical care. *American Journal of Public Health* 1987; 7:1162–1166.
- 23. Gillis KD, Hixson JS. Efficacy of statistical outlier analysis for monitoring quality of care. *Journal of Business and Economic Statistics* 1991;9:241–252.
- 24. Green J, Wintfield N, Sharkey P, Passman LJ. The importance of severity of illness in assessing hospital mortality. *Journal of the American Medical Association* 1990;263:241–246.
- 25. Green J, Passman LJ, Wintfield N. Analyzing hospital mortality: The consequences of diversity in patient mix. *Journal of the American Medical Association* 1991;265:1849–1853.
- 26. Greenfield S, Aronow HU, Elashoff RM, Watanabe D. Flaws in mortality data: The hazards of ignoring comorbid disease. *Journal of the American Medical Association* 1988; 260:2253–2257.
- 27. Rosen HM, Green BA. The HCFA excess mortality lists: A methodological critique. *Hospital and Health Services Administration* 1987;2:119–124.

- 28. Flood AB, Scott WR. Conceptual and methodological issues in measuring the quality of care in hospitals. In *Hospital structure and performance*. Baltimore, MD: Johns Hopkins University Press; 1987.
- 29. Iezzoni LI, Ash AS, Coffman GA, Moskowitz MA. Predicting in-hospital mortality: A comparison of severity measurement approaches. *Medical Care*. 1992;30:347–359.
- 30. De Marco MF, Lorenzoni L, Addari P, Nante N. Evaluation of the capacity of the APR-DRG classification system to predict hospital mortality. *Epidemiol Prev* 2002;26(4):183–190.
- 31. Ciccone G, Lorenzoni L, Ivaldi C, et al. Social class, mode of admission, severity of illness and hospital mortality: An analysis with 'all patient refined DRG' of discharges from the Molinette Hospital in Turin. *Epidemiol Prev* 1999;23(3):188–196.
- 32. Centers for Medicare & Medicaid Services (CMS). Medicare Provider Analysis and Review (MEDPAR). Baltimore, MD: Centers for Medicare & Medicaid Services. Available at http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MedicareFeeforSvcPartsAB/MEDPAR.html. Accessed April 30, 2013.
- 33. National Center for Health Statistics. *The international classification of diseases, ninth revision, clinical modification* (ICD-9-CM). Hyattsville, MD: National Center for Health Statistics; 2013. Available at https://www.cdc.gov/nchs/icd/icd9cm.htm. Accessed April 30, 2013.
- 34. National Center for Health Statistics. *The international classification of diseases, tenth revision, clinical modification* (ICD-10-CM). Hyattsville, MD: National Center for Health Statistics; 2018. Available at https://www.cdc.gov/nchs/icd/icd10cm.htm. Accessed April 30, 2018.
- 35. Cromwell J, Adamache WO, Bernard S, et al. *Specialty hospital evaluation*. Final report prepared for the Centers for Medicare & Medicaid Services (CMS Contract No. 500-00-0024, T.O. 12). Waltham, MA: RTI International; 2005.
- 36. Medicare Payment Advisory Commission. A data book: Healthcare spending and the Medicare program, June 2006. Washington, DC: Medicare Prospective Payment Commission; 2006.
- 37. Davies GM, Geppert J, McClellan M, et al. Refinement of the HCUP quality indicators. Prepared by UCSF-Stanford Evidence-based Practice Center for the Agency for Healthcare Research and Quality (AHRQ Publication No. 01-0035). Rockville, MD: Agency for Healthcare Research and Quality; 2001. Available at http://www.ncbi.nlm.nih.gov/books/NBK43831/.
- 38. Agency for Healthcare Research and Quality (AHRQ). *Healthcare Cost and Utilization Project (HCUP)*. Rockville, MD: Agency for Healthcare Research and Quality; 2014. Available at www.hcup-us.ahrq.gov/databases.jsp.

- 39. Rajaram R, Chung JW, Kinnier CV, et al. Hospital characteristics associated with penalties in the Centers for Medicare & Medicaid Services Hospital-Acquired Conditions Reduction Program. *Journal of the American Medical Association* 2015;314(4):375–383.
- 40. Institute of Medicine (IOM). *To err is human: Building a safer health system.* Washington, DC: National Academy Press; 2000.
- 41. Agency for Healthcare Research and Quality (AHRQ). *Guide to patient safety indicators, version 3.1.* Rockville, MD: Agency for Healthcare Research and Quality; 2007. Available at http://www.qualityindicators.ahrq.gov/Downloads/Modules/IQI/V31/iqi guide v31. pdf.
- 42. Isaac T, Jha AK. Are patient safety indicators related to widely used measures of hospital quality? *Journal of General Internal Medicine* 2008;23(9):1373–1378.
- 43. Thornlow DK, Stukenborg GJ. The association between hospital characteristics and rates of preventable complications and adverse events. *Medical Care*, 2006;44(3):265–269.
- 44. Miller MR, Pronovost P, Donithan M, et al. Relationship between performance measurement and accreditation: implications for quality of care and patient safety. *American Journal of Medical Quality* 2005; 20(5):239–252.
- 45. Encinosa WE, Hellinger FJ. The impact of medical errors on ninety-day costs and outcomes: An examination of surgical patients. *Health Services Research* 2008;43(6):2067–2085.
- 46. Paradis AR, Stewart, VT, Bayley KB, et al. Excess cost and length of stay associated with voluntary patient safety event reports in hospitals. *American Journal of Medical Quality* 2009;24(1):53–60.
- 47. Rivard PE, Luther SL, Christiansen, CL, et al. Using patient safety indicators to estimate the impact of potential adverse events on outcomes. *Medical Care Research and Review* 2008;65(1):67–87.
- 48. Rosen AK, Rivard P, Zhao SB, et al. Evaluating the Patient Safety Indicators—How well do they perform on Veterans Health Administration data? *Medical Care* 2005;43(9):873–884.
- Zhan C, Miller MR. Excess length of stay, charges, and mortality attributable to medical injuries during hospitalization. *Journal of the American Medical Association* 2003;290:1868– 1874.
- 50. Agency for Healthcare Research and Quality (AHRQ). *National healthcare quality report*. Rockville, MD: Agency for Healthcare Research and Quality. Available at www.ahrq.gov/qual/measurix.htm.

51. Agency for Healthcare Research and Quality (AHRQ). *National healthcare disparities report*. Rockville, MD: Agency for Healthcare Research and Quality. Available at www.ahrq.gov/qual/measurix.htm.

Appendix A 2018-19 Physician Survey Materials



Best Hospitals

Your nominations will be reflected in the 2018-19 U.S. News & World Report <<pre><<pre><<pre><<pre>rankings.

Please name up to 5 U.S. hospitals that in your opinion provide the best care in <<pre>rint specialty>> for patients who have the most challenging <<adult fill>>. Do not consider location or cost. For a hospital that is part of a health system or medical school, please name the individual hospital.

H	ospital	City	State
a.			
b.			
c.			
d.			
e.			

Fax response to (800) 476-9721 or return in postpaid envelope.

Conducted by:

RTI International 3040 Cornwallis Rd, PO Box 12194, Research Triangle Park, NC 27709-2194

Appendix B Structural Variable Map

The following variables, used to construct structural elements of the 2018-19 data-driven rankings, were taken from the 2016 Annual Survey of Hospitals Database published by the American Hospital Association, unless otherwise specified. Hospitals did not receive more than one point for any one service.

Key Technologies (8 points possible)

1 point awarded if
DRADFHOS, DRADFSYS or DRADFVEN=1
FFDMHOS, FFDMSYS or FFDMVEN=1
IGRTHOS, IGRTSYS or IGRTVEN=1
MSCTHOS MSCTSYS, MSCTVEN, MSCTGHOS, MSCTGSYS or MSCTGVEN=1
PETCTHOS, PETCTSYS or PETCTVEN=1
ROBOHOS, ROBOSYS or ROBOVEN=1
SPECTHOS, SPECTSYS or SPECTVEN=1
SRADHOS, SRADSYS or SRADVEN=1

Cancer Advanced Technologies (8 points possible)

1 point awarded if
FFDMHOS, FFDMSYS or FFDMVEN=1
IGRTHOS, IGRTSYS or IGRTVEN=1
IMRTHOS, IMRTSYS or IMRTVEN=1
ROBOHOS, ROBOSYS or ROBOVEN=1
PETCTHOS, PETCTSYS or PETCTVEN=1
BEAMHOS, BEAMSYS or BEAMVEN=1
SRADHOS, SRADSYS or SRADVEN=1
OTBONHOS, OTBONSYS or OTBONVEN=1

Cardiology & Heart Surgery Advanced Technologies (6 points possible)

1 point awarded if	
MSCTHOS MSCTSYS, MSCTVEN, MSCTGHOS, MSCTGSYS or MSCTGVEN=1	
PETCTHOS, PETCTSYS or PETCTVEN=1	
ROBOHOS, ROBOSYS or ROBOVEN=1	
SPECTHOS, SPECTSYS, SPECTVEN=1	
TISUHOS, TISUSYS or TISUVEN=1	
CMS Heart Transplant Center=1	

Diabetes & Endocrinology Advanced Technologies (4 points possible)

1 point awarded if
DRADFHOS, DRADFSYS or DRADFVEN=1
IGRTHOS, IGRTSYS or IGRTVEN=1
PETCTHOS, PETCTSYS or PETCTVEN=1
SRADHOS, SRADSYS or SRADVEN=1

Ear, Nose & Throat Advanced Technologies (1 point possible)

1 point awarded if
SRADHOS, SRADSYS or SRADVEN=1

Gastroenterology & GI Surgery Advanced Technologies (7 points possible)

1 point awarded if	
DRADFHOS, DRADFSYS or DRADFVEN=1	
ENDOAHOS, ENDOASYS or ENDOAVEN=1	
ENDORHOS, ENDORSYS or ENDORVEN=1	
ENDOUHOS, ENDOUSYS or ENDOUVEN=1	
IGRTHOS, IGRTSYS or IGRTVEN=1	
SRADHOS, SRADSYS or SRADVEN=1	
CMS Liver Transplant Center=1	

Gynecology Advanced Technologies (5 points possible)

1 point awarded if
FFDMHOS, FFDMSYS or FFDMVEN=1
IGRTHOS, IGRTSYS or IGRTVEN=1
PETCTHOS, PETCTSYS or PETCTVEN=1
ROBOHOS, ROBOSYS or ROBOVEN=1
SRADHOS, SRADSYS or SRADVEN=1

Nephrology Advanced Technologies (7 points possible)

1 point awarded if	
DRADFHOS, DRADFSYS or DRADFVEN=1	
IGRTHOS, IGRTSYS or IGRTVEN=1	
MSCTHOS, MSCTSYS, MSCTVEN, MSCTGHOS, MSCTGSYS or MSCTGVEN=1	
PETCTHOS, PETCTSYS or PETCTVEN=1	
ROBOHOS, ROBOSYS or ROBOVEN=1	
SRADHOS, SRADSYS or SRADVEN=1	
CMS Kidney Transplant Center=1	

Neurology & Neurosurgery Advanced Technologies (5 points possible)

1 point awarded if
DRADFHOS, DRADFSYS or DRADFVEN=1
IGRTHOS, IGRTSYS or IGRTVEN=1
PETCTHOS, PETCTSYS or PETCTVEN=1
SPECTHOS, SPECTSYS or SPECTVEN=1
SRADHOS, SRADSYS or SRADVEN=1

Orthopedics Advanced Technologies (2 points possible)

1 point awarded if	
CAOSHOS, CAOSSYSor CAOSVEN=1	
TISUHOS, TISUSYS or TISUVEN=1	

Pulmonology Advanced Technologies (6 points possible)

1 point awarded if
DRADFHOS, DRADFSYS or DRADFVEN=1
IGRTHOS, IGRTSYS or IGRTVEN=1
MSCTHOS, MSCTSYS, MSCTVEN, MSCTGHOS, MSCTGSYS or MSCTGVEN=1
PETCTHOS, PETCTSYS or PETCTVEN=1
SRADHOS, SRADSYS or SRADVEN=1
CMS Lung Transplant Center=1

Urology Advanced Technologies (6 points possible)

1 point awarded if
DRADFHOS, DRADFSYS or DRADFVEN=1
IGRTHOS, IGRTSYS or IGRTVEN=1
IMRTHOS, IMRTSYS or IMRTVEN=1
PETCTHOS, PETCTSYS or PETCTVEN=1
ROBOHOS, ROBOSYS or ROBOVEN=1
SRADHOS, SRADSYS or SRADVEN=1

Nurse Staffing

Index equals:

Calculation for hospitals with <u>no</u> onsite skilled nursing: Full-time Equivalent Registered Nurses (FTEN) divided by Adjusted Average Daily Census (ADJADC). In cases where FTEN is missing the value is imputed using a sample of hospitals with non-extreme ratios with the following data: FTEN (Full time equivalent registered nurses reported), FTERN (Full time equivalent registered nurses estimated), ADJADC (Adjusted Average Daily Census) BDTOT (total hospital beds set up and staffed).

Calculation for hospitals with onsite skilled nursing: If a hospital has a nursing home type of long-term care unit (SUNITS=1) and reports registered nurse FTEs for this facility (FTERNLT>0), then calculate the ratio by dividing the Registered Nurses FTEs (FTEN) – the Registered Nurses FTEs assigned to the nursing facility (FTERNLT) by the modified Adjusted Average Daily Census (ADJADCH). Note that the ADJADCH is provided by the AHA directly to the project.

Trauma Center

"Yes" if...

TRAUML90=1 or 2 and TRAUMHOS=1

Cancer Patient Services (8 points possible)

1 point awarded if
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Cardiology & Heart Surgery Patient Services (7 points possible)

1 point awarded if
CHABHOS, CHABSYS or CHABVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Diabetes & Endocrinology Patient Services (8 points possible)

1 point awarded if
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Ear, Nose & Throat Patient Services (8 points possible)

1 point awarded if
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYSor AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Gastroenterology & GI Surgery Patient Services (8 points possible)

1 point awarded if
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Geriatric Care Patient Services (9 points possible)

1 point awarded if
ALZHOS, ALZSYS or ALZVEN=1
ARTHCHOS, ARTHCSYS or ARTHCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYSor PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
PSYGRHOS, PSYGRSYS or PSYGRVEN=1
LINGHOS, LINGSYS or LINGVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Gynecology Patient Services (9 points possible)

1 point awarded if
FRTCHOS, FRTCSYS or FRTCVEN=1
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Nephrology Patient Services (8 points possible)

1 point awarded if
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Neurology & Neurosurgery Patient Services (9 points possible)

1 point awarded if
ALZHOS, ALZSYS or ALZVEN=1
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Orthopedics Patient Services (7 points possible)

1 point awarded if
ARTHCHOS, ARTHCSYS or ARTHCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Pulmonology Patient Services (8 points possible)

1 point awarded if
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Urology Patient Services (9 points possible)

1 point awarded if
FRTCHOS, FRTCSYS or FRTCVEN=1
GNTCHOS, GNTCSYS or GNTCVEN=1
HOSPCHOS, HOSPCSYS or HOSPCVEN=1
PAINHOS, PAINSYS or PAINVEN=1
PALHOS, PALSYS or PALVEN=1
PCAHOS, PCASYS or PCAVEN=1
LINGHOS, LINGSYS or LINGVEN=1
AIRBHOS, AIRBSYS or AIRBVEN=1
WMGTHOS, WMGTSYS or WMGTVEN=1

Intensivists

1 point awarded if...

if (FTEINT>0 or TPINT>0 or INTCAR>0 or FTEMSI>0 or FTECIC>0 or FTEOIC>0) then intens=1; if FTEINT>0 and FTEINT=sum(of FTENIC FTEPIC) then intens=0;

Appendix C 2018-19 Diagnosis Related Group (DRG) Groupings by Specialty

Cancer

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
014	S	Allogeneic bone marrow transplant	Include all	1	2.3397
016	S	Autologous bone marrow transplant w CC/MCC	Include all	1	1.7384
017	S	Autologous bone marrow transplant w/o CC/MCC	Include all	1	2.3134
023	S	Cranio w major dev impl/acute complex CNS PDX w MCC or chemo implant	Include procedures: 0010	1	2.3397
054	М	Nervous system neoplasms w MCC	Include all	1	0.9235
055	М	Nervous system neoplasms w/o MCC	Include all	2	1.0290
146	М	Ear, nose, mouth & throat malignancy w MCC	Include all	1	1.0490
147	М	Ear, nose, mouth & throat malignancy w CC	Include all	2	1.1970
148	М	Ear, nose, mouth & throat malignancy w/o CC/MCC	Include all	2	1.1415
180	М	Respiratory neoplasms w MCC	Include all	1	0.7616
181	М	Respiratory neoplasms w CC	Include all	2	0.8062
182	М	Respiratory neoplasms w/o CC/MCC	Include all	2	0.8454
374	М	Digestive malignancy w MCC	Include all	1	0.8565
375	М	Digestive malignancy w CC	Include all	2	0.8879
376	М	Digestive malignancy w/o CC/MCC	Include all	2	0.8864
435	М	Malignancy of hepatobiliary system or pancreas w MCC	Include all	1	0.8532
436	М	Malignancy of hepatobiliary system or pancreas w CC	Include all	2	0.8889
437	М	Malignancy of hepatobiliary system or pancreas w/o CC/MCC	Include all	2	0.9645
		· · · · · · · · · · · · · · · · · · ·	Include		
456	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w MCC	diagnoses: 1702, 1985, 20973	1	1.0926
457	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w CC	See MS-DRG 456	2	1.2149
458	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w/o CC/MCC	See MS-DRG 456	2	2.3397
542	M	Pathological fractures & musculoskelet & conn tiss malig w MCC	Exclude diagnoses: 4463- 4, 7331, 73310-6, 73319, 73393-8	1	0.8765
543	М	Pathological fractures & musculoskelet & conn tiss malig w CC	See MS-DRG 542	2	0.9119
544	M	Pathological fractures & musculoskelet & conn tiss malig w/o CC/MCC	See MS-DRG 542	2	1.0339
582	S	Mastectomy for malignancy w CC/MCC	Include all	2	1.2437
583	S	Mastectomy for malignancy w/o CC/MCC	Include all	2	2.0884
595	М	Major skin disorders w MCC	Include diagnoses: 1720, 1722-9, 20931-6	1	0.9484
596	M	Major skin disorders w/o MCC	See MS-DRG 595	2	1.0719
597	M	Malignant breast disorders w MCC	Include all	1	1.0466
598	M	Malignant breast disorders w CC	Include all	2	1.0256
599	M	Malignant breast disorders w/o CC/MCC	Include all	2	1.2826
656	S	Kidney & ureter procedures for neoplasm w MCC	Include all	1	0.7450
657	S	Kidney & ureter procedures for neoplasm w CC	Include all	2	0.9284
658	S	Kidney & ureter procedures for neoplasm w/o CC/MCC	Include all	2	1.0187
686	M	Kidney & urinary tract neoplasms w MCC	Include all	2	0.7893
687	M	Kidney & urinary tract neoplasms w MCC Kidney & urinary tract neoplasms w CC	Include all	2	0.7918
688	M	Kidney & urinary tract neoplasms w/o CC/MCC	Include all	3	0.7316
715	S	Other male reproductive system O.R. proc for malignancy w CC/MCC	Include all	2	0.9822
716	S	Other male reproductive system O.R. proc for malignancy w/o CC/MCC	Include all	2	1.3558
722	M	Malignancy, male reproductive system w MCC	Include all	1	0.7969
723	M	Malignancy, male reproductive system w MCC	Include all	2	0.7901

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
724	М	Malignancy, male reproductive system w/o CC/MCC	Include all	2	0.9294
736	S	Uterine & adnexa proc for ovarian or adnexal malignancy w MCC	Include all	1	0.9199
737	S	Uterine & adnexa proc for ovarian or adnexal malignancy w CC	Include all	2	1.1885
738	S	Uterine & adnexa proc for ovarian or adnexal malignancy w/o CC/MCC	Include all	2	1.3565
739	S	Uterine,adnexa proc for non-ovarian/adnexal malig w MCC	Include all	1	0.8376
740	S	Uterine,adnexa proc for non-ovarian/adnexal malig w CC	Include all	2	1.1412
741	S	Uterine,adnexa proc for non-ovarian/adnexal malig w/o CC/MCC	Include all	2	1.1463
754	М	Malignancy, female reproductive system w MCC	Include all	1	0.9159
755	М	Malignancy, female reproductive system w CC	Include all	2	0.9632
756	М	Malignancy, female reproductive system w/o CC/MCC	Include all	2	1.0811
808	М	Major hematol/immun diag exc sickle cell crisis & coagul w MCC	Include diagnoses: 99685	1	1.5901
809	М	Major hematol/immun diag exc sickle cell crisis & coagul w CC	See MS-DRG 809	2	2.1764
810	M	Major hematol/immun diag exc sickle cell crisis & coagul w/o CC/MCC	See MS-DRG 809	2	2.3397
820	S	Lymphoma & leukemia w major O.R. procedure w MCC	Include all	1	0.9834
821	S	Lymphoma & leukemia w major O.R. procedure w CC	Include all	2	1.0699
822	S	Lymphoma & leukemia w major O.R. procedure w/o CC/MCC	Include all	2	1.0023
823	S	Lymphoma & non-acute leukemia w other O.R. proc w MCC	Include all	1	0.8915
824	S	Lymphoma & non-acute leukemia w other O.R. proc w CC	Include all	2	1.0059
825	S	Lymphoma & non-acute leukemia w other O.R. proc w/o CC/MCC	Include all	2	0.9945
826	S	Myeloprolif disord or poorly diff neopl w maj O.R. proc w MCC	9, v1000-9, v1011-2, v1020-2, v1029, v1040-9, v1050-3, v1059, v1060-3, v1069, v1071-2, v1079, v1081-8, v1090- 1,v1322	1	1.0073
827	S	Myeloprolif disord or poorly diff neopl w maj O.R. proc w CC	See MS-DRG 826	2	1.1576
828	S	Myeloprolif disord or poorly diff neopl w maj O.R. proc w/o CC/MCC	See MS-DRG 826	2	0.9193
829	S	Myeloprolif disord or poorly diff neopl w other O.R. proc w CC/MCC	See MS-DRG 826	2	1.1229
830	S	Myeloprolif disord or poorly diff neopl w other O.R. proc w/o CC/MCC	See MS-DRG 826	2	1.0037
834	М	Acute leukemia w/o major O.R. procedure w MCC	Include all	1	1.1880
835	M	Acute leukemia w/o major O.R. procedure w CC	Include all	2	1.1691
836	М	Acute leukemia w/o major O.R. procedure w/o CC/MCC	Include all	2	1.5228
837	М	Chemo w acute leukemia as sdx or w high dose chemo agent w MCC	Include all	1	1.9555
838	М	Chemo w acute leukemia as sdx w CC or high dose chemo agent	Include all	2	2.3397
839	M	Chemo w acute leukemia as sdx w/o CC/MCC	Include all	2	2.3397
840	М	Lymphoma & non-acute leukemia w MCC	Include all	1	0.8052
841	M	Lymphoma & non-acute leukemia w CC	Include all	2	0.8694
842	M	Lymphoma & non-acute leukemia w/o CC/MCC	Include all	2	1.0030
843	M	Other myeloprolif dis or poorly diff neopl diag w MCC	Exclude diagnosis: v10, v711	3	0.8634
844	М	Other myeloprolif dis or poorly diff neopl diag w CC	See MS-DRG 844	3	0.8607
845	М	Other myeloprolif dis or poorly diff neopl diag w/o CC/MCC	See MS-DRG 844	3	1.4376
846	М	Chemotherapy w/o acute leukemia as secondary diagnosis w MCC	Include all	3	1.5199
847	М	Chemotherapy w/o acute leukemia as secondary diagnosis w CC	Include all	3	1.8704
848	M	Chemotherapy w/o acute leukemia as secondary diagnosis w/o CC/MCC	Include all	3	1.5973

Cardiology & Heart Surgery

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
001	S	Heart transplant or implant of heart assist system w MCC	Include all	1	1.5394
002	S	Heart transplant or implant of heart assist system w/o MCC	Include all	1	1.7997
			Include procedures: 3712, 3724, 3731, 3791, 3805, 3815, 3835, 3845, 3855, 3865,		1.6482
163	S	Major chest procedures w MCC	3885, 3954	1	1 5705
164	S	Major chest procedures w CC	See MS-DRG: 163	2	1.5705
165	S	Major chest procedures w/o CC/MCC	See MS-DRG: 164	2	1.9853
215	S	Other heart assist system implant	Include all	1	1.2200
216	S	Cardiac valve & oth maj cardiothoracic proc w card cath w MCC	Include all	1	1.1160
217	S	Cardiac valve & oth maj cardiothoracic proc w card cath w CC	Include all	2	1.1409
218	S	Cardiac valve & oth maj cardiothoracic proc w card cath w/o CC/MCC	Include all	2	1.1710
219	S	Cardiac valve & oth maj cardiothoracic proc w/o card cath w MCC	Include all	1	1.2124
220	S	Cardiac valve & oth maj cardiothoracic proc w/o card cath w CC	Include all	2	1.2043
221	S	Cardiac valve & oth maj cardiothoracic proc w/o card cath w/o CC/MCC	Include all	2	1.2455
222	S	Cardiac defib implant w cardiac cath w AMI/HF/shock w MCC	Include all	1	1.1827
223	S	Cardiac defib implant w cardiac cath w AMI/HF/shock w/o MCC	Include all	1	1.2347
224	S	Cardiac defib implant w cardiac cath w/o AMI/HF/shock w MCC	Include all	3	1.6120
225	S	Cardiac defib implant w cardiac cath w/o AMI/HF/shock w/o MCC	Include all	3	0.8756
226	S	Cardiac defibrillator implant w/o cardiac cath w MCC	Include all	1	1.0619
227	S	Cardiac defibrillator implant w/o cardiac cath w/o MCC	Include all	1	1.1528
228	S	Other cardiothoracic procedures w MCC	Include all	1	1.9853
229	S	Other cardiothoracic procedures w CC	Include all	2	1.9853
230	S	Other cardiothoracic procedures w/o CC/MCC	Include all	2	1.9853
231	S	Coronary bypass w PTCA w MCC	Include all	1	1.4067
232	S	Coronary bypass w PTCA w/o MCC	Include all	2	1.5504
233	S	Coronary bypass w cardiac cath w MCC	Include all	2	1.2165
234	S	Coronary bypass w cardiac cath w/o MCC	Include all	3	1.3114
235	S	Coronary bypass w/o cardiac cath w MCC	Include all	2	1.2028
236	S	Coronary bypass w/o cardiac cath w/o MCC	Include all	3	1.2658
237	S	Major cardiovasc procedures w MCC	Include all	1	1.1770
238	S	Major cardiovascular procedures w/o MCC	Include all	2	1.1253
242	S	Permanent cardiac pacemaker implant w MCC	Include all	2	0.8299
243	S	Permanent cardiac pacemaker implant w CC	Include all	2	0.8482
244	S	Permanent cardiac pacemaker implant w/o CC/MCC	Include all	3	0.9191
245	S	AICD Generator Procedures	Include all	2	0.9820
246	S	Perc cardiovasc proc w drug-eluting stent w MCC or 4+ vessels/stents	Include all	2	1.1286
247	S	Perc cardiovasc proc w drug-eluting stent w/o MCC	Include all	3	1.1264
248	S	Perc cardiovasc proc w non-drug-eluting stent w MCC or 4+ ves/stents	Include all	2	1.1063
249	S	Perc cardiovasc proc w non-drug-eluting stent w/o MCC	Include all	3	1.1199
250	S	Perc cardiovasc proc w/o coronary artery stent w MCC	Include all	3	1.0337
251	S	Perc cardiovasc proc w/o coronary artery stent or AMI w/o MCC	Include all	3	1.0763
252	S	Other vascular procedures w MCC	Include all	2	0.9369
253	S	Other vascular procedures w CC	Include all	2	1.0572
254	S	Other vascular procedures w/o CC/MCC	Include all	3	1.0911
260	S	Cardiac pacemaker revision except device replacement w MCC	Include all	1	0.9790

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
261	S	Cardiac pacemaker revision except device replacement w CC	Include all	2	1.0476
262	S	Cardiac pacemaker revision except device replacement w/o CC/MCC	Include all	2	0.9819
265	S	ACID lead procedures	Include all	2	1.1371
266	S	Endovascular Cardiac Valve Replacement with MCC	Include all	1	0.7750
267	S	Endovascular Cardiac Valve Replacement without MCC	Include all	2	0.7886
280	М	Acute myocardial infarction, discharged alive w MCC	Include all	1	0.8963
281	М	Acute myocardial infarction, discharged alive w CC	Include all	2	1.0086
282	М	Acute myocardial infarction, discharged alive w/o CC/MCC	Include all	2	1.1147
283	М	Acute myocardial infarction, expired w MCC	Include all	1	0.8850
284	М	Acute myocardial infarction, expired w CC	Include all	2	0.8576
285	M	Acute myocardial infarction, expired w/o CC/MCC	Include all	2	0.8513
286	M	Circulatory disorders except AMI, w card cath w MCC	Include all	2	1.1181
287	М	Circulatory disorders except AMI, w card cath w/o MCC	Include all	3	1.2656
288	M	Acute & subacute endocarditis w MCC	Include all	1	1.5745
289	M	Acute & subacute endocarditis w CC	Include all	2	1.7098
290	М	Acute & subacute endocarditis w/o CC/MCC	Include all	2	1.9853
291	М	Heart failure & shock w MCC	Include all	1	0.8864
292	M	Heart failure & shock w CC	Include all	2	0.9482
293	М	Heart failure & shock w/o CC/MCC	Include all	2	0.8948
306	M	Cardiac congenital & valvular disorders w MCC	Include all	1	0.9673
308	М	Cardiac arrhythmia & conduction disorders w MCC	Include all	1	0.9159
309	М	Cardiac arrhythmia & conduction disorders w CC	Include all	2	1.0055
314	М	Other circulatory system diagnoses w MCC	Include all	2	1.1230
315	М	Other circulatory system diagnoses w CC	Include all	2	1.3611
316	М	Other circulatory system diagnoses w/o CC/MCC	Include all	3	1.4346

Diabetes & Endocrinology

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
614	S	Adrenal & pituitary procedures w CC/MCC	Include all	2	1.6769
615	S	Adrenal & pituitary procedures w/o CC/MCC	Include all	2	1.5354
619	S	O.R. procedures for obesity w MCC	Include all	1	1.1577
620	S	O.R. procedures for obesity w CC	Include all	2	1.9570
621	S	O.R. procedures for obesity w/o CC/MCC	Include all	2	2.1677
622	S	Skin grafts & wound debrid for endoc, nutrit & metab dis w MCC	Include all	1	0.7843
623	S	Skin grafts & wound debrid for endoc, nutrit & metab dis w CC	Include all	2	1.0656
624	S	Skin grafts & wound debrid for endoc, nutrit & metab dis w/o CC/MCC	Include all	2	1.4868
625	S	Thyroid, parathyroid & thyroglossal procedures w MCC	Include all	1	0.8667
626	S	Thyroid, parathyroid & thyroglossal procedures w CC	Include all	2	1.6079
627	S	Thyroid, parathyroid & thyroglossal procedures w/o CC/MCC	Include all	2	1.5174
628	S	Other endocrine, nutrit & metab O.R. proc w MCC	Include all	1	0.7726
629	S	Other endocrine, nutrit & metab O.R. proc w CC	Include all	2	0.9849
630	S	Other endocrine, nutrit & metab O.R. proc w/o CC/MCC	Include all	2	1.7048
637	М	Diabetes w MCC	Include all	3	0.9315
638	М	Diabetes w CC	Include all	3	1.0830
639	М	Diabetes w/o CC/MCC	Include all	3	1.0233
640	М	Misc disorders of nutrition, metabolism, fluids/electrolyes w MCC	Exclude diagnosis: 77934	3	0.7379
643	М	Endocrine disorders w MCC	Include all	3	0.7271
644	М	Endocrine disorders w CC	Include all	3	0.8183

Ear, Nose & Throat

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
011	S	Tracheostomy for face,mouth & neck diagnoses w MCC	Include all	1	1.0148
012	S	Tracheostomy for face, mouth & neck diagnoses w CC	Include all	1	1.0746
013	S	Tracheostomy for face, mouth & neck diagnoses w/o CC/MCC	Include all	1	1.1956
129	S	Major head & neck procedures w CC/MCC or major device	Include all	2	0.9894
130	S	Major head & neck procedures w/o CC/MCC	Include all	2	1.1360
131	S	Cranial/Facial Procedures w CC/MCC	Include all	3	1.9444
132	S	Cranial/Facial Procedures w/o CC/MCC	Include all	3	2.3676
133	S	Other ear, nose, mouth & throat O.R. procedures w CC/MCC	Include all	3	1.7458
134	S	Other ear, nose, mouth & throat O.R. procedures w/o CC/MCC	Include all	3	2.3676
139	S	Salivary gland procedures	Include all	3	0.7548
146	М	Ear, nose, mouth & throat malignancy w MCC	Include all	1	0.9976
147	М	Ear, nose, mouth & throat malignancy w CC	Include all	2	1.1384
148	М	Ear, nose, mouth & throat malignancy w/o CC/MCC	Include all	2	1.0856
152	М	Otitis media & URI w MCC	Include all	3	0.8052
154	М	Other ear, nose, mouth and throat diagnosis w MCC	Include all	3	0.7902
155	М	Other ear, nose, mouth and throat diagnosis w CC	Include all	3	0.7538
156	М	Other ear, nose, mouth and throat diagnosis w/o CC/MCC	Include all	3	0.9958

Gastroenterology & GI Surgery

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
326	S	Stomach, esophageal & duodenal proc w MCC	Include all	2	1.0549
327	S	Stomach, esophageal & duodenal proc w CC	Include all	2	1.2733
328	S	Stomach, esophageal & duodenal proc w/o CC/MCC	Include all	3	1.3079
329	S	Major small & large bowel procedures w MCC	Include all	1	0.9445
330	S	Major small & large bowel procedures w CC	Include all	2	1.1412
331	S	Major small & large bowel procedures w/o CC/MCC	Include all	2	1.2236
332	S	Rectal resection w MCC	Include all	1	0.9738
333	S	Rectal resection w CC	Include all	1	1.2086
334	S	Rectal resection w/o CC/MCC	Include all	2	1.2859
335	S	Peritoneal adhesiolysis w MCC	Include all	1	0.8540
336	S	Peritoneal adhesiolysis w CC	Include all	2	1.1026
337	S	Peritoneal adhesiolysis w/o CC/MCC	Include all	2	1.2104
344	S	Minor small & large bowel procedures w MCC	Include procedures: 4500, 4502-3, 4515, 4526, 4534, 4549, 465, 4650-2, 466, 4660-4, 4791, 480, 4825, 5783	2	0.9359
345	S	Minor small & large bowel procedures w CC	Include procedures: 4502- 3, 4515, 4526, 4534, 4549, 465, 4650-2, 466, 4660- 4, 4791, 480, 4825, 5783	2	1.3181
346	S	Minor small & large bowel procedures w/o CC/MCC	See MS-DRG 345	3	1.3348
356	S	Other digestive system O.R. procedures w MCC	Include all	2	0.8613
357	S	Other digestive system O.R. procedures w MCC	Include all	2	1.0257

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
358	S	Other digestive system O.R. procedures w/o CC/MCC	Include all	3	1.5047
368	М	Major esophageal disorders w MCC	Include all	1	1.0266
369	М	Major esophageal disorders w CC	Include all	2	1.1934
370	М	Major esophageal disorders w/o CC/MCC	Include all	2	1.4809
371	М	Major gastrointestinal disorders & peritoneal infections w MCC	Include all	1	0.8054
372	М	Major gastrointestinal disorders & peritoneal infections w CC	Include all	2	0.9248
373	М	Major gastrointestinal disorders & peritoneal infections w/o CC/MCC	Include all	2	1.2263
374	М	Digestive malignancy w MCC	Include all	1	0.9543
375	М	Digestive malignancy w CC	Include all	2	0.9892
376	М	Digestive malignancy w/o CC/MCC	Include all	2	0.9876
377	М	G.I. hemorrhage w MCC	Include all	1	0.7244
378	М	G.I. hemorrhage w CC	Include all	2	0.7662
379	М	G.I. hemorrhage w/o CC/MCC	Include all	2	0.8108
380	М	Complicated peptic ulcer w MCC	Include all	1	0.8952
381	М	Complicated peptic ulcer w CC	Include all	2	0.9606
382	М	Complicated peptic ulcer w/o CC/MCC	Include all	2	1.1716
383	М	Uncomplicated peptic ulcer w MCC	Include all	3	0.8503
385	М	Inflammatory bowel disease w MCC	Include all	1	1.6380
386	М	Inflammatory bowel disease w CC	Include all	2	1.8681
387	М	Inflammatory bowel disease w/o CC/MCC	Include all	2	1.8681
388	М	G.I. obstruction w MCC	Include all	3	0.7419
389	М	G.I. obstruction w CC	Include all	3	0.7470
391	М	Esophagitis, gastroent & misc digest disorders w MCC	Include all	3	0.8862
393	М	Other digestive system diagnoses w MCC	Include all	1	0.8619
394	М	Other digestive system diagnoses w CC	Include all	2	0.9271
405	S	Pancreas, liver & shunt procedures w MCC	Include all	1	1.1759
406	S	Pancreas, liver & shunt procedures w CC	Include all	1	1.2587
407	S	Pancreas, liver & shunt procedures w/o CC/MCC	Include all	2	1.3931
408	S	Biliary tract proc except only cholecyst w or w/o c.d.e. w MCC	Include all	2	0.9804
409	S	Biliary tract proc except only cholecyst w or w/o c.d.e. w CC	Include all	2	1.1517
410	S	Biliary tract proc except only cholecyst w or w/o c.d.e. w/o CC/MCC	Include all	3	1.8681
411	S	Cholecystectomy w c.d.e. w MCC	Include all	1	0.9604
412	S	Cholecystectomy w c.d.e. w CC	Include all	2	1.1475
413	S	Cholecystectomy w c.d.e. w/o CC/MCC	Include all	2	1.4508
414	S	Cholecystectomy except by laparoscope w/o c.d.e. w MCC	Include all	1	0.9158
415	S	Cholecystectomy except by laparoscope w/o c.d.e. w CC	Include all	2	1.1295
417	S	Laparoscopic cholecystectomy w/o c.d.e. w MCC	Include all	3	0.9426
418	S	Laparoscopic cholecystectomy w/o c.d.e. w CC	Include all	3	1.1402
420	S	Hepatobiliary diagnostic procedures w MCC	Include all	1	1.1822
421	S	Hepatobiliary diagnostic procedures w CC	Include all	2	1.0966
422	S	Hepatobiliary diagnostic procedures w/o CC/MCC	Include all	2	1.1667
423	S	Other hepatobiliary or pancreas O.R. procedures w MCC	Include all	3	1.0974
424	S	Other hepatobiliary or pancreas O.R. procedures w CC	Include all	3	1.1450
425	S	Other hepatobiliary or pancreas O.R. procedures w/o CC/MCC	Include all	3	0.6785
432	M	Cirrhosis & alcoholic hepatitis w MCC	Include all	1	1.5705
433	М	Cirrhosis & alcoholic hepatitis w CC	Include all	2	1.7711
434	М	Cirrhosis & alcoholic hepatitis w/o CC/MCC	Include all	2	1.8681
435	М	Malignancy of hepatobiliary system or pancreas w MCC	Include all	1	0.9506
436	М	Malignancy of hepatobiliary system or pancreas w CC	Include all	2	0.9904
437	M	Malignancy of hepatobiliary system or pancreas w/o CC/MCC	Include all	2	1.0747
438	M	Disorders of pancreas except malignancy w MCC	Include all	1	1.2403
439	М	Disorders of pancreas except malignancy w CC	Include all	2	1.5916

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
440	M	Disorders of pancreas except malignancy w/o CC/MCC	Include all	2	1.6413
441	M	Disorders of liver except malig,cirr,alc hepa w MCC	Exclude diagnosis: 7948	1	1.1502
442	М	Disorders of liver except malig, cirr, alc hepa w CC	See MS-DRG 442	2	1.2484

Geriatrics

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
001	S	Heart transplant or implant of heart assist system w MCC	Include all	1	1.0093
002	S	Heart transplant or implant of heart assist system w/o MCC	Include all	1	1.0599
003	S	ECMO or trach w MV 96+ hrs or PDX exc face, mouth & neck w maj O.R.	Include all	1	1.0364
004	S	Trach w MV 96+ hrs or PDX exc face, mouth & neck w/o maj O.R.	Include all	1	1.0443
005	S	Liver transplant w MCC or intestinal transplant	Include all	1	0.9274
006	S	Liver transplant w/o MCC	Include all	1	0.9274
007	S	Lung transplant	Include all	1	0.9274
800	S	Simultaneous pancreas/kidney transplant	Include all	1	1.0000
010	S	Pancreas transplant	Include all	1	1.0000
011	S	Tracheostomy for face, mouth & neck diagnoses w MCC	Include all	1	1.0455
012	S	Tracheostomy for face, mouth & neck diagnoses w CC	Include all	1	0.9796
013	S	Tracheostomy for face, mouth & neck diagnoses w/o CC/MCC	Include all	1	0.9789
014	S	Allogeneic bone marrow transplant	Include all	1	1.1270
016	S	Autologous bone marrow transplant w CC/MCC	Include all	1	1.1270
017	S	Autologous bone marrow transplant w/o CC/MCC	Include all	1	1.1270
020	S	Intracranial vascular procedures w PDX hemorrhage w MCC	Include all	1	1.0327
021	S	Intracranial vascular procedures w PDX hemorrhage w CC	Include all	1	1.0144
022	S	Intracranial vascular procedures w PDX hemorrhage w/o CC/MCC	Include all	1	0.9274
023	S	Cranio w major dev impl/acute complex CNS PDX w MCC or chemo implant	Include all	1	1.0169
024	S	Cranio w major dev impl/acute complex CNS PDX w/o MCC	Include all	1	1.0269
025	S	Craniotomy & endovascular intracranial procedures w MCC	Include all	1	1.0170
026	S	Craniotomy & endovascular intracranial procedures w CC	Include all	1	1.0260
027	S	Craniotomy & endovascular intracranial procedures w/o CC/MCC	Include all	1	1.0224
028	S	Spinal procedures w MCC	Include all	1	1.0924
029	S	Spinal procedures w CC or spinal neurostimulators	Include all	2	1.0227
030	S	Spinal procedures w/o CC/MCC	Include all	2	0.9973
031	S	Ventricular shunt procedures w MCC	Include all	1	1.0178
032	S	Ventricular shunt procedures w CC	Include all	2	0.9835
033	S	Ventricular shunt procedures w/o CC/MCC	Include all	2	0.9813
034	S	Carotid artery stent procedure w MCC	Include all	1	0.9893
035	S	Carotid artery stent procedure w CC	Include all	2	0.9877
036	S	Carotid artery stent procedure w/o CC/MCC	Include all	2	0.9728
037	S	Extracranial procedures w MCC	Include all	2	0.9869
038	S	Extracranial procedures w CC	Include all	2	0.9900
039	S	Extracranial procedures w/o CC/MCC	Include all	3	1.0231
040	S	Periph & cranial nerve & other nerv syst proc w MCC	Include all	2	1.0219
041	S	Periph/cranial nerve & other nerv syst proc w CC or periph neurostim	Include all	2	1.0050
042	S	Periph & cranial nerve & other nerv syst proc w/o CC/MCC	Include all	3	1.0211
052	М	Spinal disorders & injuries w CC/MCC	Include all	2	1.0441
053	М	Spinal disorders & injuries w/o CC/MCC	Include all	2	1.0331

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
054	M	Nervous system neoplasms w MCC	Include all	1	1.0102
055	М	Nervous system neoplasms w/o MCC	Include all	2	1.0224
056	М	Degenerative nervous system disorders w MCC	Include all	1	1.0196
057	М	Degenerative nervous system disorders w/o MCC	Include all	2	1.0105
058	М	Multiple sclerosis & cerebellar ataxia w MCC	Include all	1	0.9776
059	М	Multiple sclerosis & cerebellar ataxia w CC	Include all	2	0.9914
060	М	Multiple sclerosis & cerebellar ataxia w/o CC/MCC	Include all	2	0.9804
061	М	Acute ischemic stroke w use of thrombolytic agent w MCC	Include all	1	1.0073
062	М	Acute ischemic stroke w use of thrombolytic agent w CC	Include all	2	1.0094
063	М	Acute ischemic stroke w use of thrombolytic agent w/o CC/MCC	Include all	2	1.0141
064	М	Intracranial hemorrhage or cerebral infarction w MCC	Include all	1	1.0151
065	М	Intracranial hemorrhage or cerebral infarction w CC	Include all	2	1.0064
066	М	Intracranial hemorrhage or cerebral infarction w/o CC/MCC	Include all	2	1.0175
067	М	Nonspecific cva & precerebral occlusion w/o infarct w MCC	Include all	1	0.9985
068	М	Nonspecific cva & precerebral occlusion w/o infarct w/o MCC	Include all	2	0.9891
069	М	Transient ischemia	Include all	3	0.9910
070	М	Nonspecific cerebrovascular disorders w MCC	Include all	2	1.0061
071	М	Nonspecific cerebrovascular disorders w CC	Include all	2	0.9996
072	M	Nonspecific cerebrovascular disorders w/o CC/MCC	Include all	3	1.0053
073	М	Cranial & peripheral nerve disorders w MCC	Include all	1	0.9864
074	М	Cranial & peripheral nerve disorders w/o MCC	Include all	2	0.9984
075	М	Viral meningitis w CC/MCC	Include all	2	0.9874
076	M	Viral meningitis w/o CC/MCC	Include all	2	1.0770
077	М	Hypertensive encephalopathy w MCC	Include all	1	0.9986
078	М	Hypertensive encephalopathy w CC	Include all	2	0.9946
079	M	Hypertensive encephalopathy w/o CC/MCC	Include all	2	0.9831
080	M	Nontraumatic stupor & coma w MCC	Include all	1	1.0007
081	М	Nontraumatic stupor & coma w/o MCC	Include all	2	0.9933
082	М	Traumatic stupor & coma, coma >1 hr w MCC	Include all	1	1.0365
083	М	Traumatic stupor & coma, coma >1 hr w CC	Include all	1	1.0612
084	M	Traumatic stupor & coma, coma >1 hr w/o CC/MCC	Include all	1	1.0692
085	М	Traumatic stupor & coma, coma <1 hr w MCC	Include all	1	1.0104
086	М	Traumatic stupor & coma, coma <1 hr w CC	Include all	2	1.0217
087	M	Traumatic stupor & coma, coma <1 hr w/o CC/MCC	Include all	2	1.0232
088	M	Concussion w MCC	Include all	3	1.0454
089	М	Concussion w CC	Include all	3	1.0343
090	М	Concussion w/o CC/MCC	Include all	3	1.1270
091	M	Other disorders of nervous system w MCC	Include all	3	1.0096
092	М	Other disorders of nervous system w CC	Include all	3	0.9872
093	М	Other disorders of nervous system w/o CC/MCC	Include all	3	0.9989
094	M	Bacterial & tuberculous infections of nervous system w MCC	Include all	1	1.0215
095	M	Bacterial & tuberculous infections of nervous system w CC	Include all	2	1.0316
096	M	Bacterial & tuberculous infections of nervous system w/o CC/MCC	Include all	2	0.9828
097	M	Non-bacterial infect of nervous sys exc viral meningitis w MCC	Include all	1	0.9918
098	M	Non-bacterial infect of nervous sys exc viral meningitis w CC	Include all	2	1.0234
099	M	Non-bacterial infect of nervous sys exc viral meningitis w/o CC/MCC	Include all	2	1.0365
100	M	Seizures w MCC	Include all	2	1.0066
101	M	Seizures w/o MCC	Include all	3	1.0095
102	M	Headaches w MCC	Include all	3	0.9838
103	M	Headaches w/o MCC	Include all	3	1.0518
113	S	Orbital procedures w CC/MCC	Include all	2	1.0209
114	S	Orbital procedures w/o CC/MCC	Include all	2	0.9937

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
115	S	Extraocular procedures except orbit	Include all	3	0.9727
116	S	Intraocular procedures w CC/MCC	Include all	3	0.9820
117	S	Intraocular procedures w/o CC/MCC	Include all	3	1.0000
121	М	Acute major eye infections w CC/MCC	Include all	2	0.9931
122	М	Acute major eye infections w/o CC/MCC	Include all	2	1.0599
123	М	Neurological eye disorders	Include all	3	0.9859
124	М	Other disorders of the eye w MCC	Include all	2	1.0093
125	М	Other disorders of the eye w/o MCC	Include all	3	1.0232
129	S	Major head & neck procedures w CC/MCC or major device	Include all	2	0.9990
130	S	Major head & neck procedures w/o CC/MCC	Include all	2	1.1081
131	S	Cranial/facial procedures w CC/MCC	Include all	3	1.0689
132	S	Cranial/facial procedures w/o CC/MCC	Include all	3	0.9274
133	S	Other ear, nose, mouth & throat O.R. procedures w CC/MCC	Include all	3	0.9963
134	S	Other ear, nose, mouth & throat O.R. procedures w/o CC/MCC	Include all	3	0.9274
135	S	Sinus & mastoid procedures w CC/MCC	Include all	2	0.9490
136	S	Sinus & mastoid procedures w/o CC/MCC	Include all	2	1.0047
137	S	Mouth procedures w CC/MCC	Include all	3	1.0365
138	S	Mouth procedures w/o CC/MCC	Include all	3	0.9274
139	S	Salivary gland procedures	Include all	3	0.9274
146	M	Ear, nose, mouth & throat malignancy w MCC	Include all	1	1.0273
147	M	Ear, nose, mouth & throat malignancy w CC	Include all	2	1.0343
148	M	Ear, nose, mouth & throat malignancy w/o CC/MCC	Include all	2	1.0879
149	M	Dysequilibrium	Include all	3	0.9870
150	M	Epistaxis w MCC	Include all	3	0.9867
151	M	Epistaxis w/o MCC	Include all	3	0.9993
152	M	Otitis media & URI w MCC	Include all	3	0.9863
153	M	Otitis media & URI w/o MCC	Include all	3	0.9871
154	M	Other Ear, Nose, Mouth, and Throat Diagnoses with MCC	Include all	3	0.9920
155	M	Other Ear, Nose, Mouth, and Throat Diagnoses with CC	Include all	3	0.9932
156	M	Other Ear, Nose, Mouth, and Throat Diagnoses without CC/MCC	Include all	3	0.9854
157	M	Dental & Oral Diseases w MCC	Include all	3	1.0018
158	M	Dental & Oral Diseases w CC	Include all	3	1.0309
159	M	Dental & Oral Diseases w/o CC/MCC	Include all	3	1.0599
163	S	Major chest procedures w MCC	Include all	1	1.0152
164	S	Major chest procedures w CC	Include all	2	0.9898
165	S	Major chest procedures w/o CC/MCC	Include all	2	0.9972
166	S	Other resp system O.R. procedures w MCC	Include all	2	1.0008
167	S	Other resp system O.R. procedures w MCC	Include all	2	0.9923
168	S	Other resp system O.R. procedures w CC Other resp system O.R. procedures w/o CC/MCC	Include all	3	1.0539
175	M	Pulmonary embolism w MCC	Include all	1	0.9981
176	M	Pulmonary embolism w/o MCC	Include all	1	0.9994
177	M	Respiratory infections & inflammations w MCC	Include all	1	0.9951
178	M	Respiratory infections & inflammations w MCC Respiratory infections & inflammations w CC	Include all	2	0.9898
179	M	Respiratory infections & inflammations w CC Respiratory infections & inflammations w/o CC/MCC	Include all	2	0.9962
180	M	Respiratory neoplasms w MCC	Include all	1	1.0288
181	M	Respiratory neoplasms w MCC Respiratory neoplasms w CC	Include all	2	1.0200
182	M	Respiratory neoplasms w/o CC/MCC	Include all	2	1.1270
183	M	Major chest trauma w MCC	Include all	1	1.0624
184	M	Major chest trauma w MCC	Include all	1	1.1270
185	M	Major chest trauma w/o CC/MCC	Include all	1	1.1270
186	M	Pleural effusion w MCC	Include all	3	0.9903
-					0.9903
187	M	Pleural effusion w CC	Include all	3	0.9994

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
188	М	Pleural effusion w/o CC/MCC	Include all	3	1.1270
189	М	Pulmonary edema & respiratory failure	Include all	2	1.0246
190	М	Chronic obstructive pulmonary disease w MCC	Include all	3	0.9953
191	М	Chronic obstructive pulmonary disease w CC	Include all	3	0.9890
192	М	Chronic obstructive pulmonary disease w/o CC/MCC	Include all	3	0.9826
193	М	Simple pneumonia & pleurisy w MCC	Include all	3	0.9964
194	М	Simple pneumonia & pleurisy w CC	Include all	3	0.9951
195	М	Simple pneumonia & pleurisy w/o CC/MCC	Include all	3	0.9952
196	М	Interstitial lung disease w MCC	Include all	3	0.9989
197	М	Interstitial lung disease w CC	Include all	3	0.9840
198	М	Interstitial lung disease w/o CC/MCC	Include all	3	1.0758
199	М	Pneumothorax w MCC	Include all	1	1.0076
200	М	Pneumothorax w CC	Include all	2	1.0273
201	М	Pneumothorax w/o CC/MCC	Include all	2	0.9884
202	М	Bronchitis & asthma w CC/MCC	Include all	3	0.9853
203	М	Bronchitis & asthma w/o CC/MCC	Include all	3	0.9720
204	М	Respiratory signs & symptoms	Include all	3	0.9922
205	М	Other respiratory system diagnoses w MCC	Include all	3	1.0140
206	М	Other respiratory system diagnoses w/o MCC	Include all	3	1.0121
207	М	Respiratory system diagnosis w ventilator support 96+ hours	Include all	2	1.0040
208	М	Respiratory system diagnosis w ventilator support <96 hours	Include all	2	1.0121
215	S	Other heart assist system implant	Include all	1	1.0202
216	S	Cardiac valve & oth maj cardiothoracic proc w card cath w MCC	Include all	1	1.0072
217	S	Cardiac valve & oth maj cardiothoracic proc w card cath w CC	Include all	2	1.0148
218	S	Cardiac valve & oth maj cardiothoracic proc w card cath w/o CC/MCC	Include all	2	1.0614
219	S	Cardiac valve & oth maj cardiothoracic proc w/o card cath w MCC	Include all	1	0.9966
220	S	Cardiac valve & oth maj cardiothoracic proc w/o card cath w CC	Include all	2	0.9983
221	S	Cardiac valve & oth maj cardiothoracic proc w/o card cath w/o CC/MCC	Include all	2	0.9947
222	S	Cardiac defib implant w cardiac cath w AMI/HF/shock w MCC	Include all	1	1.0075
223	S	Cardiac defib implant w cardiac cath w AMI/HF/shock w/o MCC	Include all	1	1.0121
224	S	Cardiac defib implant w cardiac cath w/o AMI/HF/shock w MCC	Include all	3	1.0117
225	S	Cardiac defib implant w cardiac cath w/o AMI/HF/shock w/o MCC	Include all	3	0.9274
226	S	Cardiac defibrillator implant w/o cardiac cath w MCC	Include all	1	1.0062
227	S	Cardiac defibrillator implant w/o cardiac cath w/o MCC	Include all	1	1.0068
228	S	Other cardiothoracic procedures w MCC	Include all	1	1.0257
229	S	Other cardiothoracic procedures w CC	Include all	2	0.9895
230	S	Other cardiothoracic procedures w/o CC/MCC	Include all	2	1.0047
231	S	Coronary bypass w PTCA w MCC	Include all	1	1.0378
232	S	Coronary bypass w PTCA w/o MCC	Include all	2	0.9873
233	S	Coronary bypass w cardiac cath w MCC	Include all	2	1.0093
234	S	Coronary bypass w cardiac cath w/o MCC	Include all	3	1.0046
235	S	Coronary bypass w/o cardiac cath w MCC	Include all	2	1.0041
236	S	Coronary bypass w/o cardiac cath w/o MCC	Include all	3	1.0290
237	S	Major cardiovasc procedures w MCC	Include all	1	1.0037
238	S	Major cardiovascular procedures w/o MCC	Include all	2	0.9989
239	S	Amputation for circ sys disorders exc upper limb & toe w MCC	Include all	1	0.9905
240	S	Amputation for circ sys disorders exc upper limb & toe w Moo	Include all	2	1.0016
241	S	Amputation for circ sys disorders exc upper limb & toe w/o CC/MCC	Include all	2	1.0011
242	S	Permanent cardiac pacemaker implant w MCC	Include all	2	0.9903
243	S	Permanent cardiac pacemaker implant w CC	Include all	2	0.9919
270		1 - Simanoni daraido pademaker implant w 00	oiaao ali		3.0010

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
244	S	Permanent cardiac pacemaker implant w/o CC/MCC	Include all	3	0.9811
245	S	AICD generator procedures	Include all	2	1.0117
246	S	Perc cardiovasc proc w drug-eluting stent w MCC or 4+ vessels/stents	Include all	2	1.0032
247	S	Perc cardiovasc proc w drug-eluting stent w/o MCC	Include all	3	1.0050
248	S	Perc cardiovasc proc w non-drug-eluting stent w MCC or 4+ ves/stents	Include all	2	1.0013
249	S	Perc cardiovasc proc w non-drug-eluting stent w/o MCC	Include all	3	1.0018
250	S	Perc cardiovasc proc w/o coronary artery stent w MCC	Include all	3	0.9853
251	S	Perc cardiovasc proc w/o coronary artery stent w/o MCC	Include all	3	1.0005
252	S	Other vascular procedures w MCC	Include all	2	0.9918
253	S	Other vascular procedures w CC	Include all	2	0.9931
254	S	Other vascular procedures w/o CC/MCC	Include all	3	0.9999
255	S	Upper limb & toe amputation for circ system disorders w MCC	Include all	1	1.0111
256	S	Upper limb & toe amputation for circ system disorders w CC	Include all	2	0.9996
257	S	Upper limb & toe amputation for circ system disorders w/o CC/MCC	Include all	2	0.9738
258	S	Cardiac pacemaker device replacement w MCC	Include all	3	0.9572
259	S	Cardiac pacemaker device replacement w/o MCC	Include all	3	0.9820
260	S	Cardiac pacemaker revision except device replacement w MCC	Include all	1	0.9988
261	S	Cardiac pacemaker revision except device replacement w CC	Include all	2	0.9925
262	S	Cardiac pacemaker revision except device replacement w/o CC/MCC	Include all	2	0.9742
263	S	Vein ligation & stripping	Include all	3	0.9988
264	S	Other circulatory system O.R. procedures	Include all	2	0.9867
265	S	AICD lead procedures	Include all	2	1.0422
266	S	Endovascular Cardiac Valve Replacement with MCC	Include all	1	0.9751
267	S	Endovascular Cardiac Valve Replacement with MCC	Include all	2	0.9906
280	M	Acute myocardial infarction, discharged alive w MCC	Include all	1	0.9967
281	M	Acute myocardial infarction, discharged alive w CC	Include all	2	0.9917
282	M	Acute myocardial infarction, discharged alive w/o CC/MCC	Include all	2	0.9962
283	M	Acute myocardial infarction, expired w MCC	Include all	1	1.0240
284	M	Acute myocardial infarction, expired w CC	Include all	2	1.0365
285	M	Acute myocardial infarction, expired w/o CC/MCC	Include all	2	1.0180
286	M	Circulatory disorders except AMI, w card cath w MCC	Include all	2	0.9959
287	M	Circulatory disorders except AMI, w card cath who MCC	Include all	3	1.0033
288	M	Acute & subacute endocarditis w MCC	Include all	1	1.0033
289	M	Acute & subacute endocarditis w MCC Acute & subacute endocarditis w CC	Include all	2	0.9778
		Acute & subacute endocarditis w CC Acute & subacute endocarditis w/o CC/MCC		2	1.0365
290	M		Include all	1	0.9945
291	M	Heart failure & shock w MCC	Include all	2	0.9943
292	M	Heart failure & shock w CC	Include all	2	1.0028
293	M	Heart failure & shock w/o CC/MCC	Include all	2	
294	M	Deep vein thrombophlebitis w CC/MCC	Include all	3	0.9472
295	M	Deep vein thrombophlebitis w/o CC/MCC	Include all	3	1.0000
296	M	Cardiac arrest, unexplained w MCC	Include all	1	1.0264
297	M	Cardiac arrest, unexplained w CC	Include all	2	1.0578
298	M	Cardiac arrest, unexplained w/o CC/MCC	Include all	2	0.9996
299	M	Peripheral vascular disorders w MCC	Include all	1	0.9970
300	M	Peripheral vascular disorders w CC	Include all	2	0.9917
301	M	Peripheral vascular disorders w/o CC/MCC	Include all	2	1.0159
302	M	Atherosclerosis w MCC	Include all	3	1.0242
303	M	Atherosclerosis w/o MCC	Include all	3	1.0049
304	M	Hypertension w MCC	Include all	3	1.0114

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
305	М	Hypertension w/o MCC	Include all	3	0.9944
306	M	Cardiac congenital & valvular disorders w MCC	Include all	1	0.9962
307	М	Cardiac congenital & valvular disorders w/o MCC	Include all	2	0.9979
308	M	Cardiac arrhythmia & conduction disorders w MCC	Include all	1	0.9895
309	М	Cardiac arrhythmia & conduction disorders w CC	Include all	2	0.9933
310	М	Cardiac arrhythmia & conduction disorders w/o CC/MCC	Include all	2	0.9950
311	М	Angina pectoris	Include all	3	0.9960
312	М	Syncope & collapse	Include all	2	0.9952
313	М	Chest pain	Include all	3	0.9928
314	М	Other circulatory system diagnoses w MCC	Include all	2	0.9985
315	М	Other circulatory system diagnoses w CC	Include all	2	0.9985
316	М	Other circulatory system diagnoses w/o CC/MCC	Include all	3	0.9769
326	S	Stomach, esophageal & duodenal proc w MCC	Include all	2	0.9989
327	S	Stomach, esophageal & duodenal proc w CC	Include all	2	1.0066
328	S	Stomach, esophageal & duodenal proc w/o CC/MCC	Include all	3	0.9907
329	S	Major small & large bowel procedures w MCC	Include all	1	0.9951
330	S	Major small & large bowel procedures w CC	Include all	2	0.9968
331	S	Major small & large bowel procedures w/o CC/MCC	Include all	2	1.0041
332	S	Rectal resection w MCC	Include all	1	1.0005
333	S	Rectal resection w CC	Include all	1	1.0018
334	S	Rectal resection w/o CC/MCC	Include all	2	1.0627
335	S	Peritoneal adhesiolysis w MCC	Include all	1	0.9942
336	S	Peritoneal adhesiolysis w CC	Include all	2	1.0050
337	S	Peritoneal adhesiolysis w/o CC/MCC	Include all	2	0.9803
338	S	Appendectomy w complicated principal diag w MCC	Include all	3	1.0539
339	S	Appendectomy w complicated principal diag w CC	Include all	3	1.0392
340	S	Appendectomy w complicated principal diag w/o CC/MCC	Include all	3	0.9274
341	S	Appendectomy w/o complicated principal diag w MCC	Include all	3	1.0334
342	S	Appendectomy w/o complicated principal diag w CC	Include all	3	0.9919
343	S	Appendectomy w/o complicated principal diag w/o CC/MCC	Include all	3	0.9274
344	S	Minor small & large bowel procedures w MCC	Include all	2	0.9838
345	S	Minor small & large bowel procedures w CC	Include all	2	1.0021
346	S	Minor small & large bowel procedures w/o CC/MCC	Include all	3	0.9274
347	S	Anal & stomal procedures w MCC	Include all	1	0.9742
348	S	Anal & stomal procedures w CC	Include all	2	1.0042
349	S	Anal & stomal procedures w/o CC/MCC	Include all	2	0.9700
350	S	Inguinal & femoral hernia procedures w MCC	Include all	3	0.9994
351	S	Inguinal & femoral hernia procedures w CC	Include all	3	1.0013
352	S	Inguinal & femoral hernia procedures w/o CC/MCC	Include all	3	1.1270
353	S	Hernia procedures except inquinal & femoral w MCC	Include all	1	0.9726
354	S	Hernia procedures except inguinal & femoral w CC	Include all	2	0.9845
355	S	Hernia procedures except inguinal & femoral w/o CC/MCC	Include all	2	0.9904
356	S	Other digestive system O.R. procedures w MCC	Include all	2	0.9960
357	S	Other digestive system O.R. procedures w CC	Include all	2	0.9799
358	S	Other digestive system O.R. procedures w/o CC/MCC	Include all	3	0.9274
368	M	Major esophageal disorders w MCC	Include all	1	1.0174
369	M	Major esophageal disorders w CC	Include all	2	0.9894
370	M	Major esophageal disorders w/o CC/MCC	Include all	2	1.0085
371	М	Major gastrointestinal disorders & peritoneal infections w MCC	Include all	1	0.9933
372	M	Major gastrointestinal disorders & peritoneal infections w CC	Include all	2	0.9855
373	M	Major gastrointestinal disorders & peritoneal infections w/o CC/MCC	Include all	2	0.9860
374	М	Digestive malignancy w MCC	Include all	1	1.0467

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
375	М	Digestive malignancy w CC	Include all	2	1.0327
376	М	Digestive malignancy w/o CC/MCC	Include all	2	1.0607
377	М	G.I. hemorrhage w MCC	Include all	1	0.9929
378	М	G.I. hemorrhage w CC	Include all	2	0.9905
379	М	G.I. hemorrhage w/o CC/MCC	Include all	2	0.9927
380	М	Complicated peptic ulcer w MCC	Include all	1	1.0183
381	М	Complicated peptic ulcer w CC	Include all	2	1.0041
382	М	Complicated peptic ulcer w/o CC/MCC	Include all	2	1.0006
383	M	Uncomplicated peptic ulcer w MCC	Include all	3	1.0210
384	М	Uncomplicated peptic ulcer w/o MCC	Include all	3	1.0073
385	М	Inflammatory bowel disease w MCC	Include all	1	0.9971
386	М	Inflammatory bowel disease w CC	Include all	2	0.9897
387	М	Inflammatory bowel disease w/o CC/MCC	Include all	2	0.9873
388	М	G.I. obstruction w MCC	Include all	3	0.9978
389	М	G.I. obstruction w CC	Include all	3	0.9859
390	М	G.I. obstruction w/o CC/MCC	Include all	3	0.9527
391	М	Esophagitis, gastroent & misc digest disorders w MCC	Include all	3	0.9901
392	М	Esophagitis, gastroent & misc digest disorders w/o MCC	Include all	3	0.9857
393	М	Other digestive system diagnoses w MCC	Include all	1	0.9994
394	М	Other digestive system diagnoses w CC	Include all	2	0.9947
395	М	Other digestive system diagnoses w/o CC/MCC	Include all	2	1.0068
405	S	Pancreas, liver & shunt procedures w MCC	Include all	1	1.0169
406	S	Pancreas, liver & shunt procedures w CC	Include all	1	0.9934
407	S	Pancreas, liver & shunt procedures w/o CC/MCC	Include all	2	0.9871
408	S	Biliary tract proc except only cholecyst w or w/o c.d.e. w MCC	Include all	2	0.9898
409	S	Biliary tract proc except only cholecyst w or w/o c.d.e. w CC	Include all	2	0.9829
410	S	Biliary tract proc except only cholecyst w or w/o c.d.e. w/o CC/MCC	Include all	3	0.9274
411	S	Cholecystectomy w c.d.e. w MCC	Include all	1	1.0463
412	S	Cholecystectomy w c.d.e. w CC	Include all	2	0.9884
413	S	Cholecystectomy w c.d.e. w/o CC/MCC	Include all	2	0.9716
414	S	Cholecystectomy except by laparoscope w/o c.d.e. w MCC	Include all	1	1.0131
415	S	Cholecystectomy except by laparoscope w/o c.d.e. w CC	Include all	2	0.9946
416	S	Cholecystectomy except by laparoscope w/o c.d.e. w/o CC/MCC	Include all	2	0.9809
417	S	Laparoscopic cholecystectomy w/o c.d.e. w MCC	Include all	3	1.0214
418	S	Laparoscopic cholecystectomy w/o c.d.e. w CC	Include all	3	1.0165
419	S	Laparoscopic cholecystectomy w/o c.d.e. w/o CC/MCC	Include all	3	1.0670
420	S	Hepatobiliary diagnostic procedures w MCC	Include all	1	1.0040
421	S	Hepatobiliary diagnostic procedures w CC	Include all	2	0.9905
422	S	Hepatobiliary diagnostic procedures w oc CC/MCC	Include all	2	1.0434
423	S	Other hepatobiliary or pancreas O.R. procedures w MCC	Include all	3	1.0042
424	S	Other hepatobiliary or pancreas O.R. procedures w MCC Other hepatobiliary or pancreas O.R. procedures w CC	Include all	3	1.1163
425	S	Other hepatobiliary or pancreas O.R. procedures w CC Other hepatobiliary or pancreas O.R. procedures w/o CC/MCC	Include all	3	1.0000
432	M	Cirrhosis & alcoholic hepatitis w MCC	Include all	1	1.0307
433	M	Cirrhosis & alcoholic hepatitis w MCC Cirrhosis & alcoholic hepatitis w CC	Include all	2	1.0307
434	M	Cirrhosis & alcoholic hepatitis w/o CC/MCC	Include all	2	1.1270
434	M	Malignancy of hepatobiliary system or pancreas w MCC	Include all	1	1.0396
436	M	Malignancy of hepatobiliary system or pancreas w MCC Malignancy of hepatobiliary system or pancreas w CC	Include all	2	1.0398
436	M M		Include all	2	1.0856
437		Malignancy of hepatobiliary system or pancreas w/o CC/MCC		1	0.9922
	M	Disorders of pancreas except malignancy w MCC	Include all	2	1.0052
439	M	Disorders of pancreas except malignancy w CC	Include all	2	
440	M	Disorders of pancreas except malignancy w/o CC/MCC	Include all	2	1.0033
441	М	Disorders of liver except malig,cirr,alc hepa w MCC	Include all	1	1.0076

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
442	М	Disorders of liver except malig,cirr,alc hepa w CC	Include all	2	1.0227
443	М	Disorders of liver except malig,cirr,alc hepa w/o CC/MCC	Include all	2	1.0122
444	М	Disorders of the biliary tract w MCC	Include all	3	1.0084
445	М	Disorders of the biliary tract w CC	Include all	3	0.9981
446	М	Disorders of the biliary tract w/o CC/MCC	Include all	3	0.9638
453	S	Combined anterior/posterior spinal fusion w MCC	Include all	1	1.0322
454	S	Combined anterior/posterior spinal fusion w CC	Include all	2	0.9991
455	S	Combined anterior/posterior spinal fusion w/o CC/MCC	Include all	2	0.9692
456	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w MCC	Include all	1	1.0326
457	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w CC	Include all	2	0.9996
458	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w/o CC/MCC	Include all	2	0.9762
459	S	Spinal fusion except cervical w MCC	Include all	1	1.0027
460	S	Spinal fusion except cervical w/o MCC	Include all	2	0.9991
461	S	Bilateral or multiple major joint procs of lower extremity w MCC	Include all	1	0.9949
462	S	Bilateral or multiple major joint procs of lower extremity w/o MCC	Include all	2	0.9993
463	S	Wnd debrid & skn grft exc hand, for musculo-conn tiss dis w MCC	Include all	1	1.0147
464	S	Wnd debrid & skn grft exc hand, for musculo-conn tiss dis w CC	Include all	2	1.0119
		Wnd debrid & skn grft exc hand, for musculo-conn tiss dis w/o			1.0117
465	S	CC/MCC	Include all	2	
466	S	Revision of hip or knee replacement w MCC	Include all	3	0.9845
467	S	Revision of hip or knee replacement w CC	Include all	3	0.9917
468	S	Revision of hip or knee replacement w/o CC/MCC	Include all	3	0.9963
469	S	Major joint replacement or reattachment of lower extremity w MCC	Include all	1	0.9921
470	S	Major joint replacement or reattachment of lower extremity w/o MCC	Include all	2	0.9980
471	S	Cervical spinal fusion w MCC	Include all	1	1.0136
472	S	Cervical spinal fusion w CC	Include all	2	1.0109
473	S	Cervical spinal fusion w/o CC/MCC	Include all	2	1.0227
474	S	Amputation for musculoskeletal sys & conn tissue dis w MCC	Include all	1	0.9931
475	S	Amputation for musculoskeletal sys & conn tissue dis w CC	Include all	2	1.0263
476	S	Amputation for musculoskeletal sys & conn tissue dis w/o CC/MCC	Include all	2	0.9988
477	S	Biopsies of musculoskeletal system & connective tissue w MCC	Include all	3	0.9937
478	S	Biopsies of musculoskeletal system & connective tissue w CC	Include all	3	0.9872
479	S	Biopsies of musculoskeletal system & connective tissue w/o CC/MCC	Include all	3	1.0300
480	S	Hip & femur procedures except major joint w MCC	Include all	2	0.9941
481	S	Hip & femur procedures except major joint w CC	Include all	2	0.9919
482	S	Hip & femur procedures except major joint w/o CC/MCC	Include all	3	0.9667
483	S	Major joint & limb reattachment proc of upper extremity w CC/MCC	Include all	1	1.0003
485	S	Knee procedures w pdx of infection w MCC	Include all	1	1.0096
486	S	Knee procedures w pdx of infection w CC	Include all	2	0.9782
487	S	Knee procedures w pdx of infection w/o CC/MCC	Include all	2	0.9999
488	S	Knee procedures w/o pdx of infection w CC/MCC	Include all	3	1.1099
489	S	Knee procedures w/o pdx of infection w/o CC/MCC	Include all	3	0.9274
492	S	Lower extrem & humer proc except hip,foot,femur w MCC	Include all	2	1.0205
493	S	Lower extrem & humer proc except hip,foot,femur w CC	Include all	2	1.0163
494	S	Lower extrem & humer proc except hip,foot,femur w/o CC/MCC	Include all	3	1.0701
495	S	Local excision & removal int fix devices exc hip & femur w MCC	Include all	2	1.0004
496	S	Local excision & removal int fix devices exc hip & femur w CC	Include all	2	0.9947
497	S	Local excision & removal int fix devices exc hip & femur w/o CC/MCC	Include all	3	0.9274
498	S	Local excision & removal int fix devices of hip & femur w CC/MCC	Include all	3	0.9626
499	S	Local excision & removal int fix devices of hip & femur w/o CC/MCC	Include all	3	0.9274

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
500	S	Soft tissue procedures w MCC	Include all	3	0.9877
501	S	Soft tissue procedures w CC	Include all	3	1.0044
502	S	Soft tissue procedures w/o CC/MCC	Include all	3	0.9274
503	S	Foot procedures w MCC	Include all	3	1.0053
504	S	Foot procedures w CC	Include all	3	1.0132
505	S	Foot procedures w/o CC/MCC	Include all	3	1.1041
506	S	Major thumb or joint procedures	Include all	3	1.1270
507	S	Major shoulder or elbow joint procedures w CC/MCC	Include all	2	0.9724
508	S	Major shoulder or elbow joint procedures w/o CC/MCC	Include all	2	1.0599
509	S	Arthroscopy	Include all	3	0.9274
510	S	Shoulder,elbow or forearm proc,exc major joint proc w MCC	Include all	1	0.9836
511	S	Shoulder,elbow or forearm proc,exc major joint proc w CC	Include all	2	1.0342
512	S	Shoulder,elbow or forearm proc,exc major joint proc w/o CC/MCC	Include all	2	1.0280
513	S	Hand or wrist proc, except major thumb or joint proc w CC/MCC	Include all	3	1.0176
514	S	Hand or wrist proc, except major thumb or joint proc w/o CC/MCC	Include all	3	0.9274
515	S	Other musculoskelet sys & conn tiss O.R. proc w MCC	Include all	3	0.9861
516	S	Other musculoskelet sys & conn tiss O.R. proc w CC	Include all	3	0.9901
517	S	Other musculoskelet sys & conn tiss O.R. proc w/o CC/MCC	Include all	3	0.9904
017		Back & Neck Procedures Except Spinal Fusion with MCC or Disc	inolado dil		
518	S	Device/Neurostimulator	Include all	1	0.9930
519	S	Back & Neck Procedures Except Spinal Fusion with CC	Include all	2	1.0051
520	S	Back & Neck Procedures Except Spinal Fusion without CC/MCC	Include all	3	0.9274
533	М	Fractures of femur w MCC	Include all	1	1.0039
534	М	Fractures of femur w/o MCC	Include all	2	0.9855
535	М	Fractures of hip & pelvis w MCC	Include all	1	0.9906
536	М	Fractures of hip & pelvis w/o MCC	Include all	2	0.9963
537	М	Sprains, strains, & dislocations of hip, pelvis & thigh w CC/MCC	Include all	3	0.9864
538	М	Sprains, strains, & dislocations of hip, pelvis & thigh w/o CC/MCC	Include all	3	0.9274
539	М	Osteomyelitis w MCC	Include all	3	1.0434
540	М	Osteomyelitis w CC	Include all	3	0.9961
541	М	Osteomyelitis w/o CC/MCC	Include all	3	0.9274
542	M	Pathological fractures & musculoskelet & conn tiss malig w MCC	Include all	1	1.0118
543	M	Pathological fractures & musculoskelet & conn tiss malig w CC	Include all	2	0.9927
010	141	Pathological fractures & musculoskelet & conn tiss malig w/o	moiddo dii		
544	М	CC/MCC	Include all	2	1.0093
545	М	Connective tissue disorders w MCC	Include all	3	0.9817
546	М	Connective tissue disorders w CC	Include all	3	0.9915
547	М	Connective tissue disorders w/o CC/MCC	Include all	3	1.0960
548	М	Septic arthritis w MCC	Include all	1	0.9873
549	М	Septic arthritis w CC	Include all	2	0.9922
550	М	Septic arthritis w/o CC/MCC	Include all	2	1.0006
551	М	Medical back problems w MCC	Include all	3	0.9972
552	М	Medical back problems w/o MCC	Include all	3	1.0067
553	M	Bone diseases & arthropathies w MCC	Include all	2	1.0072
554	M	Bone diseases & arthropathies w/o MCC	Include all	3	0.9751
555	M	Signs & symptoms of musculoskeletal system & conn tissue w MCC	Include all	3	0.9861
000	IVI	Signs & symptoms of musculoskeletal system & conn tissue w/o	moidde dii		
556	М	MCC	Include all	3	0.9799
557	М	Tendonitis, myositis & bursitis w MCC	Include all	3	0.9954
558	М	Tendonitis, myositis & bursitis w/o MCC	Include all	3	0.9988
559	M	Aftercare, musculoskeletal system & connective tissue w MCC	Include all	3	0.9847
560	М	Aftercare, musculoskeletal system & connective tissue w CC	Include all	3	0.9830

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
561	М	Aftercare, musculoskeletal system & connective tissue w/o CC/MCC	Include all	3	0.9274
562	M	Fx, sprn, strn & disl except femur, hip, pelvis & thigh w MCC	Include all	3	0.9956
563	M	Fx, sprn, strn & disl except femur, hip, pelvis & thigh w/o MCC	Include all	3	0.9932
564	M	Other musculoskeletal sys & connective tissue diagnoses w MCC	Include all	3	1.0000
565	M	Other musculoskeletal sys & connective tissue diagnoses w CC	Include all	3	1.0008
566	M	Other musculoskeletal sys & connective tissue diagnoses w/o CC/MCC	Include all	3	1.1270
570	S	Skin debridement with MCC	Include all	1	0.9852
571	S	Skin debridement with CC	Include all	2	0.9978
572	S	Skin debridement without CC/MCC	Include all	2	0.9840
573	S	Skin graft for skin ulcer or cellulitis w MCC	Include all	1	0.9979
574	S	Skin graft for skin ulcer or cellulitis w CC	Include all	2	1.0107
575	S	Skin graft for skin ulcer or cellulitis w/o CC/MCC	Include all	2	0.9500
576	S	Skin graft except for skin ulcer or cellulitis w MCC	Include all	1	0.9996
577	S	Skin graft except for skin ulcer or cellulitis w CC	Include all	2	0.9925
578	S	Skin graft except for skin ulcer or cellulitis w/o CC/MCC	Include all	2	1.0093
579	S	Other skin, subcut tiss & breast proc w MCC	Include all	2	1.0117
580	S	Other skin, subcut tiss & breast proc w CC	Include all	2	1.0056
581	S	Other skin, subcut tiss & breast proc w/o CC/MCC	Include all	3	0.9274
582	S	Mastectomy for malignancy w CC/MCC	Include all	2	0.9988
583	S	Mastectomy for malignancy w/o CC/MCC	Include all	2	0.9738
584	S	Breast biopsy, local excision & other breast procedures w CC/MCC	Include all	2	0.9842
585	S	Breast biopsy, local excision & other breast procedures w/o CC/MCC	Include all	3	1.0000
592	М	Skin ulcers w MCC	Include all	1	1.0021
593	М	Skin ulcers w CC	Include all	2	1.0257
594	М	Skin ulcers w/o CC/MCC	Include all	2	1.0129
595	М	Major skin disorders w MCC	Include all	1	1.0187
596	М	Major skin disorders w/o MCC	Include all	2	0.9915
597	М	Malignant breast disorders w MCC	Include all	1	1.0622
598	М	Malignant breast disorders w CC	Include all	2	1.0427
599	М	Malignant breast disorders w/o CC/MCC	Include all	2	1.1270
600	М	Non-malignant breast disorders w CC/MCC	Include all	3	0.9746
601	М	Non-malignant breast disorders w/o CC/MCC	Include all	3	0.9274
602	M	Cellulitis w MCC	Include all	1	0.9845
603	М	Cellulitis w/o MCC	Include all	2	0.9884
604	M	Trauma to the skin, subcut tiss & breast w MCC	Include all	1	1.0108
605	M	Trauma to the skin, subcut tiss & breast w/o MCC	Include all	2	1.0191
606	M	Minor skin disorders w MCC	Include all	3	0.9985
607	M	Minor skin disorders w/o MCC	Include all	3	1.0077
614	S	Adrenal & pituitary procedures w CC/MCC	Include all	2	1.0208
615	S	Adrenal & pituitary procedures w/o CC/MCC	Include all	2	1.0144
616	S	Amputat of lower limb for endocrine, nutrit, & metabol dis w MCC	Include all	1	1.0132
617	S	Amputat of lower limb for endocrine, nutrit, & metabol dis w CC	Include all	2	1.0065
618	S	Amputat of lower limb for endocrine,nutrit,& metabol dis w/o CC/MCC	Include all	2	1.1270
619	S	O.R. procedures for obesity w MCC	Include all	1	1.0047
620	S	O.R. procedures for obesity w CC	Include all	2	0.9776
621	S	O.R. procedures for obesity w/o CC/MCC	Include all	2	1.0820
622	S	Skin grafts & wound debrid for endoc, nutrit & metab dis w MCC	Include all	1	0.9882
623	S	Skin grafts & wound debrid for endoc, nutrit & metab dis w CC	Include all	2	1.0222
624	S	Skin grafts & wound debrid for endoc, nutrit & metab dis w/o CC/MCC	Include all	2	0.9738

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
625	S	Thyroid, parathyroid & thyroglossal procedures w MCC	Include all	1	1.0408
626	S	Thyroid, parathyroid & thyroglossal procedures w CC	Include all	2	1.0403
627	S	Thyroid, parathyroid & thyroglossal procedures w/o CC/MCC	Include all	2	1.0095
628	S	Other endocrine, nutrit & metab O.R. proc w MCC	Include all	1	1.0217
629	S	Other endocrine, nutrit & metab O.R. proc w CC	Include all	2	0.9952
630	S	Other endocrine, nutrit & metab O.R. proc w/o CC/MCC	Include all	2	1.1058
637	М	Diabetes w MCC	Include all	3	1.0106
638	М	Diabetes w CC	Include all	3	1.0096
639	M	Diabetes w/o CC/MCC	Include all	3	0.9915
640	М	Misc disorders of nutrition, metabolism, fluids/electrolyes w MCC	Include all	3	1.0041
641	М	Misc disorders of nutrition, metabolism, fluids/electrolyes w/o MCC	Include all	3	0.9990
642	М	Inborn and other disorders of metabolism	Include all	3	0.9974
643	М	Endocrine disorders w MCC	Include all	3	0.9933
644	М	Endocrine disorders w CC	Include all	3	1.0028
645	М	Endocrine disorders w/o CC/MCC	Include all	3	0.9624
652	S	Kidney transplant	Include all	1	1.1089
653	S	Major bladder procedures w MCC	Include all	1	1.0047
654	S	Major bladder procedures w CC	Include all	2	0.9912
655	S	Major bladder procedures w/o CC/MCC	Include all	2	1.0035
656	S	Kidney & ureter procedures for neoplasm w MCC	Include all	1	0.9988
657	S	Kidney & ureter procedures for neoplasm w CC	Include all	2	0.9947
658	S	Kidney & ureter procedures for neoplasm w/o CC/MCC	Include all	2	1.0074
659	S	Kidney & ureter procedures for non-neoplasm w MCC	Include all	2	0.9824
660	S	Kidney & ureter procedures for non-neoplasm w CC	Include all	2	1.0060
661	S	Kidney & ureter procedures for non-neoplasm w/o CC/MCC	Include all	3	1.0930
662	S	Minor bladder procedures w MCC	Include all	3	0.9817
663	S	Minor bladder procedures w CC	Include all	3	0.9903
664	S	Minor bladder procedures w/o CC/MCC	Include all	3	0.9274
665	S	Prostatectomy w MCC	Include all	3	1.0083
666	S	Prostatectomy w CC	Include all	3	1.0030
667	S	Prostatectomy w/o CC/MCC	Include all	3	1.0202
668	S	Transurethral procedures w MCC	Include all	3	0.9878
669	S	Transurethral procedures w CC	Include all	3	0.9830
670	S	Transurethral procedures w/o CC/MCC	Include all	3	0.9820
671	S	Urethral procedures w CC/MCC	Include all	3	0.9640
672	S	Urethral procedures w/o CC/MCC	Include all	3	0.9274
673	S	Other kidney & urinary tract procedures w MCC	Include all	3	0.9969
674	S	Other kidney & urinary tract procedures w Micc	Include all	3	0.9876
675	S	Other kidney & urinary tract procedures w/o CC/MCC	Include all	3	0.9274
682	M	Renal failure w MCC	Include all	1	0.9977
683	M	Renal failure w CC	Include all	2	0.9937
684	M	Renal failure w/o CC/MCC	Include all	2	1.0066
685	M	Admit for renal dialysis	Include all	3	1.0820
686	M	,	Include all	2	1.1005
687	M	Kidney & urinary tract neoplasms w MCC Kidney & urinary tract neoplasms w CC	Include all	2	1.0445
688	M	· · · · · · · · · · · · · · · · · · ·	Include all	3	1.1270
689	M	Kidney & urinary tract neoplasms w/o CC/MCC Kidney & urinary tract infections w MCC		3	0.9842
690	M M	Kidney & urinary tract infections w MCC Kidney & urinary tract infections w/o MCC	Include all	3	0.9842
691		·		3	0.9802
	M	Urinary stones w esw lithotripsy w CC/MCC	Include all	3	1.0000
692	M	Urinary stones w esw lithotripsy w/o CC/MCC	Include all		0.9725
693	M	Urinary stones w/o esw lithotripsy w MCC	Include all	3	
694	М	Urinary stones w/o esw lithotripsy w/o MCC	Include all	3	0.9876

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
695	M	Kidney & urinary tract signs & symptoms w MCC	Include all	3	1.0099
696	М	Kidney & urinary tract signs & symptoms w/o MCC	Include all	3	1.0055
697	М	Urethral stricture	Include all	3	0.9750
698	М	Other kidney & urinary tract diagnoses w MCC	Include all	3	0.9879
699	М	Other kidney & urinary tract diagnoses w CC	Include all	3	0.9886
700	М	Other kidney & urinary tract diagnoses w/o CC/MCC	Include all	3	0.9941
707	S	Major male pelvic procedures w CC/MCC	Include all	2	1.0332
708	S	Major male pelvic procedures w/o CC/MCC	Include all	2	1.0529
709	S	Penis procedures w CC/MCC	Include all	3	1.1184
710	S	Penis procedures w/o CC/MCC	Include all	3	1.0000
711	S	Testes procedures w CC/MCC	Include all	2	1.0877
712	S	Testes procedures w/o CC/MCC	Include all	3	1.0000
713	S	Transurethral prostatectomy w CC/MCC	Include all	2	1.0079
714	S	Transurethral prostatectomy w/o CC/MCC	Include all	3	1.0599
715	S	Other male reproductive system O.R. proc for malignancy w CC/MCC	Include all	2	1.0211
716	S	Other male reproductive system O.R. proc for malignancy w/o CC/MCC	Include all	2	1.0117
717	S	Other male reproductive system O.R. proc exc malignancy w CC/MCC	Include all	3	0.9970
718	S	Other male reproductive system O.R. proc exc malignancy w/o CC/MCC	Include all	3	1.0000
722	М	Malignancy, male reproductive system w MCC	Include all	1	1.0905
723	М	Malignancy, male reproductive system w CC	Include all	2	1.0916
724	M	Malignancy, male reproductive system w/o CC/MCC	Include all	2	1.1270
725	M	Benign prostatic hypertrophy w MCC	Include all	3	1.0101
726	M	Benign prostatic hypertrophy w/o MCC	Include all	3	1.0254
727	М	Inflammation of the male reproductive system w MCC	Include all	3	0.9754
728	М	Inflammation of the male reproductive system w/o MCC	Include all	3	1.0092
729	М	Other male reproductive system diagnoses w CC/MCC	Include all	3	1.0058
730	М	Other male reproductive system diagnoses w/o CC/MCC	Include all	3	0.9274
734	S	Pelvic evisceration, rad hysterectomy & rad vulvectomy w CC/MCC	Include all	1	0.9844
735	S	Pelvic evisceration, rad hysterectomy & rad vulvectomy w/o CC/MCC	Include all	1	0.9787
736	S	Uterine & adnexa proc for ovarian or adnexal malignancy w MCC	Include all	1	0.9653
737	S	Uterine & adnexa proc for ovarian or adnexal malignancy w CC	Include all	2	0.9776
738	S	Uterine & adnexa proc for ovarian or adnexal malignancy w/o CC/MCC	Include all	2	0.9820
739	S	Uterine,adnexa proc for non-ovarian/adnexal malig w MCC	Include all	1	0.9762
740	S	Uterine,adnexa proc for non-ovarian/adnexal malig w CC	Include all	2	1.0090
741	S	Uterine,adnexa proc for non-ovarian/adnexal malig w/o CC/MCC	Include all	2	1.0043
742	S	Uterine & adnexa proc for non-malignancy w CC/MCC	Include all	2	1.0043
743	S	Uterine & adnexa proc for non-malignancy w/o CC/MCC	Include all	3	1.1270
744	S	D&C, conization, laparoscopy & tubal interruption w CC/MCC	Include all	2	0.9904
745	S	D&C, conization, laparoscopy & tubal interruption w/o CC/MCC	Include all	3	0.9274
746	S	Vagina, cervix & vulva procedures w CC/MCC	Include all	3	0.9621
747	S	Vagina, cervix & vulva procedures w/o CC/MCC	Include all	3	0.9274
748	S	Female reproductive system reconstructive procedures	Include all	3	0.9820
749	S	Other female reproductive system O.R. procedures w CC/MCC	Include all	2	0.9896
750	S	Other female reproductive system O.R. procedures w/o CC/MCC	Include all	2	0.9274
754	М	Malignancy, female reproductive system w MCC	Include all	1	1.0733
755	М	Malignancy, female reproductive system w CC	Include all	2	1.0551
756	М	Malignancy, female reproductive system w/o CC/MCC	Include all	2	1.0365

1757	MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
Total	757	М	Infections, female reproductive system w MCC	Include all	3	0.9866
Tell	758	М	Infections, female reproductive system w CC	Include all	3	0.9681
Menstrual & Other female reproductive system disorders w/o Include all 3 0.9274	759	M	Infections, female reproductive system w/o CC/MCC	Include all	3	0.9988
769	760	М	Menstrual & other female reproductive system disorders w CC/MCC	Include all	3	0.9876
800 S	761	M		Include all	3	0.9274
801 S	799	S	Splenectomy w MCC	Include all	1	0.9937
802 S	800	S	Splenectomy w CC	Include all	2	0.9873
803 S	801	S	Splenectomy w/o CC/MCC	Include all	2	0.9274
804 S	802	S	Other O.R. proc of the blood & blood forming organs w MCC	Include all	3	1.0053
808 M Major hematol/immun diag exc sickle cell crisis & coagul w MCC Include all 1 0.9856	803	S	Other O.R. proc of the blood & blood forming organs w CC	Include all	3	0.9950
809 M Major hematol/immun diag exc sickle cell crisis & coagul w CC Include all 2 1.0036	804	S	Other O.R. proc of the blood & blood forming organs w/o CC/MCC	Include all	3	1.1270
Major hematol/immun diag exc sickle cell crisis & coagul w/o	808	М	Major hematol/immun diag exc sickle cell crisis & coagul w MCC	Include all	1	0.9856
810 M CCMCC Include all 2 1.0003 811 M Red blood cell disorders w MCC Include all 3 1.0001 813 M Red blood cell disorders w MCC Include all 2 1.0040 814 M Reticuloendothelial & immunity disorders w MCC Include all 1 0.9859 815 M Reticuloendothelial & immunity disorders w CC Include all 2 1.0391 816 M Reticuloendothelial & immunity disorders w CC Include all 2 1.0391 817 M Reticuloendothelial & immunity disorders w CC/MCC Include all 2 0.9741 820 S Lymphoma & leukemia w major O.R. procedure w MCC Include all 1 0.9782 821 S Lymphoma & leukemia w major O.R. procedure w CC/MCC Include all 2 0.9996 822 S Lymphoma & non-acute leukemia w other O.R. proc w CC Include all 1 1.0170 824 S Lymphoma & non-acute leukemia w other O.R. proc w CC Include all	809	М	Major hematol/immun diag exc sickle cell crisis & coagul w CC	Include all	2	1.0016
812 M Red blood cell disorders w/o MCC Include all 3 1.0026 813 M Coagulation disorders Include all 2 1.0040 814 M Reticuloendothelial & immunity disorders w MCC Include all 1 0.9859 815 M Reticuloendothelial & immunity disorders w CC Include all 2 1.0391 816 M Reticuloendothelial & immunity disorders w/o CC/MCC Include all 2 0.9741 820 S Lymphoma & leukemia w major O.R. procedure w MCC Include all 2 0.9741 820 S Lymphoma & leukemia w major O.R. procedure w MCC Include all 2 0.9962 822 S Lymphoma & non-acute leukemia w other O.R. proc w MCC Include all 1 1.0170 824 S Lymphoma & non-acute leukemia w other O.R. proc w CC Include all 2 0.9962 825 S Lymphoma & non-acute leukemia w other O.R. proc w MCC Include all 2 0.9901 826 S Myeloprolif disord or poorly diff neopl w ma	810	М		Include all	2	1.0035
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MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
854	S	Infectious & parasitic diseases w O.R. procedure w CC	Include all	2	0.9997
855	S	Infectious & parasitic diseases w O.R. procedure w/o CC/MCC	Include all	2	0.9569
856	S	Postoperative or post-traumatic infections w O.R. proc w MCC	Include all	1	1.0031
857	S	Postoperative or post-traumatic infections w O.R. proc w CC	Include all	2	0.9955
858	S	Postoperative or post-traumatic infections w O.R. proc w/o CC/MCC	Include all	2	0.9898
862	М	Postoperative & post-traumatic infections w MCC	Include all	1	0.9851
863	М	Postoperative & post-traumatic infections w/o MCC	Include all	2	0.9968
864	М	Fever of unknown origin	Include all	2	0.9888
865	М	Fever	Include all	1	0.9877
866	М	Viral illness w/o MCC	Include all	2	0.9950
867	М	Other infectious & parasitic diseases diagnoses w MCC	Include all	1	1.0046
868	М	Other infectious & parasitic diseases diagnoses w CC	Include all	2	1.0065
869	М	Other infectious & parasitic diseases diagnoses w/o CC/MCC	Include all	2	1.0599
870	М	Septicemia or severe sepsis w MV 96+ hours	Include all	1	1.0072
871	М	Septicemia or severe sepsis w/o MV 96+ hours w MCC	Include all	1	1.0020
872	М	Septicemia or severe sepsis w/o MV 96+ hours w/o MCC	Include all	1	1.0039
876	S	O.R. procedure w principal diagnoses of mental illness	Include all	3	0.9937
880	М	Acute adjustment reaction & psychosocial dysfunction	Include all	3	1.0150
881	M	Depressive neuroses	Include all	3	1.0195
882	М	Neuroses except depressive	Include all	3	0.9893
883	М	Disorders of personality & impulse control	Include all	3	0.9274
884	М	Organic disturbances & mental retardation	Include all	3	1.0081
885	M	Psychoses	Include all	3	1.0167
886	M	Behavioral & developmental disorders	Include all	3	1.0599
887	M	Other mental disorder diagnoses	Include all	3	0.9820
894	M	Alcohol/drug abuse or dependence, left ama	Include all	3	1.1270
895	M	Alcohol/drug abuse or dependence w rehabilitation therapy	Include all	3	1.1270
896	M	Alcohol/drug abuse or dependence w/o rehabilitation therapy w MCC	Include all	3	1.0135
897	M	Alcohol/drug abuse or dependence w/o rehabilitation therapy w/o MCC	Include all	3	1.0010
901	S	Wound debridements for injuries w MCC	Include all	1	1.0505
902	S	Wound debridements for injuries w CC	Include all	2	1.0072
903	S	Wound debridements for injuries w/o CC/MCC	Include all	2	0.9789
904	S	Skin grafts for injuries w CC/MCC	Include all	2	1.0096
905	S	Skin grafts for injuries w/o CC/MCC	Include all	2	1.0711
906	S	Hand procedures for injuries	Include all	3	1.0511
907	S	Other O.R. procedures for injuries w MCC	Include all	1	1.0027
908	S	Other O.R. procedures for injuries w CC	Include all	2	0.9952
909	S	Other O.R. procedures for injuries w/o CC/MCC	Include all	2	1.0045
913	М	Traumatic injury w MCC	Include all	1	0.9985
914	М	Traumatic injury w/o MCC	Include all	2	1.0078
915	М	Allergic reactions w MCC	Include all	3	1.0151
916	М	Allergic reactions w/o MCC	Include all	3	1.0166
917	М	Poisoning & toxic effects of drugs w MCC	Include all	2	1.0072
918	М	Poisoning & toxic effects of drugs w/o MCC	Include all	3	0.9822
919	М	Complications of treatment w MCC	Include all	3	1.0024
920	М	Complications of treatment w CC	Include all	3	0.9830
921	М	Complications of treatment w/o CC/MCC	Include all	3	0.9274
922	М	Other injury, poisoning & toxic effect diag w MCC	Include all	3	1.0139
923	М	Other injury, poisoning & toxic effect diag w/o MCC	Include all	3	0.9959
927	S	Extensive burns or full thickness burns w MV 96+ hrs w skin graft	Include all	1	1.0305

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severit y	Weight
928	S	Full thickness burn w skin graft or inhal inj w CC/MCC	Include all	1	0.9888
929	S	Full thickness burn w skin graft or inhal inj w/o CC/MCC	Include all	2	1.0387
933	М	Extensive burns or full thickness burns w MV 96+ hrs w/o skin graft	Include all	1	1.1270
934	М	Full thickness burn w/o skin grft or inhal inj	Include all	2	0.9744
935	М	Non-extensive burns	Include all	2	1.0578
939	S	O.R. proc w diagnoses of other contact w health services w MCC	Include all	3	0.9797
940	S	O.R. proc w diagnoses of other contact w health services w CC	Include all	3	1.0328
941	S	O.R. proc w diagnoses of other contact w health services w/o CC/MCC	Include all	3	0.9274
945	М	Rehabilitation w CC/MCC	Include all	3	0.9825
946	М	Rehabilitation w/o CC/MCC	Include all	3	0.9783
947	М	Signs & symptoms w MCC	Include all	3	0.9988
948	М	Signs & symptoms w/o MCC	Include all	3	0.9947
949	М	Aftercare w CC/MCC	Include all	3	0.9649
950	М	Aftercare w/o CC/MCC	Include all	3	0.9274
951	М	Other factors influencing health status	Include all	3	1.1270
955	S	Craniotomy for multiple significant trauma	Include all	1	1.1270
956	S	Limb reattachment, hip & femur proc for multiple significant trauma	Include all	1	1.0333
957	S	Other O.R. procedures for multiple significant trauma w MCC	Include all	1	1.1270
958	S	Other O.R. procedures for multiple significant trauma w CC	Include all	2	1.1270
959	S	Other O.R. procedures for multiple significant trauma w/o CC/MCC	Include all	2	1.1270
963	М	Other multiple significant trauma w MCC	Include all	1	1.1270
964	М	Other multiple significant trauma w CC	Include all	2	1.1270
965	М	Other multiple significant trauma w/o CC/MCC	Include all	2	1.1062
969	S	HIV w extensive O.R. procedure w MCC	Include all	1	0.9274
970	S	HIV w extensive O.R. procedure w/o MCC	Include all	1	1.0000
974	М	HIV w major related condition w MCC	Include all	1	0.9996
975	М	HIV w major related condition w CC	Include all	1	1.0820
976	М	HIV w major related condition w/o CC/MCC	Include all	1	1.1270
977	М	HIV w or w/o other related condition	Include all	2	0.9820
981	S	Extensive O.R. procedure unrelated to principal diagnosis w MCC	Include all	1	1.0055
982	S	Extensive O.R. procedure unrelated to principal diagnosis w CC	Include all	2	0.9980
983	S	Extensive O.R. procedure unrelated to principal diagnosis w/o CC/MCC	Include all	2	1.0071
984	S	Prostatic O.R. procedure unrelated to principal diagnosis w MCC	Include all	3	0.9769
985	S	Prostatic O.R. procedure unrelated to principal diagnosis w CC	Include all	3	1.0336
986	S	Prostatic O.R. procedure unrelated to principal diagnosis w/o CC/MCC	Include all	3	0.9274
987	S	Non-extensive O.R. proc unrelated to principal diagnosis w MCC	Include all	3	0.9921
988	S	Non-extensive O.R. proc unrelated to principal diagnosis w CC	Include all	3	0.9966
989	S	Non-extensive O.R. proc unrelated to principal diagnosis w/o CC/MCC	Include all	3	0.9274

Gynecology

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
734	S	Pelvic evisceration, rad hysterectomy & rad vulvectomy w CC/MCC	Include all	1	0.7941
		Pelvic evisceration, rad hysterectomy & rad vulvectomy w/o			1.0225
735	S	CC/MCC	Include all	1	1.0223
736	S	Uterine & adnexa proc for ovarian or adnexal malignancy w MCC	Include all	1	0.5777
737	S	Uterine & adnexa proc for ovarian or adnexal malignancy w CC	Include all	2	0.7464

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
		Uterine & adnexa proc for ovarian or adnexal malignancy w/o			0.8520
738	S	CC/MCC	Include all	2	0.0320
739	S	Uterine,adnexa proc for non-ovarian/adnexal malig w MCC	Include all	1	0.5260
740	S	Uterine,adnexa proc for non-ovarian/adnexal malig w CC	Include all	2	0.7168
741	S	Uterine,adnexa proc for non-ovarian/adnexal malig w/o CC/MCC	Include all	2	0.7199
742	S	Uterine & adnexa proc for non-malignancy w CC/MCC	Include all	2	1.4199
743	S	Uterine & adnexa proc for non-malignancy w/o CC/MCC	Include all	3	0.9480
746	S	Vagina, cervix & vulva procedures w CC/MCC	Include all	3	0.5931
747	S	Vagina, cervix & vulva procedures w/o CC/MCC	Include all	3	0.7825
749	S	Other female reproductive system O.R. procedures w CC/MCC	Include all	2	0.9017
750	S	Other female reproductive system O.R. procedures w/o CC/MCC	Include all	2	1.4199
754	М	Malignancy, female reproductive system w MCC	Include all	1	0.5753
755	М	Malignancy, female reproductive system w CC	Include all	2	0.6050
756	М	Malignancy, female reproductive system w/o CC/MCC	Include all	2	0.6790
757	М	Infections, female reproductive system w MCC	Include all	3	0.4570
758	М	Infections, female reproductive system w CC	Include all	3	0.5110
759	М	Infections, female reproductive system w/o CC/MCC	Include all	3	0.3880
760	М	Menstrual & other female reproductive system disorders w CC/MCC	Include all	3	0.7836
		Menstrual & other female reproductive system disorders w/o			0.9186
761	М	CC/MCC	Include all	3	0.9100

Nephrology

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
800	S	Simultaneous pancreas/kidney transplant	Include all	1	1.1425
652	S	Kidney transplant	Include all	1	1.0245
653	S	Major bladder procedures w MCC	Include all	1	0.9835
654	S	Major bladder procedures w CC	Include all	2	1.1682
655	S	Major bladder procedures w/o CC/MCC	Include all	2	1.2304
656	S	Kidney & ureter procedures for neoplasm w MCC	Include procedures 3924, 550, 5501-4, 551, 5511-2, 5524, 5529, 553, 5531-5, 5539, 554, 555, 5551-4, 5561, 557, 558, 5581-7, 5589, 5591, 5597, 5598, 5599	1	1.0227
657	S	Kidney & ureter procedures for neoplasm w CC	See MS-DRG 656	2	1.2947
658	S	Kidney & ureter procedures for neoplasm w/o CC/MCC	See MS-DRG 656	2	1.3951
659	S	Kidney & ureter procedures for non-neoplasm w MCC	See MS-DRG 656	2	1.0991
660	S	Kidney & ureter procedures for non-neoplasm w CC	See MS-DRG 656	2	1.5113
661	S	Kidney & ureter procedures for non-neoplasm w/o CC/MCC	See MS-DRG 656	3	1.5588
673	S	Other kidney & urinary tract procedures w MCC	Include procedures 3806-7, 3816, 3836-7, 3846- 7,3866-7, 387, 3886-7, 3927, 3942-3, 3949-50, 3952, 3956-9, 3971	3	1.0607
674	S	Other kidney & urinary tract procedures w CC	Include procedures 3807, 3816, 3836-	3	1.1921

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
			7, 3846-7,3866-7, 387, 3886-7, 3927, 3942-3, 3949-50, 3952, 3956-9, 3971		
675	S	Other kidney & urinary tract procedures w/o CC/MCC	See MS-DRG 674	3	0.8857
682	M	Renal failure w MCC	Include all	1	0.9177
683	M	Renal failure w CC	Include all	2	0.9787
684	М	Renal failure w/o CC/MCC	Include all	2	1.0570
686	M	Kidney & urinary tract neoplasms w MCC	Include diagnoses: 1890-1, 1980, 2230	2	1.1728
687	М	Kidney & urinary tract neoplasms w CC	See MS-DRG 686	2	1.2741
688	М	Kidney & urinary tract neoplasms w/o CC/MCC	See MS-DRG 686	3	1.6954
689	M	Kidney & urinary tract infections w MCC	Include diagnoses: 0160, 590, 0786, 0954, 5900-3, 5908-9, 59010-11, 59080-1	3	1.2067
695	М	Kidney & urinary tract signs & symptoms w MCC	Include all	3	0.8570
698	M	Other kidney & urinary tract diagnoses w MCC	Include diagnoses: 2504, 580-3, 587, 589, 866, 4401, 4421, 4473, 4533, 5800, 5804, 5808-13, 5818-22, 5824, 5828-32, 5834, 5836-9,5890-1, 5899, 5930-2, 5936, 8660, 86600-3, 8661, 86610-3, 27410, 27419, 44323, 44581, 58081, 58089, 58181, 58189, 58281, 58289, 58381, 58389, V420, V594	3	1.1258
698	M M	Other kidney & urinary tract diagnoses w MCC Other kidney & urinary tract diagnoses w CC	V594 See MS-DRG 698	3	1.3783
700	M	Other kidney & urinary tract diagnoses w CC Other kidney & urinary tract diagnoses w/o CC/MCC	See MS-DRG 698	3	1.6954

Neurology & Neurosurgery

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
020	S	Intracranial vascular procedures w PDX hemorrhage w MCC	Include all	1	1.9167
021	S	Intracranial vascular procedures w PDX hemorrhage w CC	Include all	1	3.1658
022	S	Intracranial vascular procedures w PDX hemorrhage w/o CC/MCC	Include all	1	3.1658
023	S	Cranio w major dev impl/acute complex CNS PDX w MCC or chemo implant	Include all	1	1.3274
024	S	Cranio w major dev impl/acute complex CNS PDX w/o MCC	Include all	1	1.2040
025	S	Craniotomy & endovascular intracranial procedures w MCC	Include all	1	1.4099
026	S	Craniotomy & endovascular intracranial procedures w CC	Include all	1	1.7664
027	S	Craniotomy & endovascular intracranial procedures w/o CC/MCC	Include all	1	1.9588

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
031	S	Ventricular shunt procedures w MCC	Include all	1	1.9995
032	S	Ventricular shunt procedures w CC	Include all	2	1.8588
033	S	Ventricular shunt procedures w/o CC/MCC	Include all	2	1.3455
034	S	Carotid artery stent procedure w MCC	Include all	1	0.8017
035	S	Carotid artery stent procedure w CC	Include all	2	0.8168
036	S	Carotid artery stent procedure w/o CC/MCC	Include all	2	0.8181
037	S	Extracranial procedures w MCC	Include all	1	0.7747
038	S	Extracranial procedures w CC	Include all	2	0.8203
039	S	Extracranial procedures w/o CC/MCC	Include all	2	0.8017
040	S	Periph & cranial nerve & other nerv syst proc w MCC	Include all	1	1.0629
		Periph/cranial nerve & other nerv syst proc w CC or periph			1.2118
041	S	neurostim	Include all	2	
042	S	Periph & cranial nerve & other nerv syst proc w/o CC/MCC	Include all	2	1.2832
052	М	Spinal disorders & injuries w CC/MCC	Include all	2	1.1133
053	M	Spinal disorders & injuries w/o CC/MCC	Include all	2	1.5151
054	M	Nervous system neoplasms w MCC	Include all	1	1.1452
055	M	Nervous system neoplasms w/o MCC	Include all	2	1.2760
056	М	Degenerative nervous system disorders w MCC	Include all	1	0.7736
057	М	Degenerative nervous system disorders w/o MCC	Include all	2	0.7620
058	M	Multiple sclerosis & cerebellar ataxia w MCC	Include all	1	1.1983
059	M	Multiple sclerosis & cerebellar ataxia w CC	Include all	2	1.3041
060	M	Multiple sclerosis & cerebellar ataxia w/o CC/MCC	Include all	2	1.7122
061	М	Acute ischemic stroke w use of thrombolytic agent w MCC	Include all	1	0.8123
062	М	Acute ischemic stroke w use of thrombolytic agent w CC	Include all	2	0.9556
063	М	Acute ischemic stroke w use of thrombolytic agent w/o CC/MCC	Include all	2	1.0010
064	M	Intracranial hemorrhage or cerebral infarction w MCC	Include all	1	0.8359
065	М	Intracranial hemorrhage or cerebral infarction w CC	Include all	2	0.8867
066	М	Intracranial hemorrhage or cerebral infarction w/o CC/MCC	Include all	2	0.9120
067	М	Nonspecific cva & precerebral occlusion w/o infarct w MCC	Include all	1	0.7953
068	М	Nonspecific cva & precerebral occlusion w/o infarct w/o MCC	Include all	2	0.7965
069	M	Transient ischemia	Include all	3	0.7453
070	М	Nonspecific cerebrovascular disorders w MCC	Include all	2	0.8048
071	М	Nonspecific cerebrovascular disorders w CC	Include all	2	0.8245
073	М	Cranial & peripheral nerve disorders w MCC	Include all	1	0.9589
074	М	Cranial & peripheral nerve disorders w/o MCC	Include all	2	1.2761
075	М	Viral meningitis w CC/MCC	Include all	2	2.7974
076	М	Viral meningitis w/o CC/MCC	Include all	2	3.1658
077	М	Hypertensive encephalopathy w MCC	Include all	1	0.8682
078	М	Hypertensive encephalopathy w CC	Include all	2	0.8812
079	М	Hypertensive encephalopathy w/o CC/MCC	Include all	2	0.8623
080	М	Nontraumatic stupor & coma w MCC	Include all	1	0.9014
081	М	Nontraumatic stupor & coma w/o MCC	Include all	2	0.9170
082	М	Traumatic stupor & coma, coma >1 hr w MCC	Include all	1	1.3895
083	М	Traumatic stupor & coma, coma >1 hr w CC	Include all	1	1.3526
084	М	Traumatic stupor & coma, coma >1 hr w/o CC/MCC	Include all	1	2.0756
085	М	Traumatic stupor & coma, coma <1 hr w MCC	Include all	1	0.8988
086	М	Traumatic stupor & coma, coma <1 hr w CC	Include all	2	0.8986
087	М	Traumatic stupor & coma, coma <1 hr w/o CC/MCC	Include all	2	1.0341
091	М	Other disorders of nervous system w MCC	Include all	3	0.9292
092	M	Other disorders of nervous system w CC	Include all	3	0.8757
093	M	Other disorders of nervous system w/o CC/MCC	Include all	3	0.8352
094	M	Bacterial & tuberculous infections of nervous system w MCC	Include all	1	1.5000

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
095	М	Bacterial & tuberculous infections of nervous system w CC	Include all	2	1.9002
096	М	Bacterial & tuberculous infections of nervous system w/o CC/MCC	Include all	2	3.0911
097	М	Non-bacterial infect of nervous sys exc viral meningitis w MCC	Include all	1	1.4222
098	М	Non-bacterial infect of nervous sys exc viral meningitis w CC	Include all	2	1.9070
099	М	Non-bacterial infect of nervous sys exc viral meningitis w/o CC/MCC	Include all	2	3.1658
100	М	Seizures w MCC	Include all	2	1.2453
955	S	Craniotomy for multiple significant trauma	Include all	1	3.1658

Orthopedics

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
			Exclude procedures: 0301- 2, 0309, 031, 0321, 0329, 0332, 0339, 034, 0351-3, 0359, 036, 0371-2, 0379, 0393, 0394,		1.4921
028	S	Spinal procedures w MCC	0397-9	1	
029	S	Spinal procedures w CC or spinal neurostimulators	See MS-DRG 028	2	1.7459
030	S	Spinal procedures w/o CC/MCC	See MS-DRG 028	2	1.9333
453	S	Combined anterior/posterior spinal fusion w MCC	Include all	1	1.1381
454	S	Combined anterior/posterior spinal fusion w CC	Include all	2	1.3825
455	S	Combined anterior/posterior spinal fusion w/o CC/MCC	Include all	2	1.5203
456	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w MCC	Include all	1	1.4393
457	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w CC	Include all	2	1.3739
458	S	Spinal fus exc cerv w spinal curv/malig/infec or 9+ fus w/o CC/MCC	Include all	2	1.7508
459	S	Spinal fusion except cervical w MCC	Include all	1	0.9830
460	S	Spinal fusion except cervical w/o MCC	Include all	2	1.1762
461	S	Bilateral or multiple major joint procs of lower extremity w MCC	Include all	1	1.0030
462	S	Bilateral or multiple major joint procs of lower extremity w/o MCC	Include all	2	1.3734
463	S	Wound Debridement and Skin Graft Except Hand, for Musculo- Connective Tissue Disease w MCC	Include procedures: 8005, 8006	1	0.8703
464	S	Wound Debridement and Skin Graft Except Hand, for Musculo- Connective Tissue Disease w CC	Include procedures: 8005, 8006	2	0.9771
465	S	Wound Debridement and Skin Graft Except Hand, for Musculo- Connective Tissue Disease w/o CC/MCC	Include procedures: 8005, 8006	2	1.2124
466	S	Revision of hip or knee replacement w MCC	Include all	3	0.7801
467	S	Revision of hip or knee replacement w CC	Include all	3	0.9032
468	S	Revision of hip or knee replacement w/o CC/MCC	Include all	3	1.0584
469	S	Major joint replacement or reattachment of lower extremity w MCC	Include all	1	0.7550
470	S	Major joint replacement or reattachment of lower extremity w/o MCC	Include all	2	1.0513
471	S	Cervical spinal fusion w MCC	Include all	1	1.1094
472	S	Cervical spinal fusion w CC	Include all	2	1.3825
473	S	Cervical spinal fusion w/o CC/MCC	Include all	2	1.4091
480	S	Hip & femur procedures except major joint w MCC	Include all	2	0.7506
481	S	Hip & femur procedures except major joint w CC	Include all	2	0.7652
482	S	Hip & femur procedures except major joint w/o CC/MCC	Include all	3	1.0918
483	S	Major joint & limb reattachment proc of upper extremity w CC/MCC	Include all	1	0.8814
485	S	Knee procedures w pdx of infection w MCC	Include all	1	0.8769
486	S	Knee procedures w pdx of infection w CC	Include all	2	1.1158
487	S	Knee procedures w pdx of infection w/o CC/MCC	Include all	2	1.3058
701		Trailed production w paix of infloation w/o dofinion	moiddo dil		

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
492	S	Lower extrem & humer proc except hip,foot,femur w MCC	Include all	2	1.1095
493	S	Lower extrem & humer proc except hip,foot,femur w CC	Include all	2	1.3375
494	S	Lower extrem & humer proc except hip,foot,femur w/o CC/MCC	Include all	3	1.9333
495	S	Local excision & removal int fix devices exc hip & femur w MCC	Include all	2	1.0465
496	S	Local excision & removal int fix devices exc hip & femur w CC	Include all	2	1.4847
497	S	Local excision & removal int fix devices exc hip & femur w/o CC/MCC	Include all	3	1.9333
498	S	Local excision & removal int fix devices of hip & femur w CC/MCC	Include all	3	1.0640
499	S	Local excision & removal int fix devices of hip & femur w/o CC/MCC	Include all	3	1.1304
500	S	Soft tissue procedures w MCC	Include all	3	1.0903
501	S	Soft tissue procedures w CC	Include all	3	1.2825
503	S	Foot procedures w MCC	Include all	3	0.9759
504	S	Foot procedures w CC	Include all	3	1.2763
505	S	Foot procedures w/o CC/MCC	Include all	3	1.6254
506	S	Major thumb or joint procedures	Include all	3	1.0072
507	S	Major shoulder or elbow joint procedures w CC/MCC	Include all	2	1.2569
508	S	Major shoulder or elbow joint procedures w/o CC/MCC	Include all	2	1.9333
515	S	Other musculoskelet sys & conn tiss O.R. proc w MCC	procedures: 7601, 7631, 7639, 764, 7641-6, 765-6, 7661-70, 7672, 7674, 7679, 7691-2, 7694, 7699, 7700-1, 7709, 7720-1, 7729-31, 7739, 7780-1, 7789-91, 7799-7801, 7809-7811, 7819-20, 7829-30, 7839-41, 7849-51, 7859, 7870-1, 7899, 7910, 7919-20, 7929-30, 7939-40, 7949-50, 7959-60, 7969, 7980, 7989-90, 7999, 8010, 8019, 8040, 8049, 8090, 8118, 8120, 8129, 8159, 8165-6, 8196-7, 8199, 8429, 8440, 8493, 8499	3	0.8690
516	S	Other musculoskelet sys & conn tiss O.R. proc w CC	See MS-DRG 515	3	0.8310
517	S	Other musculoskelet sys & conn tiss O.R. proc w/o CC/MCC	See MS-DRG 515	3	0.7783
518	S	Back & Neck Procedures Except Spinal Fusion with MCC or Disc Device/Neurostimulator	Include all	1	1.2361
519	S	Back & Neck Procedures Except Spinal Fusion with CC	Include all	2	1.1394
520	S	Back & Neck Procedures Except Spinal Fusion without CC/MCC	Include all	3	0.9307
533	M	Fractures of femur w MCC	Include all	1	0.7365
	M	Fractures of femur w/o MCC	Include all	2	1.0507
53 <i>1</i>		i radiales di lelliai w/d MOO	moude all		1.0001
534 535		Fractures of hin & nelvis w MCC	Include all	1	0 6995
534 535 536	M M	Fractures of hip & pelvis w MCC Fractures of hip & pelvis w/o MCC	Include all Include all	1 2	0.6995 0.7237

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
540	М	Osteomyelitis w CC	Include all	3	1.1041
541	М	Osteomyelitis w/o CC/MCC	Include all	3	1.1913
542	M	Pathological fractures & musculoskelet & conn tiss malig w MCC	Include diagnoses: 7331, 73310-6, 73319, 73393-5	1	0.7487
543	М	Pathological fractures & musculoskelet & conn tiss malig w CC	See MS-DRG 542	2	0.7428
544	M	Pathological fractures & musculoskelet & conn tiss malig w/o CC/MCC	See MS-DRG 542	2	0.6935
956	S	Limb reattachment, hip & femur proc for multiple significant trauma	Include all	1	1.5128

Pulmonology

MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
003	S	ECMO or trach w MV 96+ hrs or PDX exc face, mouth & neck w maj O.R.	Include all	1	1.5125
004	S	Trach w MV 96+ hrs or PDX exc face, mouth & neck w/o maj O.R.	Include all	1	1.1751
007	S	Lung transplant	Include all	1	1.5749
163	S	Major chest procedures w MCC	Include procedures: 3173, 3175, 3179, 3209, 321, 3221-2, 3229, 323-6, 329- 31, 3325, 3328, 3334, 3339, 334, 3341-3, 3348-9, 3392, 3398-9, 3402, 3427, 345, 3451, 3459, 346, 3473-4, 348, 3481-5, 3489, 3493	2	1.2467
164	S	Major chest procedures w CC	See MS-DRG 163	2	1.1810
165	S	Major chest procedures w/o CC/MCC	See MS-DRG 163	2	1.2746
166	S	Other resp system O.R. procedures w MCC	Include all	2	1.0352
167	S	Other resp system O.R. procedures w CC	Include all	2	1.1642
168	S	Other resp system O.R. procedures w/o CC/MCC	Include all	3	1.2418
175	М	Pulmonary embolism w MCC	Include all	1	1.0960
176	М	Pulmonary embolism w/o MCC	Include all	1	1.3993
177	M	Respiratory infections & inflammations w MCC	Exclude diagnoses: 7955, V712, 79551, 75952	1	0.8477
178	М	Respiratory infections & inflammations w CC	See MS-DRG 177	2	0.9003
179	М	Respiratory infections & inflammations w/o CC/MCC	See MS-DRG 177	2	1.0459
180	M	Respiratory neoplasms w MCC	Exclude diagnoses: 2122-5, 2128-9, 2133	1	1.0277
181	M	Respiratory neoplasms w CC	See MS-DRG 181	2	1.0879
182	M	Respiratory neoplasms w/o CC/MCC	See MS-DRG 181	2	1.1391
183	M	Major chest trauma w MCC	Include all	1	1.1218
184	М	Major chest trauma w CC	Include all	1	1.3838
185	М	Major chest trauma w/o CC/MCC	Include all	1	1.3752
186	М	Pleural effusion w MCC	Include all	3	0.9354

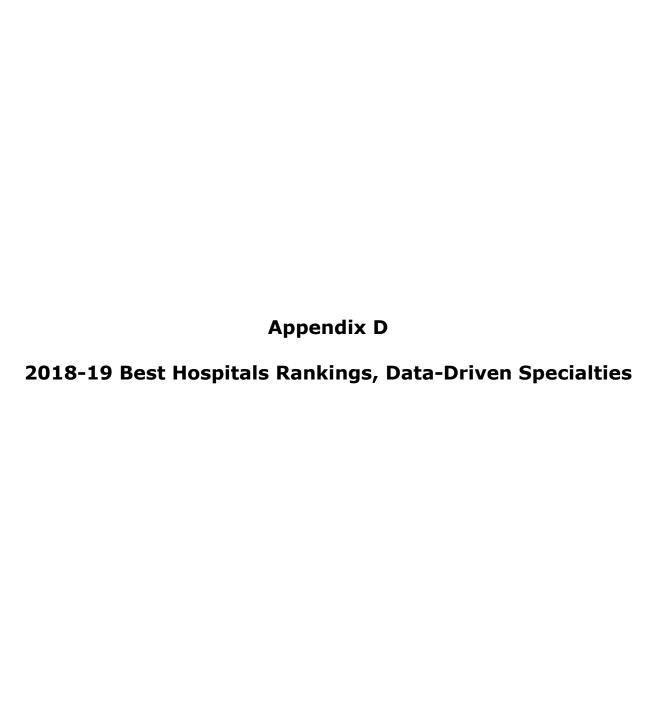
MS- DRG	Medical/ Surgical	DRG Title	ICD-9-CM	Severity	Weight
187	M	Pleural effusion w CC	Include all	3	1.0036
189	M	Pulmonary edema & respiratory failure	Include all	2	0.9658
190	M	Chronic obstructive pulmonary disease w MCC	Include all	3	0.8886
191	М	Chronic obstructive pulmonary disease w CC	Include all	3	0.8514
192	М	Chronic obstructive pulmonary disease w/o CC/MCC	Include all	3	0.8655
193	M	Simple pneumonia & pleurisy w MCC	Include all	3	0.8868
194	M	Simple pneumonia & pleurisy w CC	Include all	3	0.9008
196	М	Interstitial lung disease w MCC	Include all	3	0.9305
197	M	Interstitial lung disease w CC	Include all	3	1.0090
198	М	Interstitial lung disease w/o CC/MCC	Include all	3	1.3114
199	M	Pneumothorax w MCC	Exclude diagnoses: 5121	1	1.2683
200	М	Pneumothorax w CC	See MS-DRG 199	2	1.5749
202	М	Bronchitis & asthma w CC/MCC	Include all	3	1.5749
207	M	Respiratory system diagnosis w ventilator support 96+ hours	Include all	2	1.1121
208	М	Respiratory system diagnosis w ventilator support <96 hours	Include all	2	1.0892
870	М	Septicemia or severe sepsis w MV 96+ hours	Include all	1	1.0327
871	М	Septicemia or severe sepsis w/o MV 96+ hours w MCC	Include all	1	0.9268
872	М	Septicemia or severe sepsis w/o MV 96+ hours w/o MCC	Include all	1	1.2070

Urology

MS- DRG	Medical/ Surgical	DRG Title	IC9-CM	Severity	Weight
653	S	Major bladder procedures w MCC	Include all	1	0.9858
654	S	Major bladder procedures w CC	Include all	2	1.1710
655	S	Major bladder procedures w/o CC/MCC	Include all	2	1.2333
656	S	Kidney & ureter procedures for neoplasm w MCC	Include procedures: 561-2, 5640-2, 5651-2, 5661-2, 5671-5, 5679, 5681-6, 5689, 5692-5, 5699, 5900, 5902-3, 5909	1	0.7936
657	S	Kidney & ureter procedures for neoplasm w CC	See MS-DRG 656	2	0.9498
658	S	Kidney & ureter procedures for neoplasm w/o CC/MCC	See MS-DRG 656	2	0.8559
659	S	Kidney & ureter procedures for non-neoplasm w MCC	See MS-DRG 656	2	1.2703
660	S	Kidney & ureter procedures for non-neoplasm w CC	See MS-DRG 656	2	1.8961
661	S	Kidney & ureter procedures for non-neoplasm w/o CC/MCC	See MS-DRG 656	3	1.3124
662	S	Minor bladder procedures w MCC	Include all	3	0.8965
663	S	Minor bladder procedures w CC	Include all	3	1.0189
664	S	Minor bladder procedures w/o CC/MCC	Include all	3	1.8961
665	S	Prostatectomy w MCC	Include all	3	0.8086
666	S	Prostatectomy w CC	Include all	3	0.7846
668	S	Transurethral procedures w MCC	Include all	3	0.9237
669	S	Transurethral procedures w CC	Include all	3	1.0570
671	S	Urethral procedures w CC/MCC	Include all	3	1.0679
673	S	Other kidney & urinary tract procedures w MCC	Include procedures: 1756, 3806-7, 3816, 3836-7,	3	0.9297

707 S Major male pelvic procedures w CC/MCC Include all 2 1.5229 708 S Major male pelvic procedures w/o CC/MCC Include all 2 1.7699 709 S Penis procedures w CC/MCC Include all 3 1.2070 710 S Penis procedures w/o CC/MCC Include all 3 1.1194 711 S Testes procedures w/o CC/MCC Include all 2 1.8961 712 S Testes procedures w/o CC/MCC Include all 3 1.8961 713 S Transurethral prostatectomy w CC/MCC Include all 2 0.8514 715 S CC/MCC Include all 2 1.3451 716 S CC/MCC Include all 2 1.8566 717 S CC/MCC Include all 3 1.0298 718 S CC/MCC Include all 3 1.1194 722 M Malignancy, male reproductive system w MCC Include all 1	MS- DRG	Medical/ Surgical	DRG Title	IC9-CM	Severity	Weight
675 S				387, 3886-7, 3927, 3942-3, 3949-50, 3952, 3956-9,		
Exclude diagnoses: 1890-1, 1980-1, 2	674	S	Other kidney & urinary tract procedures w CC	See MS-DRG 673	3	0.7989
Beautiful	675	S	Other kidney & urinary tract procedures w/o CC/MCC	See MS-DRG 673	3	0.6562
See MS-DRG 686 2 0.9377	686	M	Kidney & urinary tract neonlasms w MCC	diagnoses: 1890-1, 1980-1,	2	0.9650
688						0 9377
691 M Urinary stones w esw lithotripsy w CC/MCC Include all 3 1.4107						
Maigraney Maig		1	, , ,			
M						
Exclude diagnoses: 580-3, 587, 589, 866, 4401, 4421, 4473, 4453, 5800, 5804, 5808-13, 5818-22, 5824, 5828-32, 5824, 5828-32, 5824, 5828-32, 5824, 5828-32, 5834, 5836- 9,5890-1,5899, 5830-2,5936, 6860, 8660, 3, 8661, 86610-3, 27410, 27419, 44323, 44581, 58081, 58089, 58181, 58189, 58281, 58289, 58181, 58189, 58281, 58289, 58181, 58189, 58281, 58289, 58181, 58189, 58281, 58289, 58181, 58189, 58281, 58289, 58181, 58189, 58281, 58289, 58181, 58189, 58281, 58289, 58281, 58289, 58181, 58189, 58281, 58289, 58181, 58189, 58281, 58281, 58289, 58281, 58289, 58281, 58289, 58281, 58289, 58281, 582819, 58281, 58289, 58281, 58289, 58281, 58281, 58289, 58281, 58281, 58289, 58281, 58281, 58281, 58289, 58281, 58281, 58281, 58281, 58289, 58281						
diagnoses: 580-3, 587, 589, 866, 4401, 4421, 4473, 4333, 5800, 5804, 5508-13, 5818-22, 5824, 5828-32, 5834, 5836-3, 5839, 5830-2, 5936, 866, 86600-3, 8661, 86610-3, 274710, 727419, 44323, 44581, 58081, 58089, 58181, 58189, 58281, 58289, 58381, 58389, 58181, 58189, 58281, 58289, 58381, 58389, 58181, 58189, 58281, 58289, 58381, 58389, 58181, 58189, 58281, 58289, 58381, 58389, 5	097	IVI	Oreunai Suicture		3	1.0409
700 M Other kidney & urinary tract diagnoses w/o CC/MCC See MS-DRG 698 3 1.0566 707 S Major male pelvic procedures w CC/MCC Include all 2 1.5229 708 S Major male pelvic procedures w CC/MCC Include all 2 1.7699 709 S Penis procedures w CC/MCC Include all 3 1.2070 710 S Penis procedures w/o CC/MCC Include all 3 1.1194 711 S Testes procedures w/o CC/MCC Include all 2 1.8961 712 S Testes procedures w/o CC/MCC Include all 3 1.8961 713 S Transurethral prostatectomy w CC/MCC Include all 2 0.8514 715 S CC/MCC Include all 2 1.3451 716 S CC/MCC Include all 2 1.8566 717 S CC/MCC Include all 3 1.0298 718 S CC/MCC Include all 3 </td <td></td> <td>M</td> <td></td> <td>diagnoses: 580-3, 587, 589, 866, 4401, 4421, 4473, 4533, 5800, 5804, 5808-13, 5818-22, 5824, 5828-32, 5834, 5836-9,5890-1, 5899, 5930-2, 5936, 8660, 86600-3, 8661, 86610-3, 27410, 27419, 44323, 44581, 58081, 58089, 58181, 58189, 58281, 58289, 58381, 58389, V420, V594</td> <td>3</td> <td></td>		M		diagnoses: 580-3, 587, 589, 866, 4401, 4421, 4473, 4533, 5800, 5804, 5808-13, 5818-22, 5824, 5828-32, 5834, 5836-9,5890-1, 5899, 5930-2, 5936, 8660, 86600-3, 8661, 86610-3, 27410, 27419, 44323, 44581, 58081, 58089, 58181, 58189, 58281, 58289, 58381, 58389, V420, V594	3	
700 M Other kidney & urinary tract diagnoses w/o CC/MCC See MS-DRG 698 3 1.0566 707 S Major male pelvic procedures w CC/MCC Include all 2 1.5229 708 S Major male pelvic procedures w CC/MCC Include all 2 1.7699 709 S Penis procedures w CC/MCC Include all 3 1.2070 710 S Penis procedures w/o CC/MCC Include all 3 1.1194 711 S Testes procedures w/o CC/MCC Include all 2 1.8961 712 S Testes procedures w/o CC/MCC Include all 3 1.8961 713 S Transurethral prostatectomy w CC/MCC Include all 2 0.8514 715 S CC/MCC Include all 2 1.3451 716 S CC/MCC Include all 2 1.8566 717 S CC/MCC Include all 3 1.0298 718 S CC/MCC Include all 3 </td <td></td> <td></td> <td></td> <td>·</td> <td></td> <td>0.9327</td>				·		0.9327
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708 S Major male pelvic procedures w/o CC/MCC Include all 2 1.7699 709 S Penis procedures w CC/MCC Include all 3 1.2070 710 S Penis procedures w/o CC/MCC Include all 3 1.1194 711 S Testes procedures w/o CC/MCC Include all 2 1.8961 712 S Testes procedures w/o CC/MCC Include all 3 1.8961 712 S Testes procedures w/o CC/MCC Include all 2 0.8514 713 S Transurethral prostatectomy w CC/MCC Include all 2 0.8514 715 S CC/MCC Include all 2 1.3451 716 S CC/MCC Include all 2 1.8566 717 S CC/MCC Include all 3 1.0298 718 S CC/MCC Include all 3 1.1194 722 M Malignancy, male reproductive system w MCC Include all 1 1						1.5229
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716 S CC/MCC Include all 2 717 S CC/MCC Include all 3 718 S CC/MCC Include all 3 718 S CC/MCC Include all 3 719 Include all 3 720 M Malignancy, male reproductive system w MCC Include all 1 720 Include all 1 721 Include all 1 722 Include all 1 723 Include all 2 724 M Malignancy, male reproductive system w CC Include all 2 725 Include all 2 726 Include all 2 727 Include all 2 728 Include all 2 729 Include all 2 720 Include all 2	715	S	Other male reproductive system O.R. proc for malignancy w CC/MCC		2	1.3451
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723 M Malignancy, male reproductive system w CC Include all 2 1.0820 724 M Malignancy, male reproductive system w/o CC/MCC Include all 2 1.2727					1	1.0913
724 M Malignancy, male reproductive system w/o CC/MCC Include all 2 1.2727					2	
TELL IN LINGUISHINGS OF THE PROPERTY OF THE STATE OF THE	727	M	Inflammation of the male reproductive system w MCC	Include all	3	0.9951

MS- DRG	Medical/ Surgical	DRG Title	IC9-CM	Severity	Weight
728	М	Inflammation of the male reproductive system w/o MCC	Include all	3	1.1295
729	М	Other male reproductive system diagnoses w CC/MCC	Exclude diagnoses: V252	3	1.2922
730	М	Other male reproductive system diagnoses w/o CC/MCC	See MS-DRG 729	3	1.0098
984	S	Prostatic O.R. procedure unrelated to principal diagnosis w MCC	Include all	3	0.7875
985	S	Prostatic O.R. procedure unrelated to principal diagnosis w CC	Include all	3	0.7608
986	S	Prostatic O.R. procedure unrelated to principal diagnosis w/o CC/MCC	Include all	3	0.6562



	Best Hospitals 2018-19: Cancer Hospital	U.S. News Specialty Score	30-day cancer survival	Patient safety	Success in preventing deaths from treatable complications after surgery	Success in preventing major bleeding and bruising after surgery	Success in preventing respiratory failure after surgery	Success in preventing harm to patients during surgery	Number of patients	Nurse staffing	Intensivists	Advanced technologies	Patient services	Recognized as Nurse Magnet hospital	NCI-designated cancer center	Accredited by FACT	Reputation with physicians in specialty	Current AHA responder
	University of Texas MD Anderson Cancer Center, Houston	100.0	10	5	2	2	2	2	7,855	2.0	Yes	8	8	1	Yes	2	53.3	Yes
	Memorial Sloan-Kettering Cancer Center, New York	97.4	10	5	2	1	3	2	6,241	2.1	Yes	8	8	1	Yes	2	50.6	Yes
	Mayo Clinic, Rochester, Minn. Dana-Farber/Brigham and Women's Cancer Center, Boston	95.3 83.0	10 10	5 5	2	2	2	2	4,019 3,161	2.8	Yes	8	8	1	Yes	2	22.3	Yes Yes
	Cleveland Clinic	80.9	10	6	2	3	2	2	2,554	2.1	Yes	8	8	1	Yes	2	8.7	Yes
	Johns Hopkins Hospital, Baltimore	80.3	10	4	1	2	2	2	1,855	2.1	Yes	8	8	1	Yes	2	17.6	Yes
	Seattle Cancer Care Alliance/University of Washington Med. Center	78.5	10	5	2	2	2	2	1,580	2.0	Yes	8	8	1	Yes	2	8.1	Yes
	H. Lee Moffitt Cancer Center and Research Institute, Tampa	76.6	10	4	2	2	2	1	3,264	1.2	Yes	8	7	1	Yes	2	7.0	Yes
	UCSF Medical Center, San Francisco Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	76.6 75.8	10 10	6	3	2	2	2	2,089 3,037	2.1	Yes	8	8	1	Yes	2	5.4 6.8	Yes
	Mayo Clinic-Phoenix	74.1	10	6	3	2	2	2	1,761	2.4	Yes	8	8	1	Yes	2	2.7	Yes Yes
	Massachusetts General Hospital, Boston	72.6	9	5	2	2	2	2	2,866	2.4	Yes	8	8	1	Yes	2	9.9	Yes
	Northwestern Memorial Hospital, Chicago	72.6	10	5	2	2	2	2	1,723	1.8	Yes	8	8	1	Yes	2	2.2	Yes
14	Stanford Health Care-Stanford Hospital, Stanford, Calif.	72.4	10	5	2	2	2	2	2,126	2.5	Yes	8	8	1	Yes	2	5.9	Yes
	Siteman Cancer Center, St. Louis	72.3	10	5	2	2	2	2	3,402	2.2	Yes	8	8	1	Yes	2	4.0	Yes
	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	72.3	10	7	2	2	3	3	2,128	2.7	Yes	8	8	1	Yes	2	3.7	Yes
	USC Norris Cancer Hospital-Keck Medical Center of USC, Los Angeles University of Iowa Hospitals and Clinics, Iowa City	71.7	10 10	6 5	2	2	2	2	1,345 1,356	2.4 1.8	Yes	8	8	0	Yes	2	1.0 1.4	Yes Yes
	Wake Forest Baptist Medical Center, Winston-Salem, N.C.	70.0	10	5	2	2	2	2	2,652	1.6	Yes	8	8	1	Yes	2	1.5	Yes
	Ohio State University James Cancer Hospital, Columbus	69.9	10	5	2	2	2	2	3,206	2.1	Yes	8	8	1	Yes	2	4.8	Yes
21	City of Hope Helford Clinical Research Hospital, Duarte, Calif.	69.4	10	5	2	2	2	2	2,152	2.4	Yes	8	8	0	Yes	2	5.0	Yes
	UCLA Medical Center, Los Angeles	69.4	10	5	2	2	2	2	2,053	3.0	Yes	8	8	1	Yes	2	5.0	Yes
	UPMC Presbyterian Shadyside, Pittsburgh	68.9	10	5	2	2	2	2	3,820	1.9	Yes	8	8	1	Yes	2	4.1	Yes
	MUSC Health-University Medical Center, Charleston, S.C. New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	68.7 68.5	10 10	5	2	2	2 2	2	1,082 4,424	2.3	Yes Yes	8	8	0	Yes	2	0.4 3.5	Yes Yes
	Jefferson Health-Thomas Jefferson University Hospitals, Philadelphia	68.4	10	5	2	2	2	2	2,082	2.2	Yes	8	8	1	Yes	2	2.1	Yes
	University of Colorado Hospital, Aurora	68.4	10	5	2	2	2	2	1,803	1.9	Yes	8	8	1	Yes	2	1.5	Yes
	OHSU Hospital, Portland, Ore.	67.9	10	5	2	2	2	2	1,648	2.0	Yes	8	8	1	Yes	2	1.2	Yes
	University Hospitals Seidman Cancer Center, Cleveland	67.9	10	5	2	2	2	2	1,538	2.6	Yes	8	8	1	Yes	2	1.1	Yes
	Mayo Clinic Jacksonville, Fla.	67.8	10	6	2	2	2	3	961	2.1	Yes	8	8	1	Yes	2	2.8	Yes
	Roswell Park Comprehensive Cancer Center, Buffalo University of Maryland Medical Center, Baltimore	67.8 67.7	10 10	5	2	2	2 1	2	1,257 1,073	1.9 2.9	Yes	8	8	0	Yes	2	2.1	Yes Yes
	University of Chicago Medical Center	67.2	10	7	2	3	2	3	1,818	2.4	Yes	8	8	0	Yes	2	3.8	Yes
	University of Minnesota Medical Center, Fairview	67.2	10	5	2	2	2		1,680	2.0	Yes	8	8	0	Yes	2	0.4	Yes
	Duke University Hospital, Durham, N.C.	67.1	9	6	2	3	2	2	2,047	2.1	Yes	8	8	1	Yes	2	5.4	Yes
	University of California, Davis Medical Center, Sacramento	66.8	10	5	2	2	2	2	1,509	2.8	Yes	8	8	1	Yes	2	0.4	Yes
	University of North Carolina Hospitals, Chapel Hill	66.8	10	5	2	2	2	2	1,538	1.8	Yes	8	8	1	Yes	2	2.4	Yes
	University of Kentucky Albert B. Chandler Hospital, Lexington	66.1	10 9	5 6	2	2	2 2		1,015		Yes	8	8	1	Yes	2	1.2	Yes
	Vanderbilt University Medical Center, Nashville, Tenn. University of Virginia Medical Center, Charlottesville	65.8 65.6	10	5	2	2	2	2	1,844 962	2.5	Yes Yes	8	8	1	Yes Yes	2	2.9	Yes
	Cedars-Sinai Medical Center, Los Angeles	65.5	10	5	2	2	2	2	2,650	2.6	Yes	8	8	1	No	2	1.5	Yes
	University of Kansas Hospital, Kansas City	65.3	10	5	2	2	2	2	1,501		Yes	8	8	1	Yes	2	0.8	Yes
	University of Wisconsin Hospitals, Madison	65.1	10	5	2	2	2	2	1,349	2.1	Yes	8	8	1	Yes	2	0.7	Yes
	NYU Langone Hospitals, New York, N.Y.	64.4	10	5	2	2	2	2	1,699	2.3	Yes	8	8	1	Yes	1	1.4	Yes
	UC San Diego Health-Moores Cancer Center	64.0	10	5	2	2	2	2	1,315	2.0	Yes	8	8	1	Yes	2	1.6	Yes
	Indiana University Health Academic Health Center, Indianapolis	63.3	10 9	5	2	2	2	2 2	1,564 1,933		Yes	8	8	1	Yes	2	0.5	Yes
	Mount Sinai Hospital, New York Huntsman Cancer Institute at the University of Utah, Salt Lake City	62.3 62.2	10	6 5	2	2	2 2		1,933	1.9	Yes Yes	8	8	0	Yes Yes	2	0.8	Yes Yes
	Beth Israel Deaconess Medical Center, Boston	62.1	10	5	2	2	2	2		1.6	Yes	8	8	0	Yes	2	0.5	Yes
	Rush University Medical Center, Chicago	62.1	10	5	2	2	2		1,505		Yes	8	8	1	No	2		Yes

	Best Hospitals 2018-19: Cardiology & Heart Surgery	Score			g deaths from ons after surgery	g major bleeding rgery	preventing respiratory r surgery	g harm to patients							Se			Magnet hospital	icians in specialty	er
	Hospital	U.S. News Specialty	30-day survival	Patient safety	Success in preventing treatable complication	Success in preventing rand bruising after surge	Success in failure afte	Success in preventing during surgery	Number of patients	Nurse staffing	Intensivists	Public transparency	STS transparency	ACC transparency	Advanced technologies	Patient services	Trauma center	Recognized as Nurse	Reputation with physicians	Current AHA responder
2	Cleveland Clinic Mayo Clinic, Rochester, Minn.	100.0 99.6	10 10	6 5	2	3 2	2	2	14,270 13,557	2.1 2.8	Yes Yes	3	Yes Yes	Yes Yes	6 6	7 7	No Yes	1	42.7 38.6	Yes Yes
3	Smidt Heart Institute at Cedars-Sinai, Los Angeles	84.3	10	5	2	2	2	2	12,171	2.6	Yes	3	Yes	Yes	6	7	Yes	1	8.1	Yes
4	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	83.3	10	4	2	1	2	2	16,804	2.9	Yes	3	Yes	Yes	6	7	Yes	0	14.7	Yes
5	Massachusetts General Hospital, Boston	79.8	10	5	2	2	2	2	8,992	2.4	Yes	3	Yes	Yes	6	7	Yes	1	17.9	Yes
6	Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	78.0	10	6	2	3	2	2	11,078	2.4	Yes	3	Yes	Yes	6	7	Yes	1	8.6	Yes
7	Northwestern Memorial Hospital, Chicago	76.9	10	5	2	2	2	2	4,919	1.8	Yes	3	Yes	Yes	6	7	Yes	1	5.5	Yes
8	Brigham and Women's Hospital, Boston	76.7	10	5	2	2	2	2	6,562	2.3	Yes	3	Yes	Yes	6	7	Yes	0	15.3	Yes
8	University of Michigan Hospitals-Michigan Medicine, Ann Arbor Mount Sinai Hospital, New York	76.7 75.8	10 10	7 6	2	2	3	3 2	6,268 9,425	2.7 1.9	Yes Yes	3	Yes Yes	Yes Yes	6 6	7	Yes Yes	1	4.5 4.2	Yes Yes
11	Johns Hopkins Hospital, Baltimore	74.3	10	4	1	2	2	2	4,300	2.1	Yes	3	Yes	Yes	6	7	Yes	1	13.8	Yes
12	Barnes-Jewish Hospital, St. Louis	73.0	10	5	2	2	2	2	8,049	2.2	Yes	3	Yes	Yes	6	7	Yes	1	3.2	Yes
13	Stanford Health Care-Stanford Hospital, Stanford, Calif.	72.4	10	5	2	2	2	2	4,709	2.5	Yes	3	Yes	Yes	6	7	Yes	1	6.4	Yes
14	Houston Methodist Hospital	72.3	10	5	2	2	2	2	8,328	2.0	Yes	3	Yes	Yes	6	7	No	1	4.9	Yes
15	Duke University Hospital, Durham, N.C.	72.2	9	6	2	3	2	2	6,605	2.1	Yes	3	Yes	Yes	6	7	Yes	1	11.6	Yes
16	UCLA Medical Center, Los Angeles	71.3	10	5	2	2	2	2	5,499	3.0	Yes	3	Yes	Yes	6	7	Yes	1	4.0	Yes
17	Vanderbilt University Medical Center, Nashville, Tenn.	70.9	10	6	2	3	2	2	6,397	2.5	Yes	3	Yes	Yes	6	7	Yes	1	3.1	Yes
18	University of Alabama at Birmingham Hospital	69.7 67.7	10 10	6 5	2	2	2	3	6,065	1.8 2.4	Yes Yes	3	Yes Yes	Yes	6 6	7	Yes	1	1.4 0.9	Yes Yes
19 20	Minneapolis Heart Institute at Abbott Northwestern Hospital Morristown Medical Center, Morristown, N.J.	67.7	10	5	2	2	2	2	12,253 8,335	2.4	Yes	3	Yes	Yes Yes	5	7	No Yes	1	0.5	Yes
21	Heart Hospital Baylor Plano, Texas	67.5	10	6	2	3	2	2	4,992	2.0	Yes	3	Yes	Yes	5	7	No	1	1.6	Yes
22	Texas Heart Institute at Baylor St. Luke's Medical Center, Houston	67.2	10	5	2	2	2	2	7,012	1.6	Yes	3	Yes	Yes	5	6	No	1	8.0	Yes
23	Scripps La Jolla Hospitals, La Jolla, Calif.	67.0	10	6	2	3	2	2	5,464	3.1	Yes	3	Yes	Yes	5	7	Yes	1	1.1	Yes
24	Ohio State University Wexner Medical Center, Columbus	66.9	10	5	2	2	2	2	7,344	2.1	Yes	3	Yes	Yes	6	7	Yes	1	1.3	Yes
24	University of Kansas Hospital, Kansas City	66.9	10	5	2	2	2	2	4,205	2.1	Yes	3	Yes	Yes	6	7	Yes	1	0.5	Yes
26	University Hospitals Cleveland Medical Center	66.4	10	5	2	2	2	2	4,413	2.6	Yes	3	Yes	Yes	6	7	Yes	1	1.5	Yes
27	Loyola University Medical Center, Maywood, Ill.	66.1	10	5	2	2	2	2	3,332	2.4	Yes	3	Yes	Yes	6	7	Yes	1	1.1	Yes
28 29	Memorial Hermann-Texas Medical Center, Houston Mayo Clinic-Phoenix	66.0 65.7	10 10	5 6	2	2	2	2	4,351 4,055	2.2	Yes Yes	3 2	Yes No	Yes Yes	6 6	7	Yes No	1	1.2 1.6	Yes Yes
30	Beaumont Hospital-Royal Oak, Mich.	65.6	10	6	2	2	3	2	9,864	1.9	Yes	3	Yes	Yes	5	7	Yes	1	0.9	Yes
30	UCSF Medical Center, San Francisco	65.6	10	6	3	2	2	2	2,645	2.1	Yes	3	Yes	Yes	6	6	Yes	1	2.8	Yes
32	Sentara Norfolk General Hospital-Sentara Heart Hospital, Norfolk, Va.	65.4	10	5	2	2	2	2	6,246	1.6	Yes	3	Yes	Yes	6	7	Yes	1	0.4	Yes
33	NYU Langone Hospitals, New York, N.Y.	65.0	9	5	2	2	2	2	7,659	2.3	Yes	3	Yes	Yes	5	7	Yes	1	3.2	Yes
34	University of California, Davis Medical Center, Sacramento	64.8	10	5	2	2	2	2	4,070	2.8	Yes	3	Yes	Yes	5	7	Yes	1	0.2	Yes
35	Aurora St. Luke's Medical Center, Milwaukee	64.7	10	3	2	1	1	2	9,571	2.2	Yes	3	Yes	Yes	6	7	No	1	1.0	Yes
36	Cleveland Clinic Fairview Hospital, Cleveland	64.6	10 9	6 5	2	2	2	2	4,045 9,730	1.9 1.9	Yes Yes	3	Yes	Yes Yes	5 6	7	Yes	1	0.1 2.5	Yes Yes
	UPMC Presbyterian Shadyside, Pittsburgh St. Luke's Hospital of Kansas City, Mo.	64.4	10	5	2	2	2	2	5,211	1.6	Yes	3	Yes	Yes	6	7	Yes	1	0.9	Yes
	Jefferson Health-Thomas Jefferson University Hospitals, Philadelphia	63.1	10	5	2	2	2	2	4,514	2.2	Yes	3	Yes	Yes	6	7	Yes	1	1.0	Yes
	UC San Diego Health-Sulpizio Cardiovascular Center	62.9	10	5	2	2	2	2	3,573	2.0	Yes	3	Yes	Yes	6	7	Yes	1	0.5	Yes
41	OHSU Hospital, Portland, Ore.	62.7	10	5	2	2	2	2	3,857	2.0	Yes	3	Yes	Yes	6	7	Yes	1	0.6	Yes
42	University of Colorado Hospital, Aurora	62.1	10	5	2	2	2	2	4,650	1.9	Yes	2	No	Yes	6	7	Yes	1	1.1	Yes
43	Banner University Medical Center Phoenix	62.0	10	5	2	2	2	2	3,597	2.3	Yes	0	No	No	5	7	Yes	1	0.4	Yes
	University of Virginia Medical Center, Charlottesville	61.9	10	5	2	2	2	2	3,990	2.1	Yes	3	Yes	Yes	6	7	Yes	1	0.9	Yes
45	Keck Hospital of USC, Los Angeles Indiana University Health Academic Health Center, Indianapolis	61.8	10	6 5	2	3	2	2	2,295	2.4	Yes	3	Yes	Yes	6	7	Yes	0	1.4	Yes
	Mayo Clinic Jacksonville, Fla.	61.5 61.5	10 10	6	2	2	2	3	4,403 2,473	2.0	Yes Yes	2	Yes No	Yes Yes	6 6	7	Yes No	1 1	0.5 1.2	Yes Yes
	University of Wisconsin Hospitals, Madison	61.4	10	5	2	2	2	2	3,605	2.1	Yes	3	Yes	Yes	6	7	Yes	1	0.5	Yes
	MedStar Washington Hospital Center, Washington, D.C.	61.2	10	4	2	1	2	2	8,820	2.3	Yes	3	Yes	Yes	6	7	Yes	0	1.8	Yes
	St. Cloud Hospital, St. Cloud, Minn.	61.2	9	5	2	2	2	2	9,024	2.2		3	Yes	Yes	5	7	Yes	1	0.0	Yes

	Best Hospitals 2018-19: Diabetes & Endocrinology				from surgery	bleeding	_	patients						spital	specialty	
		S. News Specialty Score	30-day survival	Patient safety	Success in preventing deaths from treatable complications after surge	Success in preventing major blee and bruising after surgery	Success in preventing respiratory failure after surgery	Success in preventing harm to paduring surgery	Number of patients	Nurse staffing	Intensivists	Advanced technologies	Patient services	Recognized as Nurse Magnet hospital	Reputation with physicians in spo	Current AHA responder
Rank	Hospital	j			ב ע											-
1	Mayo Clinic, Rochester, Minn.	100.0	10	5	2	2	2	2	777	2.8	Yes	4	8	1	45.4	Yes
2	Johns Hopkins Hospital, Baltimore	86.8	10	4	1	2	2	2	354	2.1	Yes	4	8	1	18.3	Yes
3	Massachusetts General Hospital, Boston	83.1	8 8	5	2	2	2	2	515 646	2.4	Yes	4	8	1 1	28.9 16.2	Yes
5	Cleveland Clinic Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	79.1	9	6	2	3	2	2	578	2.1	Yes Yes	4	8	1	8.9	Yes Yes
6	UCSF Medical Center, San Francisco	78.5	10	6	3	2	2	2	394	2.1	Yes	4	8	1	9.0	Yes
6	University of Colorado Hospital, Aurora	78.5	10	5	2	2	2	2	588	1.9	Yes	4	8	ī	5.6	Yes
8	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	78.1	8	4	2	1	2	2	1,369	2.9	Yes	4	8	Ō	11.6	Yes
9	UCLA Medical Center, Los Angeles	76.6	9	5	2	2	2	2	557	3.0	Yes	4	8	1	5.7	Yes
10	Barnes-Jewish Hospital, St. Louis	76.3	9	5	2	2	2	2	608	2.2	Yes	4	8	1	7.0	Yes
11	UPMC Presbyterian Shadyside, Pittsburgh	74.4	10	5	2	2	2	2	695	1.9	Yes	4	8	1	3.5	Yes
12	University of Washington Medical Center, Seattle	73.3	10	5	2	2	2	2	175	2.0	Yes	4	8	1	7.3	Yes
13	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	73.2	9	7	2	2	3	3	390	2.7	Yes	4	8	1	5.5	Yes
14 15	Beaumont Hospital-Royal Oak, Mich. Cedars-Sinai Medical Center, Los Angeles	72.6 72.5	10 9	6 5	2	2	3 2	2	946 886	1.9 2.6	Yes Yes	4	8	1	0.1 2.5	Yes Yes
16	DMC Harper University Hospital, Detroit	72.3	10	5	2	2	2	2	237	1.7	Yes	4	8	1	0.2	Yes
17	Stanford Health Care-Stanford Hospital, Stanford, Calif.	72.1	10	5	2	2	2	2	439	2.5	Yes	4	8	1	3.5	Yes
18	University of Kansas Hospital, Kansas City	71.9	10	5	2	2	2	2	337	2.1	Yes	4	8	1	0.2	Yes
19	Scripps La Jolla Hospitals, La Jolla, Calif.	71.7	10	6	2	3	2	2	353	3.1	Yes	4	8	1	0.5	Yes
20	Providence Portland Medical Center, Portland, Ore.	71.4	10	4	2	1	2	2	251	1.5	Yes	3	8	1	0.0	Yes
21	Ohio State University Wexner Medical Center, Columbus	71.1	10	5	2	2	2	2	587	2.1	Yes	4	8	1	2.6	Yes
21	UT Southwestern Medical Center, Dallas	71.1	10	5	2	2	2	2	336	2.3	Yes	4	8	1	2.9	Yes
23	Abbott Northwestern Hospital, Minneapolis	70.7	10 10	5 3	2	2	2	2	422	2.4	Yes	4	8 8	1	0.0	Yes
24 25	Tampa General Hospital VCU Medical Center, Richmond, Va.	70.6 70.5	10	5	2	2	2	2	440 188	2.1	Yes Yes	4	8	1 1	0.0	Yes Yes
26	MedStar Georgetown University Hospital, Washington, D.C.	70.3	10	5	2	2	2	2	135	1.1	Yes	4	8	1	0.5	Yes
27	Brigham and Women's Hospital, Boston	70.1	9	5	2	2	2	2	433	2.3	Yes	4	8	Ō	10.5	Yes
28	University of Alabama at Birmingham Hospital	70.0	10	6	2	2	2	3	441	1.8	Yes	4	8	1	1.0	Yes
28	West Virginia University Hospitals, Morgantown, W.Va.	70.0	10	6	2	3	2	2	276	2.8	Yes	4	8	1	0.4	Yes
30	Indiana University Health Academic Health Center, Indianapolis	69.5	10	5	2	2	2	2	386	2.0	Yes	4	8	1	0.2	Yes
31	Mayo Clinic-Phoenix	69.1	9	6	3	2	2	2	362	2.9	Yes	4	8	1	1.1	Yes
31	Sentara Norfolk General Hospital, Norfolk, Va.	69.1	10	5 5	2	2	2	2	244	1.6	Yes	4	8	1	1.2	Yes
33	University of Kentucky Albert B. Chandler Hospital, Lexington Yale-New Haven Hospital, New Haven, Conn.	69.0 68.5	10 8	4	2	2 1	2	2	216 812	1.9 2.0	Yes Yes	4	8 8	1 1	0.1 5.6	Yes Yes
35	Bon Secours St. Francis Hospital, Charleston, S.C.	68.4	10	5	2	2	2	2	129	1.4	Yes	4	8	1	0.0	Yes
36	Mount Sinai Hospital, New York	68.0	8	6	2	3	2	2	617	1.9	Yes	4	8	1	5.1	Yes
37	Orange Coast Memorial Medical Center, Fountain Valley, Calif.	67.6	10	5	2	2	2	2	137	2.2	Yes	4	8	1	0.0	Yes
38	University of Maryland Medical Center, Baltimore	67.3	10	3	1	2	1	2	172	2.9	Yes	4	8	1	0.6	Yes
39	Montefiore Medical Center, Bronx, N.Y.	66.9	9	4	2	1	2	2	1,154	2.3	Yes	4	8	0	1.4	Yes
39	OHSU Hospital, Portland, Ore.	66.9	9	5	2	2	2	2	251	2.0	Yes	4	8	1	2.9	Yes
39	UF Health Shands Hospital, Gainesville, Fla.	66.9	10	5	2	2	2	2	300	1.9	Yes	4	8	1	0.5	Yes
42	Houston Methodist Hospital University Hospitals Clayeland Medical Conter	66.7	9	5	2	2	2	2	583	2.0	Yes	4	8	1	0.3	Yes
42	University Hospitals Cleveland Medical Center Penn Medicine Chester County Hospital, West Chester, Pa.	66.7 66.4	9 10	5 5	2	2	2	2	394 164	2.6 1.8	Yes Yes	4	8 8	1 1	0.8	Yes Yes
45	Queen's Medical Center, Honolulu	66.3	10	4	1	2	2	2	382	1.7	Yes	4	8	1	0.0	Yes
46	Providence Little Company of Mary Medical Center Torrance, Calif.	66.0	10	5	2	2	2	2	246	2.8	Yes	4	8	1	0.0	Yes
47	NYU Langone Hospitals, New York, N.Y.	65.9	8	5	2	2	2	2	633	2.3	Yes	4	8	1	2.9	Yes
48	University of California, Davis Medical Center, Sacramento	65.8	9	5	2	2	2	2	318	2.8	Yes	4	8	1	0.2	Yes
49	Flagler Hospital, St. Augustine, Fla.	65.4	10	5	2	2	2	2	213	1.6	Yes	3	7	1	0.0	Yes
49	Miami Valley Hospital, Dayton, Ohio	65.4	9	5	2	2	2	2	387	2.5	Yes	4	8	1	0.0	Yes

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	Best Hospitals 2018-19:				-	ס		patients							<u>-</u>	ecialty	
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	Hospital	100.0		7	خ تن								8				
2	University of Michigan Hospitals-Michigan Medicine, Ann Arbor Stanford Health Care-Stanford Hospital, Stanford, Calif.	100.0	9 10	5	2	2 2	3 2	3 2	343 322	2.7 2.5	Yes Yes	1 1	8	Yes Yes	1 1	12.0 10.4	Yes Yes
3	University of Iowa Hospitals and Clinics, Iowa City	99.5	10	5	2	2	2	2	214	1.8	Yes	1	8	Yes	1	12.7	Yes
4	Ohio State University Wexner Medical Center, Columbus	97.7	10	5	2	2	2	2	467	2.1	Yes	1	8	Yes	1	6.5	Yes
5	Mayo Clinic, Rochester, Minn. Massachusetts Eye and Ear Infirmary, Mass. General Hosp. Boston	97.3 94.4	8 7	5 5	2	2 2	2 2	2	396 355	2.8 2.4	Yes Yes	1	8	Yes Yes	1 1	12.5 21.2	Yes Yes
7	UCSF Medical Center, San Francisco	93.8	10	6	3	2	2	2	224	2.1	Yes	1	8	Yes	1	7.7	Yes
8	Johns Hopkins Hospital, Baltimore	93.5	7	5	2	2	2	2	195 488	2.1	Yes	1	8	Yes	1	24.3	Yes
9	UCLA Medical Center, Los Angeles University of North Carolina Hospitals, Chapel Hill	91.1	8 10	5	2	2	2 2	2	247	3.0 1.8	Yes Yes	1	8	Yes Yes	1 1	6.4 4.5	Yes Yes
11	Cleveland Clinic	90.4	10	6	2	3	2	2	257	2.1	Yes	1	8	No	1	10.2	Yes
12	MUSC Health-University Medical Center, Charleston, S.C. Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	90.0	9 7	5 6	2	2	2	2	234 432	2.3	Yes Yes	1	8	Yes Yes	1 1	7.6 8.6	Yes Yes
14	University of Texas MD Anderson Cancer Center, Houston	86.6	7	5	2	2	2	2	670	2.0	Yes	1	8	No	1	9.4	Yes
15	Jefferson Health-Thomas Jefferson University Hospitals, Philadelphia	85.5	9	5	2	2	2	2	456	2.2	Yes	1	8	Yes	1	2.6	Yes
16 17	University Hospitals Cleveland Medical Center Memorial Sloan-Kettering Cancer Center, New York	81.9 81.3	9	5 5	2	2	2	2	244 363	2.6	Yes Yes	1 1	8	Yes No	1	1.9 3.3	Yes Yes
18	University of Virginia Medical Center, Charlottesville	80.5	9	5	2	2	2	2	115	2.1	Yes	1	8	Yes	1	3.9	Yes
19	Memorial Hermann-Texas Medical Center, Houston	80.3	10	5	2	2	2	2	81	2.2	Yes	1	8	Yes	1	0.3	Yes
20 21	University of California, Davis Medical Center, Sacramento New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	80.1 79.9	9	5 4	2	2	2	2	183 294	2.8	Yes Yes	1	8	Yes Yes	1 0	1.2 3.2	Yes Yes
22	Barnes-Jewish Hospital, St. Louis	79.8	7	5	2	2	2	2	311	2.2	Yes	1	8	Yes	1	7.0	Yes
23	Henry Ford Hospital, Detroit Rush University Medical Center, Chicago	79.7 79.6	10 10	5 5	2	2 2	2 2	2	130 156	2.1	Yes Yes	1	8	Yes Yes	0	0.7 1.0	Yes
24 25	Ochsner Medical Center, New Orleans	78.8	10	5	2	2	2	2	192	1.9	Yes	1	8	Yes	1	1.0	Yes Yes
25	OHSU Hospital, Portland, Ore.	78.8	8	5	2	2	2	2	318	2.0	Yes	1	8	Yes	1	2.4	Yes
27 28	Yale-New Haven Hospital, New Haven, Conn. Mayo Clinic-Phoenix	78.5 78.0	9 8	6	2	1 2	2 2	2	353 241	2.0	Yes Yes	1 1	8	Yes No	1 1	1.2 2.1	Yes Yes
29	University of Alabama at Birmingham Hospital	77.6	7	6	2	2	2	3	499	1.8	Yes	1	8	Yes	1	2.0	Yes
30	Wake Forest Baptist Medical Center, Winston-Salem, N.C.	77.3	8	5	2	2	2	2	386	1.6	Yes	1	8	Yes	1	2.1	Yes
31	University of Utah Hospital, Salt Lake City UPMC Presbyterian Shadyside, Pittsburgh	77.0 76.3	10 5	5 5	2	2	2 2	2	152 493	1.8 1.9	Yes Yes	1 1	8	Yes Yes	0 1	1.6 9.2	Yes Yes
33	Vanderbilt University Medical Center, Nashville, Tenn.	75.6	4	6	2	3	2	2	359	2.5	Yes	1	8	Yes	1	10.8	Yes
34	University of Cincinnati Medical Center	74.9 74.7	9	5 8	2	2	2	2	256	1.7 2.0	Yes	1	8	Yes	0	5.0	Yes
35	Beaumont Hospital-Troy, Mich. Cedars-Sinai Medical Center, Los Angeles	74.7	8	5	2	2	2	2	120 171	2.6	Yes	1 1	8	Yes Yes	1	0.1	Yes Yes
37	Mount Sinai Hospital, New York	74.2	6	6	2	3	2	2	326	1.9	Yes	1	8	Yes	1	5.7	Yes
37	University of Washington Medical Center, Seattle University of Maryland Medical Center, Baltimore	74.2 74.0	7 8	5 3	2	2	2	2	179 219	2.0	Yes Yes	1	8	No Yes	1	7.0 1.2	Yes Yes
40	Baylor University Medical Center, Dallas	73.8	10	5	2	2	2	2	183	1.5	Yes	1	8	Yes	1	0.6	Yes
41	University of Miami Hospital	73.5	10	4	2	2	2	1	612	1.4	Yes	1	8	Yes	0	1.1	Yes
42	Via Christi Hospital on St. Francis, Wichita, Kan. Strong Memorial Hospital of the Univ. of Rochester, Rochester, N.Y.	72.0 71.5	10 8	5 5	2	2	2	2	73 189	1.8 1.8	Yes Yes	1	6 8	Yes Yes	0	0.0	Yes Yes
44	New York Eye and Ear Infirmary of Mount Sinai, N.Y.	71.3	10	5	2	2	2	2	<11	1.4	Yes	1	8	No	1	1.8	Yes
45	University of Kentucky Albert B. Chandler Hospital, Lexington	71.0	8	5	2	2	2	2	186	1.9	Yes	1	8	Yes	1	0.4	Yes
46	Vidant Medical Center, Greenville, N.C. Froedtert Hospital and the Medical College of Wisconsin, Milwaukee	70.7 69.6	9	6 5	2	3 2	2	2	118 116	2.0 1.8	Yes Yes	1	8	Yes Yes	1 1	0.0 1.1	Yes Yes
47	Reading Hospital, West Reading, Pa.	69.6	10	5	2	2	2	2	109	1.1	Yes	1	4	Yes	1	0.0	Yes
49	Northwestern Memorial Hospital, Chicago	68.9	8	5	2	2	2	2	105	1.8	Yes	1	8	Yes	1	2.1	Yes
50	Porter Adventist Hospital, Denver	68.5	9	3	2	1	1	2	195	1.9	Yes	1	8	No	1	0.4	Yes

No. 1		Best Hospitals 2018-19: Gastroenterology & GI Surgery	lty Score			enting deaths from lications after surgery	nting major bleeding r surgery	enting respiratory rgery	nting harm to patients	ts			logies			Nurse Magnet hospital	hysicians in specialty	responder
2 Cleveland Clinic 89.1 10 6 2 2 3 2 2 5,702 2.1 ves 7 8 No 1 28.3 ves 3 Cedars-Simal Medical Center, Los Angeles 81.3 10 6 1 2 2 2 2 7,702 2.1 ves 7 8 ves 1 10.0 ves 4 Iohns Hopkins Hespital, Baltimore 81.3 10 6 1 2 2 2 2 3,169 2.1 ves 7 8 ves 1 10.0 ves 5 Iohns Hopkins Hespital, Baltimore 81.3 10 6 1 2 2 2 2 3,169 2.1 ves 7 8 ves 1 10.0 ves 6 Iohns Hopkins Hespital, Baltimore 81.3 10 6 1 2 2 2 3,169 2.1 ves 7 8 ves 1 10.0 ves 7 Iohns Hopkins Hespital, Baltimore 81.3 10 6 1 2 2 2 3 3 3,189 2.1 ves 7 8 ves 1 10.0 ves 7 Iohns Hopkins Hespital, Boston 7 2 2 2 2 3 3 3,189 2.1 ves 7 8 ves 1 10.0 ves 8 Iohns Hopkins Hespital, Boston 7 2 2 2 2 4,019 3.0 ves 7 8 ves 1 10.7 ves 9 Mount Sinal Hospital, New York 7 25 5 8 ves 1 10.7 ves 10 Hospital, Baltimore 7 8 ves 1 10.2 ves 7 8 ves 1 10.7 ves 11 Hospital, Of the Univ. of Pennsylvania – Penn Presbyterian, Philadelphia 7 10 8 ves 7 8 ves 1 10.7 ves 12 Mayo Clinic Jacksonville, Fla. 7 10 6 2 2 2 2 2 3 2 3 2,324 2.1 ves 7 8 ves 1 10.7 ves 13 Scripps La Jolla Hospitals, La Jolla, Calif. 7 10 6 2 2 2 2 2 3 2 3 2,324 2.1 ves 7 8 ves 1 10.6 ves ves 1 10.0 ves ves 1 10.0 ves ves 1 10.0 ves ves 1 10.0 ves ves ves ves 1 10.0 ves ves ves ves ves 1 10.0 ves ves			U.S. News	30-day	Patient	Success in treatable c	Success in and bruisin	Success in prev failure after su	Success in during surg	Number of	Nurse			Patient	Trauma	Recognized as		Current AHA
3 Cedars-Sinal Medical Center, Los Angeles 81.2 10 4 1 2 2 2 2 7,176 2,6 Ves 7 8 Ves 1 9,0 Ves 6 Mayor Clinic Photonix Bulling Prophysin Hospitals, Baltimore 81.2 10 4 1 2 2 2 3,150 6 2.1 Ves 7 8 Ves 1 19,0 Ves 5 Mayor Clinic Photonix Bulling Prophysin Hospitals, Michigan Medicine, Ann Arbor 78.6 10 6 7 3 2 2 2 3,150 2.9 Ves 7 8 Na 1 5.6 Ves 7 8 Ves 1 1,0 Ves 8 Ves 1 1,0 Ves 1 8 Massachusetts General Hospital, Boston 74.2 7 5 2 2 2 2 4,958 2.4 Ves 7 8 Ves 1 1,0 Ves 1 1,																		
A Johns Hopkins Hospitals Baltimore																		
Section Sect																		
6 University of Michigan Hospitals-Michigan Medicine, Ann Arbor 76.6 10 7 2 2 2 3 3 3,874 2.7 Yes 7 8 Yes 1 7.5 Yes 8 UCLA Medical Center, to Sangeles 75.3 9 5 2 2 2 2 4,019 3.0 Yes 7 8 Yes 1 10.7 Yes 8 Wes 1 10.7 Yes 8 Wes 1 10.7 Yes Y																		
7 UCLA Medical Center, Los Angeles																		
9 Mount Sinal Hospital, New York 10 UPMC Presbyterian Shadyside, Pittsburgh 17.5.1 8 6 2 3 2 2 4,615 1.9 Yes 7 8 Yes 1 1.0 9 Yes 11 Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia 71.0 8 6 2 3 2 2 3,995 2.4 Yes 7 8 Yes 1 6.9 Yes 11 Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia 71.0 8 6 2 3 2 2 3,995 2.4 Yes 7 8 Yes 1 7.7 Yes 13 Scripps La Jolia Hospitals, La Jolia, Calif. 10 11 6 2 3 2 2 2,764 3.1 Yes 7 8 No 1 5.2 Yes 13 Scripps La Jolia Hospitals, La Jolia, Calif. 11 Hosps. of Herbdist Hespital 12 Hosps. of Herbdist Hespital 13 Hosps. of Herbdist Hespital 14 Hosps. of Herbdist Hespital 15 Hosps. of Herbdist Hespital 15 Hosps. of Herbdist Hespital 16 Hosps. of Herbdist Hespital 16 Hosps. of Herbdist Hespital 17 Hosps. of Herbdist Hespital 18 Hosps. of Herbdist Hespital 18 Hosps. of Herbdist Hespital 19 Hosps. of Herbdist Hespital 20 Horestive Hospital, Cleveland 20 Horestive Hospital 21 Hosps. of Herbdist Hespital 22 Horizontal Hespital 23 Hosps. of Herbdist Hespital 24 Hosps. of Herbdist Hespital 25 Hosps. of Herbdist Hespital 26 Hosps. of Herbdist Hespital 27 Hosps. of Herbdist Hespital 28 Hosps. of Herbdist Hespital 28 Hosps. of Herbdist Hespital 29 Horestive Hospital 20 Horesti	7		75.3	9				2	2	4,019	3.0	Yes	7	8	Yes	1		Yes
10 Limbor Presbyterian Shadyside, Pittsburgh 72.5 9 5 2 2 2 6,986 1.9 Yes 7 8 Yes 1 6.9 Yes 1 Hosps, of the Univ. of Pennsylvania Penn Presbyterian, Philadelphia 71.0 8 6 2 3 2 2 3.959 2.4 Yes 7 8 Yes 1 7.7 Yes 1 1 Yes 7 8 Yes 1 7.7 Yes 1 1 Yes 7 8 Yes 1 7.7 Yes 1 1 Yes 7 8 Yes 1 7.7 Yes Yes 7 8 Yes 7 8 Yes 1 7.7 Yes 7 8 Yes 7 8 Yes 1 7.7																		Yes
11 Hosps, of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia 71.0 8 6 2 3 2 2 3,995 2.4 Yes 7 8 Yes 1 7.7 Yes 12 Mayor Clinic Jacksonvoille, Fla. 70.1 10 6 2 3 2 2 2,395 2.4 Yes 7 8 No 1 7.7 Yes 13 Scripps La Jolla Hospitals, La Jolla, Calif. 70.1 10 6 2 3 2 2 2,264 3.1 Yes 7 8 Yes 1 0.6 Yes 13 UCSF Medical Center, San Francisco 70.1 10 6 2 3 2 2 2,264 3.1 Yes 7 8 Yes 1 0.5 Yes 14 Houston Herbeitsk Hospital Floridation of the Common Program of the																		
Mayo Clinic Jacksonville, Fla.																		
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19 Banner University Medical Center Phoenix 78.7 10 5 2 2 2 2 7,863 2.3 Yes 9 1 Yes 0.5 Yes 2 0 Cedars-Sinai Medical Center, Los Angeles 78.5 10 5 2 2 2 2 2 37,049 2.6 Yes 8 1 No 1.3 Yes 21 University of California, Davis Medical Center, Sacramento 78.3 10 5 2 2 2 2 2 10,832 2.8 Yes 9 1 Yes 0.6 Yes 22 University of Washington Medical Center, Seattle 78.1 10 5 2 2 2 2 2 4,920 2.0 Yes 9 1 Yes 0.6 Yes 23 University of Kansas Hospital, Kansas City 77.9 10 5 2 2 2 2 2 9,595 2.1 Yes 9 1 Yes 0.9 Yes 23 Yale-New Haven Hospital, New Haven, Conn. 77.9 8 4 2 1 2 2 30,662 2.0 Yes 9 1 Yes 5.4 Yes 25 Stanford Health Care-Stanford Hospital, Stanford, Calif. 76.1 10 5 2 2 2 2 2 13,968 2.5 Yes 9 1 Yes 1.3 Yes 26 Mayo Clinic Jacksonville, Fla. 75.3 10 6 2 2 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 27 University of Wisconsin Hospitals, Madison 74.8 10 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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21 University of California, Davis Medical Center, Sacramento 78.3 10 5 2 2 2 2 10,832 2.8 Yes 9 1 Yes 0.6 Yes 22 University of Washington Medical Center, Seattle 78.1 10 5 2 2 2 2 4,920 2.0 Yes 9 1 Yes 2.0 Yes 23 University of Kansas Hospital, Kansas City 77.9 10 5 2 2 2 2 9,595 2.1 Yes 9 1 Yes 0.9 Yes 23 Yale-New Haven Hospital, New Haven, Conn. 77.9 8 4 2 1 2 2 30,662 2.0 Yes 9 1 Yes 5.4 Yes 25 Stanford Health Care-Stanford Hospital, Stanford, Calif. 76.1 10 5 2 2 2 2 30,662 2.0 Yes 9 1 Yes 5.4 Yes 26 Mayo Clinic Jacksonville, Fla. 75.3 10 6 2 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 27 University of Wisconsin Hospitals, Madison 74.8 10 5 2 2 2 2 9,494 2.1 Yes 9 1 Yes 2.5 Yes 28 Indiana University Health Academic Health Center, Indianapolis 74.6 10 5 2 2 2 2 2 12,368 2.0 Yes 9 1 Yes 2.0 Yes 29 Houston Methodist Hospital Royal Oak, Mich. 73.8 10 6 2 2 2 2 2 2 2 2 2,21,216 2.0 Yes 9 1 No 1.1 Yes 30 Beaumont Hospital-Royal Oak, Mich. 73.8 10 6 2 2 2 2 2 2 2 2,7,743 1.6 Yes 9 1 Yes 3.7 Yes 31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 73.5 9 5 2 2 2 2 2 10,426 1.9 Yes 9 1 Yes 1.2 Yes 32 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore.
22 University of Washington Medical Center, Seattle 78.1 10 5 2 2 2 2 4,920 2.0 Yes 9 1 Yes 2.0 Yes 23 University of Kansas Hospital, Kansas City 77.9 10 5 2 2 2 2 2 9,595 2.1 Yes 9 1 Yes 0.9 Yes 23 Yale-New Haven Hospital, New Haven, Conn. 77.9 10 5 2 2 2 2 2 9,595 2.1 Yes 9 1 Yes 0.9 Yes 25 Stanford Health Care-Stanford Hospital, Stanford, Calif. 76.1 10 5 2 2 2 2 13,968 2.5 Yes 9 1 Yes 1.3 Yes 26 Mayo Clinic Jacksonville, Fla. 77.9 10 5 2 2 2 2 13,968 2.5 Yes 9 1 Yes 1.3 Yes 26 Mayo Clinic Jacksonville, Fla. 77.9 10 5 2 2 2 2 2 13,968 2.5 Yes 9 1 Yes 2.5 Yes 27 University of Wisconsin Hospitals, Madison 78.1 10 5 2 2 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 28 Indiana University Health Academic Health Center, Indianapolis 78.1 10 5 2 2 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 28 Indiana University Health Academic Health Center, Indianapolis 78.1 10 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
23 University of Kansas Hospital, Kansas City 77.9 10 5 2 2 2 2 9,595 2.1 Yes 9 1 Yes 0.9 Yes 23 Yale-New Haven Hospital, New Haven, Conn. 77.9 8 4 2 1 2 2 30,662 2.0 Yes 9 1 Yes 5.4 Yes 25 Stanford Health Care-Stanford Hospital, Stanford, Calif. 76.1 10 5 2 2 2 2 13,968 2.5 Yes 9 1 Yes 1.3 Yes 26 Mayo Clinic Jacksonville, Fla. 27 University of Wisconsin Hospitals, Madison 74.8 10 5 2 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 28 Indiana University Health Academic Health Center, Indianapolis 74.6 10 5 2 2 2 2 9,494 2.1 Yes 9 1 Yes 2.0 Yes 29 Houston Methodist Hospital 74.6 10 5 2 2 2 2 2 12,368 2.0 Yes 9 1 Yes 1.9 Yes 29 Houston Methodist Hospital 74.2 10 5 2 2 2 2 2 12,16 2.0 Yes 9 1 No 0.9 Yes 30 Beaumont Hospital-Royal Oak, Mich. 73.8 10 6 2 2 3 3 2 33,094 1.9 Yes 9 1 No 1.1 Yes 31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 73.5 9 5 2 2 2 2 17,743 1.6 Yes 9 1 Yes 3.7 Yes 32 UF Health Shands Hospital, Gainesville, Fla. 72.4 9 5 2 2 2 2 9,700 1.9 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore. 71.3 10 5 2 2 2 2 2 7,984 2.0 Yes 9 1 Yes 0.3 Yes
23 Yale-New Haven Hospital, New Haven, Conn. 77.9 8 4 2 1 2 2 30,662 2.0 Yes 9 1 Yes 5.4 Yes 25 Stanford Health Care-Stanford Hospital, Stanford, Calif. 76.1 10 5 2 2 2 2 13,968 2.5 Yes 9 1 Yes 1.3 Yes 26 Mayo Clinic Jacksonville, Fla. 75.3 10 6 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 27 University of Wisconsin Hospitals, Madison 74.8 10 5 2 2 2 9,494 2.1 Yes 9 1 Yes 2.5 Yes 28 Indiana University Health Academic Health Center, Indianapolis 74.6 10 5 2 2 2 2 12,7268 2.0 Yes 9 1 Yes 1.9 Yes 1.9 Yes 1.9 Yes 1.9 Yes 1.9 Yes 1.9 Yes <
25 Stanford Health Care-Stanford Hospital, Stanford, Calif. 76.1 10 5 2 2 2 2 13,968 2.5 Yes 9 1 Yes 1.3 Yes 26 Mayo Clinic Jacksonville, Fla. 75.3 10 6 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 27 University of Wisconsin Hospitals, Madison 74.8 10 5 2 2 2 2 9,494 2.1 Yes 9 1 Yes 2.0 Yes 28 Indiana University Health Academic Health Center, Indianapolis 74.6 10 5 2 2 2 2 12,368 2.0 Yes 9 1 Yes 1.9 Yes 29 Houston Methodist Hospital 74.2 10 5 2 2 2 2 1,216 2.0 Yes 9 1 No 0.9 Yes 30 Beaumont Hospital-Royal Oak, Mich. 73.8 10 6 2 2 3 3 2 33,094 1.9 Yes 9 1 No 1.1 Yes 31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 73.5 9 5 2 2 2 2 2 10,743 1.6 Yes 9 1 Yes 3.7 Yes 32 UF Health Shands Hospital, Gainesville, Fla. 72.4 9 5 2 2 2 2 10,745 1.6 Yes 9 1 Yes 1.2 Yes 33 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore.
26 Mayo Clinic Jacksonville, Fla. 75.3 10 6 2 2 2 3 8,379 2.1 Yes 9 1 Yes 2.5 Yes 27 University of Wisconsin Hospitals, Madison 74.8 10 5 2 2 2 2 9,494 2.1 Yes 9 1 Yes 2.0 Yes 28 Indiana University Health Academic Health Center, Indianapolis 74.6 10 5 2 2 2 2 2 12,368 2.0 Yes 9 1 Yes 1.9 Yes 2.9 Houston Methodist Hospital 74.2 10 5 2 2 2 2 21,216 2.0 Yes 9 1 No 0.9 Yes 30 Beaumont Hospital-Royal Oak, Mich. 73.8 10 6 2 2 2 3 3,094 1.9 Yes 9 1 No 1.1 Yes 31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 73.5 9 5 2 2 2 2 17,743 1.6 Yes 9 1 Yes 3.7 Yes 32 UF Health Shands Hospital, Gainesville, Fla. 72.4 9 5 2 2 2 2 10,426 1.9 Yes 9 1 Yes 1.2 Yes 33 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore.
28 Indiana Úniversity Health Academic Health Center, Indianapolis 74.6 10 5 2 2 2 12,368 2.0 Yes 9 1 Yes 1.9 Yes 29 Houston Methodist Hospital 74.2 10 5 2 2 2 2 21,216 2.0 Yes 9 1 No 0.9 Yes 30 Beaumont Hospital-Royal Oak, Mich. 73.8 10 6 2 2 3 3 2 33,094 1.9 Yes 9 1 No 1.1 Yes 31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 73.5 9 5 2 2 2 2 17,743 1.6 Yes 9 1 Yes 3.7 Yes 32 UF Health Shands Hospital, Gainesville, Fla. 72.4 9 5 2 2 2 2 10,426 1.9 Yes 9 1 Yes 1.2 Yes 33 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 2 9,700 1.9 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore. 71.3 10 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 0.3 Yes
29 Houston Methodist Hospital 74.2 10 5 2 2 2 21,216 2.0 Yes 9 1 No 0.9 Yes 30 Beaumont Hospital-Royal Oak, Mich. 73.8 10 6 2 2 3 2 33,094 1.9 Yes 9 1 No 1.1 Yes 31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 73.5 9 5 2 2 2 17,743 1.6 Yes 9 1 Yes 3.7 Yes 32 UF Health Shands Hospital, Gainesville, Fla. 72.4 9 5 2 2 2 2 2 1.9 Yes 9 1 Yes 1.2 Yes 33 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 2 9,700 1.9 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore. 71.3 10 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 0.3
30 Beaumont Hospital-Royal Oak, Mich. 31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 32 UF Health Shands Hospital, Gainesville, Fla. 33 Emory University Hospital at Wesley Woods, Atlanta 34 OHSU Hospital, Portland, Ore. 37 Sequence of the seq
31 Wake Forest Baptist Medical Center, Winston-Salem, N.C. 73.5 9 5 2 2 2 17,743 1.6 Yes 9 1 Yes 3.7 Yes 32 UF Health Shands Hospital, Gainesville, Fla. 72.4 9 5 2 2 2 2 10,426 1.9 Yes 9 1 Yes 1.2 Yes 33 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 2 9,700 1.9 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore. 71.3 10 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 0.3 Yes
32 UF Health Shands Hospital, Gainesville, Fla. 72.4 9 5 2 2 2 10,426 1.9 Yes 9 1 Yes 1.2 Yes 33 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 2 9,700 1.9 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore. 71.3 10 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 0.3 Yes
33 Emory University Hospital at Wesley Woods, Atlanta 71.8 9 5 2 2 2 9,700 1.9 Yes 9 1 Yes 1.8 Yes 34 OHSU Hospital, Portland, Ore. 71.3 10 5 2 2 2 2 7,984 2.0 Yes 9 1 Yes 0.3 Yes
2F Covinne La Jolla Hagnitale La Jolla Calif
36 UC San Diego Health-UC San Diego Medical Center, Calif. 70.6 9 5 2 2 2 9,433 2.0 Yes 9 1 Yes 0.6 Yes 37 University of Colorado Hospital, Aurora 70.5 10 5 2 2 2 11.546 1.9 Yes 9 1 No 1.7 Yes
37 University of Colorado Hospital, Aurora 70.5 10 5 2 2 2 11,546 1.9 Yes 9 1 No 1.7 Yes 38 Abbott Northwestern Hospital, Minneapolis 70.2 10 5 2 2 2 24,574 2.4 Yes 9 1 No 0.0 Yes
39 Duke University Hospital, Durham, N.C. 70.1 8 6 2 3 2 2 12,194 2.1 Yes 9 1 No 9.5 Yes
40 Jefferson Health-Thomas Jefferson University Hospitals, Philadelphia 69.8 10 5 2 2 2 16,927 2.2 Yes 9 1 No 3.1 Yes
40 University Hospitals Cleveland Medical Center 69.8 10 5 2 2 2 11,146 2.6 Yes 9 1 No 0.7 Yes
42 University of Alabama at Birmingham Hospital 69.1 10 6 2 2 2 3 14,077 1.8 Yes 8 1 No 3.7 Yes
43 Brigham and Women's Hospital, Boston 69.0 10 5 2 2 2 14,618 2.3 Yes 9 0 Yes 0.7 Yes
44 St. Cloud Hospital, St. Cloud, Minn. 68.8 10 5 2 2 2 24,112 2.2 Yes 8 1 No 0.0 Yes 45 Cloud Hospital, Clo
45 Cleveland Clinic Fairview Hospital, Cleveland 67.9 10 6 3 2 2 11,106 1.9 Yes 9 1 No 0.1 Yes 46 Beth Israel Deaconess Medical Center, Boston 67.7 9 5 2 2 2 13,948 1.6 Yes 9 0 Yes 3.1 Yes
46 DMC Harper University Hospital, Detroit 67.7 10 5 2 2 2 5,413 1.7 Yes 8 1 No 0.0 Yes
46 Ohio State University Wexner Medical Center, Columbus 67.7 10 5 2 2 2 2 15,115 2.1 Yes 9 1 No 0.5 Yes
49 Hoag Memorial Hospital Presbyterian, Newport Beach, Calif. 66.7 9 7 3 3 2 2 24,646 2.4 Yes 9 1 No 0.0 Yes
50 Aurora St. Luke's Medical Center, Milwaukee 66.3 10 3 2 1 1 2 23,212 2.2 Yes 9 1 No 0.7 Yes

	Best Hospitals 2018-19: Gynecology				from surgery	bleeding	>	patients						spital	specialty	
Rank	Hospital	U.S. News Specialty Score	30-day survival	Patient safety	Success in preventing deaths treatable complications after	Success in preventing major and bruising after surgery	Success in preventing respiratory failure after surgery	Success in preventing harm to during surgery	Number of patients	Nurse staffing	Intensivists	Advanced technologies	Patient services	Recognized as Nurse Magnet hospital	Reputation with physicians in	Current AHA responder
1	Mayo Clinic, Rochester, Minn.	100.0	10	5	2	2	2	2	475	2.8	Yes	5	9	1	13.5	Yes
3	University of Michigan Hospitals-Michigan Medicine, Ann Arbor Memorial Sloan-Kettering Cancer Center, New York	87.0 86.6	10 9	7 5	2	2	3	3 2	197 642	2.7	Yes Yes	5 5	9	1 1	4.4 7.1	Yes Yes
4	Johns Hopkins Hospital, Baltimore	84.2	10	4	1	2	2	2	146	2.1	Yes	5	9	1	10.1	Yes
5	Cleveland Clinic	83.8	9	6	2	3	2	2	239	2.1	Yes	5	9	1	10.4	Yes
6	UCSF Medical Center, San Francisco	81.8	10	6	3	2	2	2	155	2.1	Yes	5	9	1	8.2	Yes
7	Stanford Health Care-Stanford Hospital, Stanford, Calif.	81.5	10	5	2	2	2	2	192	2.5	Yes	5	9	1	3.4	Yes
8	Vanderbilt University Medical Center, Nashville, Tenn.	79.0	10	6	2	3	2	2	127	2.5	Yes	5	9	1	2.8	Yes
9	Massachusetts General Hospital, Boston	77.2	9	5	2	2	2	2	288	2.4	Yes	5	9	1	4.8	Yes
10	University of Wisconsin Hospitals, Madison Scripps La Jolla Hospitals, La Jolla, Calif.	77.0 76.4	10 10	5 6	2	2	2	2	344 162	2.1 3.1	Yes Yes	5 5	9	1 1	0.5 1.2	Yes Yes
12	Barnes-Jewish Hospital, St. Louis	75.9	8	5	2	2	2	2	561	2.2	Yes	5	9	1	3.6	Yes
13	Northwestern Memorial Hospital, Chicago	75.6	10	5	2	2	2	2	96	1.8	Yes	5	9	1	5.9	Yes
14	Medical City Dallas	75.3	10	6	2	3	2	2	130	2.0	Yes	5	8	1	0.1	Yes
14	Pennsylvania Hospital, Philadelphia	75.3	10	5	2	2	2	2	87	1.8	Yes	5	9	1	0.7	Yes
14	University of California, Davis Medical Center, Sacramento	75.3	9	5	2	2	2	2	244	2.8	Yes	5	9	1	1.0	Yes
17	Brigham and Women's Hospital, Boston	75.1	9 10	5 5	2	2	2	2	326 222	2.3	Yes	5 5	9	0 1	12.8 0.5	Yes
18	MUSC Health-University Medical Center, Charleston, S.C. St. Joseph's Hospital and Medical Center, Phoenix	75.0 74.8	10	6	3	2	2	2	140	2.3	Yes Yes	5	8	0	0.5	Yes Yes
20	UC Irvine Medical Center, Orange, Calif.	74.4	10	5	2	2	2	2	190	2.1	Yes	5	8	1	1.6	Yes
20	United Hospital, St. Paul, Minn.	74.4	10	6	2	3	2	2	128	2.4	Yes	5	7	0	0.1	Yes
22	Nebraska Medicine-Nebraska Medical Center, Omaha	73.9	10	5	2	2	2	2	84	2.2	Yes	5	9	1	0.7	Yes
23	Cedars-Sinai Medical Center, Los Angeles	73.8	9	5	2	2	2	2	331	2.6	Yes	5	9	1	2.9	Yes
24	Mount Sinai Hospital, New York	73.7	9	6	2	3	2	2	275	1.9	Yes	5	9	1	2.8	Yes
25 25	University Hospitals Cleveland Medical Center University of Alabama at Birmingham Hospital	73.1 73.1	9 8	5 6	2	2	2	2	264 470	2.6 1.8	Yes Yes	5 5	9	1 1	1.6 3.1	Yes Yes
27	Abbott Northwestern Hospital, Minneapolis	73.1	9	5	2	2	2	2	321	2.4	Yes	5	9	1	0.1	Yes
28	Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	72.7	9	6	2	3	2	2	195	2.4	Yes	5	9	1	3.1	Yes
29	Aurora St. Luke's Medical Center, Milwaukee	72.6	10	3	2	1	1	2	196	2.2	Yes	5	9	1	0.4	Yes
30	Loma Linda University Medical Center, Loma Linda, Calif.	72.4	10	5	2	2	2	2	124	2.6	Yes	5	8	0	0.3	Yes
30	University of Colorado Hospital, Aurora	72.4	9	5	2	2	2	2	271	1.9	Yes	5	9	1	1.5	Yes
32	University of Utah Hospital, Salt Lake City Huntington Memorial Hospital, Pasadena, Calif.	72.1 71.9	10 10	5 6	2	2	2	2	145 104	1.8 2.6	Yes Yes	5 4	9	0 1	1.6 0.7	Yes Yes
34	Mayo Clinic Jacksonville, Fla.	71.8	10	6	2	2	2	3	95	2.1	Yes	5	8	1	0.9	Yes
35	Keck Hospital of USC, Los Angeles	71.4	10	6	2	3	2	2	69	2.4	Yes	5	9	Ō	1.6	Yes
36	Banner University Medical Center Tucson, Ariz.	71.0	10	4	2	2	2	1	163	2.0	Yes	5	8	1	0.0	Yes
36	Rush University Medical Center, Chicago	71.0	9	5	2	2	2	2	266	2.2	Yes	5	9	1	0.4	Yes
38	West Virginia University Hospitals, Morgantown, W.Va.	70.9	10	6	2	3	2	2	77	2.8	Yes	5	9	1	0.0	Yes
39 40	Avera McKennan Hospital and Univ. Health Center, Sioux Falls, S.D. H. Lee Moffitt Cancer Center and Research Institute, Tampa	70.7 70.4	10 10	5 4	2	2	2	2 1	179 300	1.2 1.2	Yes Yes	5 5	8 8	1 1	0.1	Yes Yes
41	John Muir Health-Walnut Creek Medical Center, Walnut Creek, Calif.	70.4	9	5	2	2	2	2	283	2.3	Yes	5	8	1	0.1	Yes
42	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	69.8	8	4	2	1	2	2	308	2.9	Yes	5	9	Ō	7.6	Yes
43	Swedish Medical Center, Englewood, Colo.	69.7	10	5	2	2	2	2	280	1.8	Yes	5	9	0	0.1	Yes
44	St. Luke's Hospital of Kansas City, Mo.	69.6	10	5	2	2	2	2	144	1.6	Yes	5	8	1	0.1	Yes
45	Highland Hospital, Rochester N.Y.	68.9	10	5	2	2	2	2	159	1.4	Yes	5	9	1	0.0	Yes
45	University of North Carolina Hospitals, Chapel Hill	68.9	8	5	2	2	2	2	247	1.8	Yes	5	9	1	4.8	Yes
47 47	Dartmouth-Hitchcock Medical Center, Lebanon, N.H. University of Washington Medical Center, Seattle	68.7 68.7	10 9	5 5	2	2	2	2	135 214	1.7 2.0	Yes Yes	5 5	9	0	0.0 1.9	Yes Yes
49	Wake Forest Baptist Medical Center, Winston-Salem, N.C.	68.4	9	5	2	2	2	2	267	1.6	Yes	5	9	1 1	1.9	Yes
50	University of Iowa Hospitals and Clinics, Iowa City	67.9	9	5	2	2	2	2	251	1.8	Yes	5	9	1	1.5	Yes
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	Best Hospitals 2018-19: Nephrology	y Score			ing deaths from tions after surgery	ting major bleeding surgery	ing respiratory y	ing harm to patients				gies			se Magnet hospital	ysicians in specialty	nder
Rank	Hospital	U.S. News Specialty	30-day survival	Patient safety	Success in preventing treatable complication	Success in preventing and bruising after sur	Success in preventing failure after surgery	Success in preventing during surgery	Number of patients	Nurse staffing	Intensivists	Advanced technologies	Patient services	Trauma center	Recognized as Nurse	Reputation with physicians	Current AHA responder
1	Mayo Clinic, Rochester, Minn.	100.0	10	5	2	2	2	2	2,122	2.8	Yes	7	8	Yes	1	23.4	Yes
2	Cleveland Clinic	93.6	10	6	2	3	2	2	2,056	2.1	Yes	7	8	No	1	18.0	Yes
3	Johns Hopkins Hospital, Baltimore	93.4	10	4	1	2	2	2	1,123	2.1	Yes	7	8	Yes	1	15.2	Yes
5	UCLA Medical Center, Los Angeles	91.3 88.6	10 10	6 5	3	2	2	2	1,011	2.1	Yes Yes	7	8	Yes Yes	1 1	9.3 7.6	Yes Yes
6	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	86.2	9	4	2	1	2	2	3,073	2.9	Yes	7	8	Yes	0	17.7	Yes
7	Vanderbilt University Medical Center, Nashville, Tenn.	85.1	10	6	2	3	2	2	1,497	2.5	Yes	7	8	Yes	1	9.8	Yes
8	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	83.8	10	7	2	2	3	3	1,238	2.7	Yes	7	8	Yes	1	3.6	Yes
9	Massachusetts General Hospital, Boston	83.6	9	5	2	2	2	2	1,514	2.4	Yes	7	8	Yes	1	11.2	Yes
10	Stanford Health Care-Stanford Hospital, Stanford, Calif.	82.4	10	5	2	2	2	2	950	2.5	Yes	7	8	Yes	1	5.4	Yes
11	Mayo Clinic-Phoenix	81.2	10	6	3	2	2	2	1,443	2.9	Yes	7	8	No	1	2.2	Yes
12	Cedars-Sinai Medical Center, Los Angeles	80.6	10	5	2	2	2	2	2,212	2.6	Yes	7	8	Yes	1	3.0	Yes
13	University of Alabama at Birmingham Hospital	80.2	10	6	2	2	2	3	1,257	1.8	Yes	7	8	Yes	1	6.2	Yes
14	Barnes-Jewish Hospital, St. Louis	79.9	10 10	5 6	2	2	2	2	1,906	2.2	Yes	7	8	Yes	1 1	5.5	Yes
14 16	Mount Sinai Hospital, New York Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	79.9 79.7	9	6	2	3	2	2	1,472 1,195	1.9 2.4	Yes Yes	7	8	Yes Yes	1	5.1 7.6	Yes Yes
16	University of California, Davis Medical Center, Sacramento	79.7	10	5	2	2	2	2	1,157	2.8	Yes	7	8	Yes	1	1.4	Yes
18	Tampa General Hospital	79.4	10	3	1	1	2	2	1,502	2.1	Yes	7	8	Yes	1	1.3	Yes
19	Duke University Hospital, Durham, N.C.	79.2	9	6	2	3	2	2	1,114	2.1	Yes	7	8	Yes	1	6.7	Yes
20	University Hospitals Cleveland Medical Center	78.7	10	5	2	2	2	2	844	2.6	Yes	7	8	Yes	1	1.6	Yes
21	University of Colorado Hospital, Aurora	78.4	10	5	2	2	2	2	1,155	1.9	Yes	7	8	Yes	1	2.2	Yes
22	Ohio State University Wexner Medical Center, Columbus	77.5	10	5	2	2	2	2	1,665	2.1	Yes	7	8	Yes	1	2.9	Yes
23	Indiana University Health Academic Health Center, Indianapolis	77.1	10	5	2	2	2	2	1,631	2.0	Yes	7	8	Yes	1	2.2	Yes
23	OHSU Hospital, Portland, Ore.	77.1	10	5 5	2	2	2	2	647	2.0	Yes	7	8	Yes	1	0.5	Yes
25 26	UT Southwestern Medical Center, Dallas University of North Carolina Hospitals, Chapel Hill	76.8 76.0	10 9	5	2	2	2	2	1,141 902	2.3 1.8	Yes Yes	7	8	No Yes	1 1	2.0 5.3	Yes Yes
27	UF Health Shands Hospital, Gainesville, Fla.	75.9	10	5	2	2	2	2	1,131	1.9	Yes	7	8	Yes	1	1.9	Yes
28	Brigham and Women's Hospital, Boston	75.5	8	5	2	2	2	2	1,095	2.3	Yes	7	8	Yes	Ō	13.8	Yes
28	NYU Langone Hospitals, New York, N.Y.	75.5	10	5	2	2	2	2	1,528	2.3	Yes	7	8	Yes	1	1.5	Yes
30	University of Wisconsin Hospitals, Madison	75.1	10	5	2	2	2	2	950	2.1	Yes	7	8	Yes	1	0.4	Yes
31	Yale-New Haven Hospital, New Haven, Conn.	74.6	9	4	2	1	2	2	2,500	2.0	Yes	7	8	Yes	1	3.3	Yes
32	Banner University Medical Center Phoenix	74.5	10	5	2	2	2	2	604	2.3	Yes	7	8	Yes	1	0.4	Yes
32	VCU Medical Center, Richmond, Va.	74.5	10	5 5	2	2	2	2	562	2.4	Yes	7	8	Yes	1	0.4	Yes
34	Rush University Medical Center, Chicago Houston Methodist Hospital	74.3 74.0	10 10	5	2	2	2	2	745 1,640	2.2	Yes Yes	7	8	Yes No	1 1	2.4 1.2	Yes Yes
35	Keck Hospital of USC, Los Angeles	74.0	10	6	2	3	2	2	1,374	2.4	Yes	7	8	Yes	0	0.9	Yes
35	Northwestern Memorial Hospital, Chicago	74.0	9	5	2	2	2	2	1,399	1.8	Yes	7	8	Yes	1	2.7	Yes
38	Wake Forest Baptist Medical Center, Winston-Salem, N.C.	73.7	9	5	2	2	2	2	1,858	1.6	Yes	7	8	Yes	1	3.2	Yes
39	University of Kansas Hospital, Kansas City	73.5	10	5	2	2	2	2	1,210	2.1	Yes	7	8	Yes	1	0.4	Yes
40	Beaumont Hospital-Royal Oak, Mich.	73.3	10	6	2	2	3	2	2,223	1.9	Yes	7	8	Yes	1	0.1	Yes
41	University of Washington Medical Center, Seattle	72.8	10	5	2	2	2	2	668	2.0	Yes	7	8	No	1	3.5	Yes
	University of Virginia Medical Center, Charlottesville	72.5	10	5	2	2	2	2	622	2.1	Yes	7	8	Yes	1	1.1	Yes
43	Jefferson Health-Thomas Jefferson University Hospitals, Philadelphia	72.3	10	5	2	2	2	2	1,251	2.2	Yes	7	8	Yes	1	0.8	Yes
44	Strong Memorial Hospital of the Univ. of Rochester, Rochester, N.Y. DMC Harper University Hospital, Detroit	72.1 71.9	10 10	5 5	2	2	2	2	1,135 806	1.8 1.7	Yes Yes	7	8	Yes No	1 1	0.1	Yes Yes
45	Kaiser Permanente Santa Clara Medical Center, Santa Clara, Calif.	71.9	10	5	2	2	2	2	551	2.5	Yes	6	8	No	0	0.0	Yes
46	MUSC Health-University Medical Center, Charleston, S.C.	71.7	10	5	2	2	2	2	781	2.3	Yes	7	8	Yes	1	0.8	Yes
48	Miami Valley Hospital, Dayton, Ohio	71.5	10	5	2	2	2	2	1,392	2.5	Yes	6	8	Yes	1	0.0	Yes
48	Sentara Norfolk General Hospital, Norfolk, Va.	71.5	10	5	2	2	2	2	870	1.6	Yes	7	8	Yes	1	0.2	Yes
50	Banner University Medical Center Tucson, Ariz.	71.1	10	4	2	2	2	1	543	2.0	Yes	7	7	Yes	1	1.4	Yes
50	Froedtert Hospital and the Medical College of Wisconsin, Milwaukee	71.1	10	5	2	2	2	2	778	1.8	Yes	7	8	Yes	1	1.5	Yes

	Best Hospitals 2018-19:							N.										>-	
	Neurology & Neurosurgery	ialty Score			preventing deaths from omplications after surgery	venting major bleeding 'ter surgery	preventing respiratory r surgery	enting harm to patients	ints			technologies	_		Nurse Magnet hospital	d epilepsy center	Alzheimer's center	physicians in specialty	ponder
	Hospital	U.S. News Specialty	30-day survival	Patient safety	Success in pre treatable com	Success in preamed and bruising af	Success in failure afte	Success in prev during surgery	Number of patients	Nurse staffing	Intensivists	Advanced	Patient services	Trauma center	Recognized as	NAEC-designated	NIA-designated	Reputation with	Current AHA respo
2	Mayo Clinic, Rochester, Minn. Johns Hopkins Hospital, Baltimore	100.0 95.7	10 10	5	2	2	2	2	5,123 2,418	2.8	Yes	5 5	9	Yes	1	Yes	Yes Yes	38.5 27.5	Yes Yes
3	UCSF Medical Center, San Francisco	89.1	9	6	3	2	2	2	2,418	2.1	Yes	5	9	Yes	1	Yes	Yes	21.8	Yes
4	Cleveland Clinic	88.5	10	6	2	3	2	2	3,886	2.1	Yes	5	9	No	1	Yes	No	19.1	Yes
5	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	87.4	10	4	2	1	2	2	6,759	2.9	Yes	5	9	Yes	0	Yes	Yes	18.0	Yes
6	Massachusetts General Hospital, Boston	86.0	6	5	2	2	2	2	4,826	2.4	Yes	5	9	Yes	1	Yes	Yes	25.9	Yes
7	Barnes-Jewish Hospital, St. Louis	82.4	10	5	2	2	2	2	4,713	2.2	Yes	5	9	Yes	1	Yes	Yes	8.4	Yes
8	Northwestern Memorial Hospital, Chicago	81.9	10	5	2	2	2	2	2,330	1.8	Yes	5	9	Yes	1	Yes	Yes	2.4	Yes
9	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	81.1	10	7	2	2	3	3	2,357	2.7	Yes	5	9	Yes	1	Yes	Yes	5.7	Yes
10	UCLA Medical Center, Los Angeles	80.8	10	5	2	2	2	2	3,478	3.0	Yes	5	9	Yes	1	Yes	No	9.8	Yes
11	Rush University Medical Center, Chicago	80.5	10 10	5	2	2 2	2	2	2,343	2.2	Yes	5 5	9	Yes	1	Yes	Yes	2.4	Yes
12	NYU Langone Hospitals, New York, N.Y. Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	78.4 77.1	8	6	2	3	2	2	3,571 3,392	2.3	Yes Yes	5	9	Yes	1	Yes	Yes Yes	4.4 8.7	Yes Yes
14	Stanford Health Care-Stanford Hospital, Stanford, Calif.	76.6	9	5	2	2	2	2	2,610	2.5	Yes	5	9	Yes	1	Yes	Yes	6.0	Yes
15	St. Joseph's Hospital and Medical Center, Phoenix	76.0	10	6	3	2	2	2	4,446	2.1	Yes	5	9	Yes	0	Yes	Yes	6.0	Yes
16	Cedars-Sinai Medical Center, Los Angeles	75.8	10	5	2	2	2	2	4,899	2.6	Yes	5	9	Yes	1	Yes	No	1.6	Yes
17	Mount Sinai Hospital, New York	74.6	10	6	2	3	2	2	2,710	1.9	Yes	5	9	Yes	1	Yes	Yes	2.4	Yes
18	University Hospitals Cleveland Medical Center	74.4	10	5	2	2	2	2	2,977	2.6	Yes	5	9	Yes	1	Yes	No	1.7	Yes
19	Jefferson Health-Thomas Jefferson University Hospitals, Philadelphia	74.3	10	5	2	2	2	2	5,174	2.2	Yes	5	9	Yes	1	Yes	No	3.2	Yes
20	Brigham and Women's Hospital, Boston	73.2	9	5	2	2	2	2	3,397	2.3	Yes	5	9	Yes	0	Yes	Yes	6.6	Yes
21 22	UT Southwestern Medical Center, Dallas	73.1 72.8	10 10	5	2	2	2	2	1,825 3,775	2.3	Yes	5 5	9	No Yes	1	Yes	Yes No	2.3 1.8	Yes Yes
23	Ohio State University Wexner Medical Center, Columbus Mayo Clinic-Phoenix	71.7	9	6	3	2	2	2	2,273	2.1	Yes	5	9	No	1	Yes	Yes	3.3	Yes
24	Houston Methodist Hospital	71.6	10	5	2	2	2	2	3,942	2.0	Yes	5	9	No	1	Yes	No	2.6	Yes
25	Beaumont Hospital-Royal Oak, Mich.	70.0	10	6	2	2	3	2	4,509	1.9	Yes	5	9	Yes	1	Yes	No	0.0	Yes
26	Keck Hospital of USC, Los Angeles	69.4	10	6	2	3	2		1,075	2.4	Yes	5	9	Yes	0	Yes	Yes	1.1	Yes
27	Indiana University Health Academic Health Center, Indianapolis	68.7	9	5	2	2	2	2	3,149	2.0	Yes	5	9	Yes	1	Yes	Yes	0.8	Yes
28	University of California, Davis Medical Center, Sacramento	68.6	9	5	2	2	2	2	2,135	2.8	Yes	5	9	Yes	1	Yes	Yes	0.7	Yes
29	DMC Harper University Hospital, Detroit	68.3	10	5	2	2	2	2	640	1.7	Yes	5	8	No	1	Yes	No	0.1	Yes
30	University of Colorado Hospital, Aurora	68.2	10	5	2	2	2	2	2,393	1.9	Yes	5 5	9	Yes	1	Yes	No	1.3	Yes
31	University of Kansas Hospital, Kansas City Duke University Hospital, Durham, N.C.	68.0 67.9	8 8	6	2	2 3	2	2	2,286 2,715	2.1	Yes	5	9	Yes	1	Yes	Yes No	1.7 5.5	Yes Yes
32	UF Health Shands Hospital, Gainesville, Fla.	67.9	7	5	2	2	2	2	2,867	1.9	Yes	5	9	Yes	1	Yes	Yes	2.8	Yes
34	Baylor St. Luke's Medical Center, Houston	67.7	10	5	2	2	2	2	2,038	1.6	Yes	5	8	No	1	Yes	No	3.0	Yes
35	UPMC Presbyterian Shadyside, Pittsburgh	67.5	4	5	2	2	2	2	7,187	1.9	Yes	5	9	Yes	1	Yes	Yes	3.0	Yes
36	University of Alabama at Birmingham Hospital	67.3	9	6	2	2	2	3	4,058	1.8	Yes	5	8	Yes	1	Yes	No	1.2	Yes
37	Loyola University Medical Center, Maywood, Ill.	67.0	10	5	2	2	2	2	1,461	2.4	Yes	5	9	Yes	1	Yes	No	1.0	Yes
38	Emory University Hospital, Atlanta	66.8	8	5	2	2	2	2	2,254	1.9	Yes	5	9	No	1	Yes	Yes	3.1	Yes
38	Ochsner Medical Center, New Orleans	66.8	10	5	2	2	2	2	3,454	1.9	Yes	5	9	Yes	1	Yes	No	0.5	Yes
	Yale-New Haven Hospital, New Haven, Conn.	66.5	7	4	2	1	2	2	4,295	2.0	Yes	5	9	Yes	1	Yes	Yes	2.2	Yes
	Mayo Clinic Jacksonville, Fla. Abbott Northwestern Hospital, Minneapolis	65.8 65.7	6 10	6 5	2	2 2	2	3 2	1,583 4,284	2.1 2.4	Yes Yes	5 5	9	No No	1	Yes	Yes No	4.3 0.4	Yes Yes
	Vanderbilt University Medical Center, Nashville, Tenn.	65.4	7	6	2	3	2	2	4,017	2.5	Yes	5	9	Yes	1	Yes	No	2.8	Yes
	St. Luke's Hospital of Kansas City, Mo.	64.4	9	5	2	2	2	2	3,303	1.6	Yes	5	9	Yes	1	Yes	No	0.6	Yes
	OhioHealth Riverside Methodist Hospital, Columbus	64.2	8	5	2	2	2	2	6,512	2.1	Yes	5	9	Yes	1	Yes	No	0.3	Yes
	UC San Diego Health-UC San Diego Medical Center, Calif.	64.1	7	5	2	2	2	2	1,830	2.0	Yes	5	9	Yes	1	Yes	Yes	1.6	Yes
	Wake Forest Baptist Medical Center, Winston-Salem, N.C.	63.6	5	5	2	2	2	2	4,202	1.6	Yes	5	9	Yes	1	Yes	Yes	1.7	Yes
48	Banner Heart Hospital, Mesa, Ariz.	63.5	10	5	2	2	2	2	306	2.1	Yes	5	9	No	0	No	No	0.0	Yes
	University of Wisconsin Hospitals, Madison	63.3	7	5	2	2	2	2	2,311	2.1	Yes	5	9	Yes	1	Yes	Yes	0.6	Yes
50	Banner University Medical Center Phoenix	63.1	9	5	2	2	2	2	2,117	2.3	Yes	5	9	Yes	1	No	Yes	0.2	res

Rank	Best Hospitals 2018-19: Orthopedics Hospital Hospital Hospital for Special Surgery, New York	U.S. News Specialty Score	01 30-day survival	© Patient safety	Success in preventing deaths from treatable complications after surgery	Success in preventing major bleeding and bruising after surgery	Success in preventing respiratory failure after surgery	Success in preventing harm to patients during surgery	Number of patients	Nurse staffing	A Intensivists	> Advanced technologies	2 Patient services	S Trauma center	← Recognized as Nurse Magnet hospital	S Reputation with physicians in specialty	S Current AHA responder
2	Mayo Clinic, Rochester, Minn.	83.2	10	5	2	2	2	2	9,011	2.8	Yes	2	7	Yes	1	27.4	Yes
3	Cleveland Clinic	71.4	10	6	2	3	2	2	3,360	2.1	Yes	2	7	No	1	15.0	Yes
4	Rothman Institute at Thomas Jefferson Univ. Hospital, Philadelphia	69.1	10	5	2	2	2	2	5,746	2.2	Yes	2	7	Yes	1	7.9	Yes
6	Rush University Medical Center, Chicago Massachusetts General Hospital, Boston	69.1 67.5	10 10	5 5	2	2	2	2	3,130 3,490	2.2	Yes Yes	2	7	Yes Yes	1	7.8 10.2	Yes Yes
7	UCSF Medical Center, San Francisco	66.9	10	6	3	2	2	2	3,003	2.1	Yes	2	7	Yes	1	3.1	Yes
8	Hospital for Joint Diseases, NYU Langone Medical Center, New York	66.6	10	5	2	2	2	2	6,206	2.3	Yes	2	7	Yes	1	6.6	Yes
9	Cedars-Sinai Medical Center, Los Angeles	66.3	10	5	2	2	2	2	6,637	2.6	Yes	2	7	Yes	1	1.9	Yes
10	Johns Hopkins Hospital, Baltimore	66.2	10	4	1	2	2	2	1,191	2.1	Yes	2	7	Yes	1	6.3	Yes
11	Duke University Hospital, Durham, N.C.	66.0 64.7	10 10	6 5	2	3 2	2 2	2	2,649	2.1 1.8	Yes Yes	2	7	Yes Yes	1	6.6 3.3	Yes Yes
12	Northwestern Memorial Hospital, Chicago Stanford Health Care-Stanford Hospital, Stanford, Calif.	64.2	10	5	2	2	2	2	3,003 4,422	2.5	Yes	2	7	Yes	1	3.5	Yes
14	Barnes-Jewish Hospital, St. Louis	64.0	10	5	2	2	2	2	4,347	2.2	Yes	2	7	Yes	1	5.9	Yes
14	University of Iowa Hospitals and Clinics, Iowa City	64.0	10	5	2	2	2	2	2,032	1.8	Yes	2	7	Yes	1	5.5	Yes
16	UPMC Presbyterian Shadyside, Pittsburgh	63.9	9	5	2	2	2	2	4,928	1.9	Yes	2	7	Yes	1	7.2	Yes
17	Mayo Clinic-Phoenix	62.8	10	6	3	2	2	2	3,697	2.9	Yes	2	7	No	1	1.4	Yes
18 19	UCLA Medical Center, Los Angeles Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	62.5 62.1	10 10	5 6	2	2	2	2	2,378 2,561	3.0 2.4	Yes Yes	2	7	Yes Yes	1 1	2.8	Yes Yes
20	University of Colorado Hospital, Aurora	61.8	10	5	2	2	2	2	2,678	1.9	Yes	2	7	Yes	1	1.2	Yes
21	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	61.2	10	7	2	2	3	3	1,770	2.7	Yes	2	7	Yes	1	2.0	Yes
22	Keck Hospital of USC, Los Angeles	60.9	10	6	2	3	2	2	2,270	2.4	Yes	2	7	Yes	0	2.0	Yes
23	Pennsylvania Hospital, Philadelphia	60.5	10	5	2	2	2	2	1,631	1.8	Yes	2	7	No	1	0.6	Yes
24	Beaumont Hospital-Royal Oak, Mich.	60.4	10	6	2	2	3	2	5,908	1.9	Yes	2	7	Yes	1	1.2	Yes
24 26	New England Baptist Hospital, Boston Abbott Northwestern Hospital, Minneapolis	60.4 60.1	10 10	6 5	3 2	2	2	2	4,969 6,951	2.5 2.4	Yes Yes	2	7	No No	0	1.0	Yes Yes
26	Houston Methodist Hospital	60.1	10	5	2	2	2	2	4,605	2.0	Yes	2	7	No	1	2.1	Yes
28	Scripps La Jolla Hospitals, La Jolla, Calif.	59.9	9	6	2	3	2	2	4,147	3.1	Yes	2	6	Yes	1	1.0	Yes
29	University of Washington Medical Center, Seattle	59.6	10	5	2	2	2	2	797	2.0	Yes	2	7	No	1	2.5	Yes
30	Vanderbilt University Medical Center, Nashville, Tenn.	59.5	9	6	2	3	2	2	2,542	2.5	Yes	2	7	Yes	1	3.2	Yes
31	Hoag Orthopedic Institute, Newport Beach, Calif.	59.1 59.0	10 10	7 5	3 2	3 2	2 2	2	7,110 2,587	2.4 2.1	Yes Yes	2	7	No Yes	1	0.4	Yes Yes
33	Northwestern Medicine Central DuPage Hospital, Winfield, Ill. Ohio State University Wexner Medical Center, Columbus	58.9	10	5	2	2	2	2	1,978	2.1	Yes	2	7	Yes	1	1.0	Yes
34	VCU Medical Center, Richmond, Va.	58.8	10	5	2	2	2	2	1,575	2.4	Yes	2	7	Yes	1	0.6	Yes
35	Penn State Milton S. Hershey Medical Center, Hershey	58.7	10	6	3	2	2	2	1,963	1.7	Yes	2	7	Yes	1	0.4	Yes
36	Loyola University Medical Center, Maywood, Ill.	58.2	10	5	2	2	2	2	1,220	2.4	Yes	2	7	Yes	1	1.0	Yes
37	MUSC Health-University Medical Center, Charleston, S.C.	58.1	10	5	2	2	2	2	1,470	2.3	Yes	2	7	Yes	1	0.8	Yes
37	University of California, Davis Medical Center, Sacramento Tampa General Hospital	58.1 57.9	10 10	5 3	2	2	2	2	2,198 4,120	2.8	Yes Yes	2	7 6	Yes Yes	1	0.7 1.2	Yes Yes
40	Mount Sinai Hospital, New York	57.8	10	6	2	3	2	2	2,447	1.9	Yes	2	7	Yes	1	0.9	Yes
41	Carolinas Medical Center, Charlotte, N.C.	57.7	9	5	2	2	2	2	5,224	1.6	Yes	2	7	Yes	1	2.7	Yes
42	Cleveland Clinic Florida, Weston	57.6	10	5	2	2	2	2	1,269	2.5	Yes	2	7	No	0	0.5	Yes
43	MemorialCare Long Beach Medical Center, Long Beach, Calif.	57.4	10	5	2	2	2	2	1,770	2.5	Yes	2	7	Yes	1	0.1	Yes
44	Hackensack University Medical Center, Hackensack, N.J. Mercy Medical Center, Baltimore	56.7 56.6	10 10	5 5	2	2	2	2	2,317 2,783	2.4 1.4	Yes Yes	2	7 6	Yes	1 1	0.4	Yes
45	University of Kentucky Albert B. Chandler Hospital, Lexington	56.6	10	5	2	2	2	2	1,738	1.4	Yes	2	7	No Yes	1	0.0	Yes Yes
45	University of Minnesota Medical Center, Fairview	56.6	10	5	2	2	2	2	2,104	2.0	Yes	2	7	Yes	Ō	0.7	Yes
	University of Wisconsin Hospitals, Madison	56.6	10	5	2	2	2	2	1,910	2.1	Yes	2	7	Yes	1	0.9	Yes
49	Porter Adventist Hospital, Denver	56.2	10	3	2	1	1	2	3,903	1.9	Yes	2	6	No	1	0.3	Yes
49	UC San Diego Health-UC San Diego Medical Center, Calif.	56.2	9	5	2	2	2	2	1,974	2.0	Yes	2	7	Yes	1	1.4	Yes
49	UT Southwestern Medical Center, Dallas	56.2	10	5	2	2	2	2	1,305	2.3	Yes	1	7	No	1	0.4	Yes

	Best Hospitals 2018-19:							v								>	
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Rank	Hospital	U.S.	30-day survival	Patient safety	Suc	Success i	Success i failure af	Success i during su	Number	Nurse	Intensivists	₽	Patient services	Trauma	Recognized	Вер	Current AHA
1	National Jewish Health, Denver-University of Colorado Hospital, Aurora		10	5	2	2	2	2	4,723	1.9	Yes	6	8	Yes	1	47.2	Yes
2	Mayo Clinic, Rochester, Minn.	96.3	10	5	2	2	2	2	8,734	2.8	Yes	6	8	Yes	1	29.0	Yes
3	Cleveland Clinic Massachusetts General Hospital, Boston	88.5 82.8	10 9	6 5	2	3 2	2 2	2	5,246 6,446	2.1 2.4	Yes Yes	6	8	No Yes	1 1	24.4 14.6	Yes Yes
5	Mayo Clinic-Phoenix	80.8	10	6	3	2	2	2	5,613	2.9	Yes	5	8	No	1	2.6	Yes
5	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	80.8	10	7	2	2	3	3	3,897	2.7	Yes	6	8	Yes	1	6.3	Yes
8	UCSF Medical Center, San Francisco UPMC Presbyterian Shadyside, Pittsburgh	79.2 78.8	8 8	6 5	3 2	2 2	2 2	2	3,749 7,818	2.1 1.9	Yes Yes	6	8	Yes Yes	1 1	12.6 11.5	Yes Yes
9	UCLA Medical Center, Los Angeles	78.6	9	5	2	2	2	2	7,481	3.0	Yes	6	8	Yes	1	6.7	Yes
	Barnes-Jewish Hospital, St. Louis	78.0	9	5	2	2	2	2	5,748	2.2	Yes	6	8	Yes	1	9.8	Yes
11	Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia Johns Hopkins Hospital, Baltimore	77.6 77.2	7 7	6	2	3 2	2 2	2	5,889 2,720	2.4 2.1	Yes Yes	6	8	Yes Yes	1 1	10.6 16.3	Yes Yes
	Scripps La Jolla Hospitals, La Jolla, Calif.	75.5	10	6	2	3	2	2	4,671	3.1	Yes	5	8	Yes	1	0.1	Yes
	Cedars-Sinai Medical Center, Los Angeles	75.3	9	5	2	2	2	2	11,321	2.6	Yes	6	8	Yes	1	1.2	Yes
15 16	Vanderbilt University Medical Center, Nashville, Tenn. University of Alabama at Birmingham Hospital	74.9 74.8	8 10	6	2	3 2	2 2	2	4,620 5,910	2.5 1.8	Yes Yes	6	8	Yes Yes	1 1	6.5 2.6	Yes Yes
17	Duke University Hospital, Durham, N.C.	74.1	6	6	2	3	2	2	4,697	2.1	Yes	6	8	Yes	1	10.6	Yes
	UC San Diego Health-UC San Diego Medical Center, Calif.	74.1 73.9	8 10	5	2	2	2 3	2	3,798	2.0	Yes	6	8	Yes	1	7.4 0.8	Yes
19 20	Beaumont Hospital-Royal Oak, Mich. Ohio State University Wexner Medical Center, Columbus	73.4	10	6 5	2	2	2	2	9,498 6,392	1.9 2.1	Yes Yes	5 6	8	Yes Yes	1 1	1.2	Yes Yes
21	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	73.2	7	4	2	1	2	2	11,572	2.9	Yes	6	8	Yes	0	8.9	Yes
	UF Health Shands Hospital, Gainesville, Fla. Houston Methodist Hospital	72.8 72.7	10 10	5 5	2	2	2	2	4,019 6,447	1.9 2.0	Yes Yes	6	8	Yes No	1 1	1.9 0.9	Yes Yes
	Yale-New Haven Hospital, New Haven, Conn.	72.7	8	4	2	1	2	2	11,061	2.0	Yes	5	8	Yes	1	4.2	Yes
25	Northwestern Memorial Hospital, Chicago	72.6	10	5	2	2	2	2	3,877	1.8	Yes	6	8	Yes	1	2.5	Yes
26	University of California, Davis Medical Center, Sacramento Cleveland Clinic Fairview Hospital, Cleveland	72.5 72.2	10 10	5 6	2	2	2	2	4,543 3,769	2.8 1.9	Yes Yes	5 5	8	Yes Yes	1 1	0.7	Yes Yes
	Miami Valley Hospital, Dayton, Ohio	72.0	10	5	2	2	2	2	6,027	2.5	Yes	5	8	Yes	1	0.5	Yes
	University of Wisconsin Hospitals, Madison	71.6	10	5	2	2	2	2	3,164	2.1	Yes	6	8	Yes	1	2.5	Yes
30	St. Cloud Hospital, St. Cloud, Minn. Banner University Medical Center Phoenix	71.5 71.2	10 10	5 5	2	2	2	2	7,491 2,470	2.2	Yes Yes	4 5	8	Yes Yes	1 1	0.0	Yes Yes
	Beaumont Hospital-Troy, Mich.	70.8	9	8	3	2	3	3	7,209	2.0	Yes	5	8	Yes	1	0.0	Yes
	NYU Langone Hospitals, New York, N.Y.	70.8	9	5	2	2	2	2	7,943	2.3	Yes	5	8	Yes	1	2.2	Yes
34	St. Luke's Regional Medical Center, Boise, Idaho Mission Hospitals, Mission Viejo and Laguna Beach, Calif.	70.7 70.3	10 10	6	2	2	3 2	2	5,620 5,083	2.1	Yes Yes	5 5	6 8	No Yes	1	0.0	Yes Yes
	Parker Adventist Hospital, Colo.	70.3	10	5	2	2	2	2	1,483	2.2	Yes	5	8	Yes	ī	0.0	Yes
37	Stanford Health Care-Stanford Hospital, Stanford, Calif.	69.5	7	5	2	2	2	2	4,564	2.5	Yes	6	8	Yes	1	4.1	Yes
38	Indiana University Health Academic Health Center, Indianapolis	69.2	9	5	2	2	2	2	5,025 4,998	2.3	Yes	6	8	Yes	0 1	8.8 0.5	Yes
39	University of Iowa Hospitals and Clinics, Iowa City	69.1	9	5	2	2	2	2	2,554	1.8	Yes	6	8	Yes	1	1.9	Yes
	University of Kansas Hospital, Kansas City Wake Forest Baptist Medical Center, Winston-Salem, N.C.	69.0 69.0	10 9	5 5	2	2	2	2	3,727 7,306	2.1 1.6	Yes Yes	5 5	8	Yes Yes	1 1	0.7 1.1	Yes Yes
	UT Southwestern Medical Center, Dallas	68.9	10	5	2	2	2	2	2,623	2.3	Yes	6	8	No	1	1.8	Yes
44	University of Washington Medical Center, Seattle	68.8	9	5	2	2	2	2	1,804	2.0	Yes	6	8	No	1	5.4	Yes
	Froedtert Hospital and the Medical College of Wisconsin, Milwaukee Tampa General Hospital	68.7 68.4	10 10	5 3	2	2 1	2 2	2	3,810 4,009	1.8 2.1	Yes Yes	6	8	Yes Yes	1 1	0.6 1.0	Yes Yes
	Abbott Northwestern Hospital, Minneapolis	68.3	10	5	2	2	2	2	6,043	2.1	Yes	5	8	No	1	0.1	Yes
47	Cleveland Clinic Akron General, Ohio	68.3	10	5	2	2	2	2	5,082	1.2	Yes	5	8	Yes	1	0.1	Yes
49	Banner University Medical Center Tucson, Ariz. Loyola University Medical Center, Maywood, Ill.	68.0 68.0	10 9	5	2	2 2	2 2	1 2	2,955 2,455	2.0 2.4	Yes Yes	6	7 8	Yes Yes	1 1	0.3 1.3	Yes Yes
+3	Loyola offiversity medical center, maywood, Ill.	00.0	,			2	2		۷,+۵۵	۷.4	163	U		162		1.5	162

	Best Hospitals 2018-19: Urology	alty Score			n preventing deaths from complications after surgery	preventing major bleeding g after surgery	preventing respiratory r surgery	preventing harm to patients lery	nts			technologies			Nurse Magnet hospital	physicians in specialty	responder
Rank	Hospital	U.S. News Specialty	30-day survival	Patient safety	Success in preve treatable compl	Success in prevent and bruising after	Success in preve failure after sur	Success in preveduring surgery	Number of patients	Nurse staffing	Intensivists	Advanced techn	Patient services	Trauma center	Recognized as N	Reputation with physicians	Current AHA res
1	Cleveland Clinic	100.0	10	6	2	3	2	2	1,015	2.1	Yes	6	9	No	1	39.0	Yes
2	Johns Hopkins Hospital, Baltimore	99.9	10	4	1	2	2	2	665	2.1	Yes	6	9	Yes	1	30.5	Yes
2	Mayo Clinic, Rochester, Minn.	99.9	10	5	2	2	2	2	1,323	2.8	Yes	6	9	Yes	1	23.9	Yes
4	UCSF Medical Center, San Francisco	88.5 88.3	10 10	6 7	3	2	2	2	689 813	2.1	Yes	6	9	Yes	1 1	11.0 6.9	Yes
5	University of Michigan Hospitals-Michigan Medicine, Ann Arbor Vanderbilt University Medical Center, Nashville, Tenn.	86.2	9	6	2	3	2	2	931	2.7	Yes Yes	6	9	Yes Yes	1	11.2	Yes Yes
7	UCLA Medical Center, Los Angeles	85.2	7	5	2	2	2	2	629	3.0	Yes	6	9	Yes	1	13.6	Yes
8	Memorial Sloan-Kettering Cancer Center, New York	82.5	9	5	2	1	3	2	1,058	2.1	Yes	6	8	No	1	10.2	Yes
9	Keck Hospital of USC, Los Angeles	80.9	9	6	2	3	2	2	1,156	2.4	Yes	6	9	Yes	0	8.1	Yes
10	NYU Langone Hospitals, New York, N.Y.	80.7	9	5	2	2	2	2	656	2.3	Yes	6	9	Yes	1	5.5	Yes
11	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	80.6	9	4	2	1	2	2	1,333	2.9	Yes	6	9	Yes	0	7.2	Yes
12	Duke University Hospital, Durham, N.C.	80.2	9 10	6 5	2	3	2	2	611	2.1	Yes	6	9	Yes	1	7.1	Yes
13	Cedars-Sinai Medical Center, Los Angeles Mayo Clinic-Phoenix	80.1 79.6	10	6	2	2	2 2	2	1,183 915	2.6 2.9	Yes Yes	6	8	Yes No	1 1	0.8 2.7	Yes Yes
15	Barnes-Jewish Hospital, St. Louis	79.2	10	5	2	2	2	2	734	2.2	Yes	6	9	Yes	1	3.4	Yes
16	Huntington Memorial Hospital, Pasadena, Calif.	79.0	10	6	3	2	2	2	306	2.6	Yes	6	9	Yes	1	0.2	Yes
17	Stanford Health Care-Stanford Hospital, Stanford, Calif.	78.9	9	5	2	2	2	2	552	2.5	Yes	6	9	Yes	1	4.2	Yes
18	Massachusetts General Hospital, Boston	78.1	9	5	2	2	2	2	669	2.4	Yes	6	9	Yes	1	4.8	Yes
19	University of California, Davis Medical Center, Sacramento	77.8	10	5	2	2	2	2	579	2.8	Yes	6	9	Yes	1	0.5	Yes
20	VCU Medical Center, Richmond, Va.	77.6 77.5	10 10	5 5	2	2	2	2	224 417	2.4	Yes	6	9	Yes Yes	1 1	0.8	Yes
21	University of Wisconsin Hospitals, Madison West Virginia University Hospitals, Morgantown, W.Va.	77.2	10	6	2	3	2	2	185	2.1	Yes Yes	6	9	Yes	1	2.1	Yes Yes
23	University of Kansas Hospital, Kansas City	76.8	10	5	2	2	2	2	495	2.1	Yes	6	9	Yes	1	1.3	Yes
23	University of Maryland Medical Center, Baltimore	76.8	10	3	1	2	1	2	283	2.9	Yes	6	9	Yes	1	0.7	Yes
25	Hosps. of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	76.6	8	6	2	3	2	2	737	2.4	Yes	6	9	Yes	1	3.1	Yes
26	Beaumont Hospital-Royal Oak, Mich.	76.4	9	6	2	2	3	2	866	1.9	Yes	6	9	Yes	1	1.7	Yes
26	Northwestern Memorial Hospital, Chicago	76.4	9	5	2	2	2	2	552	1.8	Yes	6	9	Yes	1	4.7	Yes
28	Tampa General Hospital	76.2	10	3 5	1	1	2	2	629	2.1	Yes	6	9	Yes	1	1.2	Yes
30	UPMC Presbyterian Shadyside, Pittsburgh University of Virginia Medical Center, Charlottesville	76.0 75.4	9 10	5	2	2 2	2 2	2	814 247	1.9 2.1	Yes Yes	6	9	Yes Yes	1 1	3.2 2.2	Yes Yes
31	Loyola University Medical Center, Maywood, Ill.	74.9	10	5	2	2	2	2	453	2.4	Yes	6	8	Yes	1	1.5	Yes
32	UW Medicine/Harborview Medical Center, Seattle	74.4	10	6	2	3	2	2	81	2.5	Yes	6	9	Yes	ō	0.0	Yes
33	UC Irvine Medical Center, Orange, Calif.	74.3	10	5	2	2	2	2	254	2.1	Yes	6	8	Yes	1	1.5	Yes
34	University of Alabama at Birmingham Hospital	74.0	9	6	2	2	2	3	494	1.8	Yes	6	9	Yes	1	1.4	Yes
34	University of Iowa Hospitals and Clinics, Iowa City	74.0	10	5 5	2	2	2	2	334	1.8	Yes	6	9	Yes	1	1.3	Yes
34	UT Southwestern Medical Center, Dallas University of Colorado Hospital, Aurora	74.0 73.8	8 10	5	2	2	2	2	685 602	2.3 1.9	Yes Yes	6	9	No Yes	1	4.6 0.7	Yes Yes
38	Mount Sinai Hospital, New York	73.4	7	6	2	3	2	2	786	1.9	Yes	6	9	Yes	1	2.8	Yes
39	Hahnemann University Hospital, Philadelphia	73.1	10	5	2	2	2	2	127	1.8	No	6	9	Yes	1	0.1	Yes
40	Yale-New Haven Hospital, New Haven, Conn.	72.9	9	4	2	1	2	2	992	2.0	Yes	6	9	Yes	1	1.0	Yes
	Hoag Memorial Hospital Presbyterian, Newport Beach, Calif.	72.8	9	7	3	3	2	2	752	2.4	Yes	6	9	No	1	0.0	Yes
	University Hospital, San Antonio	72.7	10	5	2	2	2	2	101	1.6	Yes	6	9	Yes	1	0.2	Yes
43	Jefferson Health-Thomas Jefferson University Hospitals, Philadelphia	72.5	7	5	2	2	2	2	747 644	2.2	Yes	6	9	Yes	1	2.8	Yes
43	Ohio State University Wexner Medical Center, Columbus Parker Adventist Hospital, Colo.	72.5 72.2	9 10	5 5	2	2	2	2	644 80	2.1	Yes Yes	6	9	Yes Yes	1 1	0.9	Yes Yes
45	University of Chicago Medical Center	72.2	9	7	2	3	2	3	560	2.4	Yes	6	9	Yes	0	2.2	Yes
47	Advocate Good Samaritan Hospital, Downers Grove, Ill.	72.2	10	7	3	2	2	3	205	2.0	Yes	6	8	Yes	1	0.0	Yes
48	Emory University Hospital, Atlanta	72.0	10	5	2	2	2	2	574	1.9	Yes	6	9	No	1	1.6	Yes
48	Vidant Medical Center, Greenville, N.C.	72.0	9	6	2	3	2	2	606	2.0	Yes	6	9	Yes	1	0.1	Yes
50	Abbott Northwestern Hospital, Minneapolis	71.6	10	5	2	2	2	2	519	2.4	Yes	6	9	No	1	0.5	Yes
50	University Hospitals Cleveland Medical Center	71.6	7	5	2	2	2	2	387	2.6	Yes	6	9	Yes	1	1.9	Yes

Appendix E 2018-19 Best Hospitals Rankings, Reputation-Only Specialties

Best Hospitals 2018-19: Ophthalmology

Rank	Hospital	Reputation (%)
1	Bascom Palmer Eye Institute-Anne Bates Leach Eye Hospital, Miami	54.7%
2	Wills Eye Hospital, Thomas Jefferson University Hospital, Philadelphia	50.3%
3	Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore	39.2%
4	Massachusetts Eye and Ear Infirmary, Mass. General Hosp., Boston	27.0%
5	Stein and Doheny Eye Institutes, UCLA Medical Center, Los Angeles	22.6%
6	Duke University Hospital, Durham, N.C.	14.1%
7	University of Iowa Hospitals and Clinics, Iowa City	13.2%
8	Kellogg Eye Center-Michigan Medicine, Ann Arbor	8.9%
9	Cole Eye Institute, Cleveland Clinic	8.1%
10	UCSF Medical Center, San Francisco	7.7%
11	New York Eye and Ear Infirmary of Mount Sinai, N.Y.	6.8%
12	USC Roski Eye Institute, Los Angeles	5.9%

Best Hospitals 2018-19: Psychiatry

Rank	Hospital	Reputation (%)
1	McLean Hospital, Belmont, Mass.	22.7%
2	Massachusetts General Hospital, Boston	19.7%
3	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	15.0%
4	Johns Hopkins Hospital, Baltimore	14.0%
5	Menninger Clinic, Houston	13.7%
6	Sheppard Pratt Hospital, Baltimore	12.4%
7	Mayo Clinic, Rochester, Minn.	11.9%
8	Resnick Neuropsychiatric Hospital at UCLA, Los Angeles	10.2%
9	Yale-New Haven Hospital, New Haven, Conn.	6.5%
10	Austen Riggs Center, Stockbridge, Mass.	5.9%
11	UCSF Medical Center, San Francisco	5.7%

Best Hospitals 2018-19: Rehabilitation

Rank	Hospital	Reputation (%)
1	Shirley Ryan AbilityLab (formerly Rehab. Institute of Chicago), Chicago	35.2%
2	Spaulding Rehabilitation Hospital, Massachusetts General Hosp., Boston	19.9%
3	TIRR Memorial Hermann, Houston	19.5%
4	Kessler Institute for Rehabilitation, West Orange, N.J.	19.0%
5	University of Washington Medical Center, Seattle	16.7%
6	Mayo Clinic, Rochester, Minn.	14.6%
7	Rusk Rehabilitation at NYU Langone Medical Center, New York	13.7%
8	Craig Hospital, Englewood, Colo.	12.5%
9	Shepherd Center, Atlanta	11.6%
10	MossRehab, Elkins Park, Pa.	7.2%
11	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	6.4%
12	UPMC Presbyterian Shadyside, Pittsburgh	6.3%
13	Magee Rehabilitation Hospital, Philadelphia	5.3%

Best Hospitals 2018-19: Rheumatology

Rank	Hospital	Reputation (%)
1	Johns Hopkins Hospital, Baltimore	40.2%
2	Cleveland Clinic	39.6%
3	Hospital for Special Surgery, New York-Presbyterian Hospital, N.Y.	37.1%
4	Mayo Clinic, Rochester, Minn.	33.8%
5	Brigham and Women's Hospital, Boston	24.1%
6	Massachusetts General Hospital, Boston	15.1%
7	UCSF Medical Center, San Francisco	15.0%
8	UCLA Medical Center, Los Angeles	14.5%
9	Hospital for Joint Diseases, NYU Langone Medical Center, New York	13.9%
10	University of Alabama at Birmingham Hospital	9.8%
11	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	7.8%
12	Duke University Hospital, Durham, N.C.	6.5%
13	UPMC Presbyterian Shadyside, Pittsburgh	6.0%

Appendix F 2018-19 Best Hospitals Honor Roll

2018-19 Best Hospitals Honor Roll

Rank	Hospital	Points
1	Mayo Clinic, Rochester, Minn.	414
2	Cleveland Clinic	385
3	Johns Hopkins Hospital, Baltimore	355
4	Massachusetts General Hospital, Boston	354
5	University of Michigan Hospitals-Michigan Medicine, Ann Arbor	324
6	UCSF Medical Center, San Francisco	296
7	UCLA Medical Center, Los Angeles	267
8	Cedars-Sinai Medical Center, Los Angeles	252
9	Stanford Health Care-Stanford Hospital, Stanford, Calif.	250
10	New York-Presbyterian Hospital-Columbia and Cornell, N.Y.	242
11	Barnes-Jewish Hospital, St. Louis	241
11	Mayo Clinic-Phoenix	241
13	Northwestern Memorial Hospital, Chicago	228
14	Hospitals of the Univ. of Pennsylvania-Penn Presbyterian, Philadelphia	225
15	NYU Langone Hospitals, New York, N.Y.	208
15	UPMC Presbyterian Shadyside, Pittsburgh	208
17	Vanderbilt University Medical Center, Nashville, Tenn.	198
18	Mount Sinai Hospital, New York	192
19	Duke University Hospital, Durham, N.C.	178
20	Brigham and Women's Hospital, Boston	177