# Methodology: U.S. News & World Report Best Children's Hospitals 2024-25

Rebecca J. Powell
Murrey G. Olmsted
Joe Murphy
Denise Bell
Katherine Blackburn
Ashley B. Murray
Marshica Stanley
Rachael Allen
Lindsay Hiser



#### To Whom It May Concern:

U.S. News & World Report's "Best Children's Hospitals" study is the sole and exclusive property of U.S. News & World Report, L.P., which owns all rights, including but not limited to copyright, in and to the attached data and material. Any party wishing to cite, reference, publish or otherwise disclose the information contained herein may do so only with the prior written consent of U.S. News. Any U.S. News-approved reference or citation must identify the source as "U.S. News & World Report's Best Children's Hospitals" and must include the following credit line: "Copyright © 2024 U.S. News & World Report, L.P. Data reprinted with permission from U.S. News." For permission to cite or use, contact permissions@usnews.com.

## **Executive Summary**

Pediatrics has been an element of Best Hospitals since 1990, when U.S. News & World Report published the first annual "America's Best Hospitals" rankings, as they were then called. The initial evaluations, in 12 specialties, comprised short lists of centers that were identified through a survey of physician specialists as providing the best care for the most challenging patients.

For the first time, patients and families, in consultation with their doctors, had a tool to help narrow their search for a hospital particularly skilled in performing difficult procedures, treating serious conditions, and otherwise demonstrating an especially high level of care. Although that core mission has not changed, U.S. News broadened its scope in 2015 by adding ratings of some 4,600 hospitals in relatively commonplace procedures and conditions such as heart bypass surgery, knee and hip joint replacement, and chronic obstructive pulmonary disease.

By 1993 hard data had been incorporated into most Best Hospitals specialty rankings, but until 2007 the pediatric rankings continued to rely entirely on an annual survey of pediatric specialists because hard data comparable to the MedPAR files for Medicare recipients were unavailable. Pediatric-specific data were critical. Benchmarking and data generated from adult patients, to the extent that such information existed at all, could not be applied to children. Structuring coordinated care for congenital conditions such as spina bifida and cystic fibrosis, determining drug dosages, and minimizing vulnerability to infection are a few of many factors that make pediatric patients unique.

Lacking robust pediatric data bases, U.S. News elected to collect data directly from children's hospitals through a comprehensive clinical and operational survey. The first rankings to incorporate data from such a survey, developed by RTI International,\* were published in 2007 in the form of the top 30 children's centers in General Pediatrics. Specialty rankings were not included.

In the years that followed, data collection was broadened and deepened. The current methodology continues to include reputational survey results (expert opinion) and supplemental information from resources such as the National Cancer Institute. Best Children's Hospitals now ranks the top 50 centers in 11 specialties: Cancer, Cardiology & Heart Surgery, Diabetes & Endocrinology, Gastroenterology & GI Surgery, Neonatology, Nephrology, Neurology & Neurosurgery, Orthopedics, Pulmonology & Lung Surgery, Urology, and Pediatric & Adolescent Behavioral Health.

To provide parents with information about more centers and demonstrate transparency, pediatric centers below the line—that is, those that are not nationally ranked—are now displayed.

-

<sup>\*</sup> RTI International is the trade name of Research Triangle Institute.

Pediatric centers that provided sufficient data to receive an overall U.S. News Score but fell short of the top 50 are displayed with their calculated metrics but without rank or score.

Each of the 198 facilities eligible to be surveyed for the 2024-25 Best Children's Hospitals rankings is either a freestanding children's hospital or a "hospital within a hospital"—a large, essentially autonomous multidisciplinary pediatric department within a major medical center. Most are members of the Children's Hospital Association.<sup>†</sup>

RTI collects and analyzes the data for the "Best Children's Hospitals" rankings. The methodology reflects *clinical outcomes*, such as patient survival, infection rates, and complications; the level and quality of *hospital resources* directly related to patient care, such as staffing, technology, and special services; *delivery of healthcare*, such as programs that prevent infections and adherence to best practices; and *expert opinion* among pediatric specialists.

In the 2024-25 rankings, 88 of the 198 eligible hospitals were ranked among the top 50 in at least one specialty. The 2024-25 Best Children's Hospitals Honor Roll recognizes the 10 hospitals with the highest rankings across all specialties.

Editor's Note: Our mission is to serve the best interests of patients and to do so, we, like other reputable journalists, are editorially independent of our employer's business operations. An organization's license of a "Best Children's Hospital" badge or its purchase of advertising or other products from U.S. News does not affect whether or not, or how, that organization is rated, either currently or in the future.

Ben Harder Managing Editor and Chief of Health Analysis U.S. News & World Report

ES-2

<sup>†</sup> The National Association for Children's Hospitals and Related Institutions was renamed the Children's Hospital Association in 2012. See <a href="https://www.childrenshospitals.org/">https://www.childrenshospitals.org/</a> for additional details.

## **Table of Contents**

Exec	utive	Summary	1
I.	Int	roduction	1
II.	Eli	gibility	3
	Α.	General Eligibility	
	В.	Specialty-Specific Eligibility	
III.	Pec	liatric Hospital Survey	4
IV.	Stru	ıcture	5
	Α.	Structural Measures	5
		Accredited by FACT (Cancer)	6
		Active Fellowship Program (All Specialties)	
		Adoption of Health Information Technology (All Specialties)	8
		Adult Congenital Heart Program (Cardiology & Heart Surgery)	
		Advanced Clinical Services Offered (All Specialties, Except for Behavioral	
		Health)	9
		Advanced Technologies (All Specialties, Except for Behavioral Health)	
		Bone Marrow Transplant Services (Cancer)	
		Clinical Support Services Offered (All Specialties)	
		Commitment to Clinical Research (All Specialties)	26
		Commitment to Quality Improvement (All Specialties)	
		Congenital Heart Program (Cardiology & Heart Surgery)	
		ECMO Availability (Neonatology)	
		Emergency Department and Urgent Care for Behavioral Health (Behavioral	
		Health)	33
		Enlists Families in Structuring Care (All Specialties)	34
		Has Full-time Subspecialists Available (All Specialties)	35
		Heart Transplant Program (Cardiology & Heart Surgery)	
		Help for Families (All Specialties)	
		Liver Transplant Program (Gastroenterology & GI Surgery)	43
		Lung Transplant Program (Pulmonology & Lung Surgery)	
		Neonatal Transport (Neonatology)	43
		Nurse Staffing (All Specialties)	44
		Percentage of Dialysis Patients Who Had Transplants (Nephrology)	44
		Provides Advanced Palliative Care Program (Cancer)	45
		Recognized as Nurse Magnet Hospital (All Specialties)	45
		Specialized Clinics and Programs (Cancer, Diabetes & Endocrinology,	
		Gastroenterology & GI Surgery, Neonatology, Neurology & Neurosurgery,	
		Orthopedics, Urology, Behavioral Health)	46
		Success in Helping Patients Manage Their Asthma (Pulmonology & Lung	
		Surgery)	49
		Success in Managing Neuromuscular Weakness Disorder (Pulmonology &	
		Lung Surgery)	
		Tracking Growth Metrics for Treated Patients (Neonatology)	
		Volume of Patients (All Specialties)	
	В.	Normalization	61

	C.	Weighting	61
V.	Pro	ocess	64
	Α.	Commitment to Best Practices	64
	В.	Ability to Prevent Infections	95
		All-Specialty Infection-Preventing Measures	95
		Specialty-Specific Infection-Preventing Measures	
	C.	Commitment to Equity, Diversity, and Inclusion (All Specialties)	100
	D.	Prevention/Reduction of Side Effects of Care	102
	E.	Expert Opinion With Pediatric Specialists	103
		2024 Survey Approach	104
		Transformation	107
	F.	Normalization and Weighting	108
VI.	Ou	tcomes	109
	Α.	Outcome Measures	109
		Cancer	109
		Cardiology & Heart Surgery	111
		Diabetes & Endocrinology	
		Gastroenterology & GI Surgery	
		Neonatology	
		Nephrology	
		Neurology & Neurosurgery	
		Orthopedics	
		Urology	
		Behavioral Health	
	В.	Normalization and Weighting	134
VII.	Cal	culation of the U.S. News Score	136
VIII.	Pec	liatric Honor Roll	138
IX.	202	4-25 Changes	138
Χ.	Fut	ture Improvements	139
XI.	Coı	ntact Information	140
XII.	Ref	rerences	140

## **List of Tables**

Table 1. Specialty-Specific Eligibility Requirements	4
Table 2. Active Fellowship Programs by Specialty	
Table 3. Advanced Clinical Services Offered by Specialty	
Table 4. Advanced Technologies by Specialty	19
Table 5. Clinical Support Services by Specialty (Except Behavioral Health)	24
Table 6. Subspecialists by Specialty	35
Table 7. Volume Measures by Specialty	52
Table 8. Relative Weights of Individual Structural Measures by Specialty	62
Table 9. Commitment to Best Practices by Specialty	
Table 10. Core Infection-Preventing Measures, All Specialties (Except for Behavioral Health)	95
Table 11. Equity, Diversity, and Inclusion Measures, All Specialties	100
Table 12. Prevention/Reduction of Side Effects of Care	
Table 13. Expert Opinion Weight by Survey Year	104
Table 14. Population Counts by Best Hospitals Specialty, Doximity Members	105
Table 15. Member Survey Response Rates (%) by Region and Specialty, 2024	
Table 16. Weight of Individual Process Measures (All Specialties Except Pediatric Cardiology &	
Heart Surgery and Behavioral Health)	
Table 17. Relative Weights of Outcomes Measures by Specialty	
Table 18. Component Weighting	136
Figure 2. Example Funnel Plot of AMR and Patient Volume With 1 and 2 Standard Error Line	
Figure 2. Example Funnel Plot of AMR and Patient Volume With 1 and 2 Standard Error Line	
Used for Point Boundaries	113
Figure 3. Example Funnel Plot of Optimal A1C Values for Patients 13-17 Years of Age on Prix	ate
Insurance With Type 1 Diabetes and Patient Volume With 1 Standard Error Lines Us	
for Point Boundaries	
Figure 4. Example Funnel Plot of Unplanned Hospital Admissions (For Any Reason) Within 3	
days for Patients With Neuromuscular Scoliosis with 1 Standard Error Lines Used for	
Point Boundaries	
Figure 5. Example Funnel Plot Unplanned Hospital Admissions for Urologic Issue Within 30 I	
of Inpatient Urological Surgery and Surgical Volume With 1 Standard Error Lines Us	
for Point Boundaries	131
List of Appendixes	
Appendix A 2024-25 Best Children's Hospitals Working Groups and Members	
Appendix B Glossary of Terms	B-1
	B-1 C-1

#### I. Introduction

Rankings in pediatrics were included in the initial "America's Best Hospitals" rankings in 1990. Until 2007, however, the pediatric rankings relied entirely on reputational surveys of board-certified pediatricians and adolescent-medicine specialists.

The reason was that quantitative pediatric measures at that time barely existed. A large, rich database, comparable to the Centers for Medicare & Medicaid Services MedPAR (Medicare Provider Analysis and Review) files that determine mortality in 12 adult specialties, was unavailable. Reliable structural measures also were absent. Available data sources generally reported volume, advanced technologies, and patient services for the hospital as a whole and did not break out pediatric-specific information.

Continuing to rank children's hospitals solely on expert opinion for an indeterminate period while performance data were codified and the means of collecting and verifying them settled was felt to be unacceptable. U.S. News asked RTI International, U.S. News contractor for the adult Best Hospitals rankings, to develop a rigorous methodology for ranking hospitals in pediatrics that would incorporate data obtained directly from the hospitals.

The resulting methodology and initial version of a direct hospital survey (referenced in this report as the Pediatric Hospital Survey) produced General Pediatrics rankings of 30 hospitals, published in the September 3, 2007, issue of U.S. News & World Report as "Best Children's Hospitals." The issue was separate from the issue with the adult rankings, to highlight the change and minimize possible confusion.

The Pediatric Hospital Survey and the reputational Physician Survey were expanded in 2008, permitting pediatric hospitals to be ranked in six pediatric specialties and in General Pediatrics.\*\* In 2009, General Pediatrics was dropped and the specialties expanded to 10. With Pediatric & Adolescent Behavioral Health added in 2024, the project now encompasses these 11 specialties:

- Cancer
- Cardiology & Heart Surgery
- Diabetes & Endocrinology
- Gastroenterology & GI Surgery
- Neonatology

- Nephrology
- Neurology & Neurosurgery
- Orthopedics
- Pulmonology & Lung Surgery
- Urology
- Behavioral Health

<sup>§</sup> A relatively small number of children do receive care under Medicare under narrow eligibility definitions because of legislatively mandated coverage.

<sup>\*\*</sup> Previous methodology reports are available online at www.rti.org/besthospitals.

Like their adult counterpart, the Best Children's Hospitals rankings reflect the interrelationship between structure, process and outcomes, the three components of the Donabedian paradigm. <sup>1-5</sup> Individual measures, their weights, and approach to scoring are quite different in the pediatric rankings, however.

The Donabedian components represent the following healthcare concepts:

- Structure refers to hospital resources directly related to patient care. Examples include the ratio of nurses to patients, specialized clinics and programs, and certification by recognized external organizations.
- Process encompasses overall rendering of diagnosis, treatment, prevention, and patient
  education. Process is represented in part by an expert opinion score based on the
  annual survey of board-certified physicians cited above. Starting with the 2012-13
  rankings, the pediatric methodology has incorporated compliance with best practices
  and activities to prevent infections and other patient safety issues.
- Outcomes obviously include survival but can also include functional success (as in children with cystic fibrosis) and incidence of adverse events (such as bloodstream infections and transplant-organ failure).

Each major component of the Best Children's Hospitals ranking score—structure, outcomes, and process—is worth exactly one-third of the overall score except in two specialties, Cardiology and Heart Surgery and Behavioral Health. In Cardiology & Heart Surgery, the outcomes weight in the overall score was increased in the 2017-18 rankings to 38.3% and the process weight lowered to 28.3% (details are provided in Table 16). In Behavioral Health, the structure and process weights are each 40% and the outcomes weight is 20%. The specific measures, their weights, and the scoring algorithm all are quite different from their adult counterparts.

Section II of this report outlines the general eligibility requirements for consideration in the pediatric rankings. As in previous years, most structure and outcomes data for the 2024-25 rankings were obtained directly from children's hospitals through the Pediatric Hospital Survey (Section III). Data for three measures were supplied by external organizations: Nurse Magnet recognition (American Nurses Credentialing Center), accreditation by the Foundation for Accreditation of Cellular Therapy (FACT) for Bone Marrow Transplant (BMT) and tissue transplant (Foundation for the Accreditation of Cellular Therapy), and commitment to best practices in treating patients with seizure disorders (National Association of Epilepsy Centers).

The specific mission of the Best Children's Hospitals rankings is to identify hospitals that provide the highest quality of care for children with the most serious or complicated medical

conditions, using the most robust and sensitive measures available to represent the three Donabedian components. *Sections IV, V, and VI* describe the data and the construction of each component.

The methodology also incorporates nominations of hospitals from board-certified pediatric specialists in each of the 11 specialties through the Pediatric Physician Survey, as described in *Section V*.

## II. Eligibility

## A. General Eligibility

To be considered for the 2024-25 pediatric rankings, hospitals had to provide extensive data about their services and capabilities

Historically, initial eligibility for the rankings has been determined by membership in the Children's Hospital Association or by nomination by teams of expert advisers. U.S. News and RTI have supplemented the universe by adding hospitals that have expressed interest in public reporting, after consideration of the size and scope of each hospital's pediatric program.

Of the 198 hospitals in the sample, 108, or 54.5% submitted sufficient data through the 2024-25 Pediatric Hospital Survey to be considered for ranking. Each facility met the description of one of three groups: a freestanding children's hospital, a "hospital within a hospital" (as described above, a pediatric service that functions autonomously within a larger medical center), or a specialty hospital (such as one that exclusively treats cancer or orthopedic patients).

## B. Specialty-Specific Eligibility

To be eligible for ranking within a given specialty, hospitals had to satisfy two additional requirements:

In specialties other than Neonatology, a hospital had to verify in the Pediatric
Hospital Survey that services in the specialty were in fact available. In Neonatology, a
hospital also had to have a Level IV neonatal intensive care unit (NICU). Validation
of this NICU status could be met based either on state determination of Level IV
status or satisfaction of Level IV eligibility requirements as specified by the American
Academy of Pediatrics guidelines.<sup>††</sup>

3

<sup>#</sup>AAP guidelines, Pediatrics, 2012, 130:587-597.

A full-time equivalent (FTE) of at least 1.0 attending physicians in certain specialtyrelated medical fields was required. The physician categories are shown in *Table 1*.
Text and table references (e.g., "B2a") indicate the related section and question in the
Pediatric Hospital Survey.

**Table 1. Specialty-Specific Eligibility Requirements** 

Specialty	Must have at least 1.0 FTE attending staff in the following categories:
Cancer	Pediatric hematologist/oncologist (B2a)*
Cardiology & Heart Surgery	Pediatric cardiothoracic surgeon (E2a) <b>and</b> Pediatric cardiac intensivist (from training in cardiology, pediatric critical care or anesthesiology) <b>or</b> Other pediatric cardiac specialist (pediatric cardiac interventionalist, pediatric cardiac electrophysiologist, pediatric anesthesiologist with specialty cardiac training, or pediatric advanced imaging specialist (cardiologist or radiologist)) (E2b, E2c, E2d, E2e, E2f, E2g, or E2h)
Diabetes & Endocrinology	Pediatric endocrinologist (C2a)
Gastroenterology & GI Surgery	Pediatric gastroenterologist (D2a)
Neonatology	Pediatric neonatologist (F2a)
Nephrology	Pediatric nephrologist (G2a)
Neurology & Neurosurgery	Pediatric neurologist (H2a) <b>or</b> Pediatric neurosurgeon (H2b)
Orthopedics	Pediatric orthopedic surgeon (I2a)
Pulmonary	Pediatric pulmonologist (J2a) <b>or</b> Pediatric sleep medicine physician (J2b)
Urology	Pediatric urologist (K2a)
Behavioral Health	Child and adolescent psychiatrist (L2a) or Child and adolescent clinical psychologist or neuropsychologist (L2b) or Developmental behavioral pediatricians or neurodevelopmental disabilities physician (L2c) or Adolescent medicine physician (L2d)

<sup>\*</sup> Parenthetical references indicate related survey questions.

## **III. Pediatric Hospital Survey**

As part of the process of creating the initial pediatric rankings, RTI convened advisory panels to inform the hospital survey. These working groups have been retained to help the survey evolve by providing new findings and perspectives that can be incorporated before the survey is finalized and sent to hospitals.

Panel members do not serve fixed terms. Members who drop out through normal attrition are replaced by RTI through a request to the pediatric hospital community for candidates with broad expertise in both general and specialty pediatric medical care and familiarity with current research on hospital quality. The names and institutions of all individual working group members for the 2024-25 Pediatric Hospital Survey are provided, with their permission, in *Appendix A*.

Through conference calls, ad hoc phone discussions, and emails during the summer and fall of 2023, working group members proposed, reviewed, and discussed revisions to the previous version, including potential new measures. Smaller subgroups of members in each working group were responsible for reviewing the revised codes to ensure that the selected codes were relevant and appropriate. The RTI project team then created a draft set of measures and a survey instrument.

A draft of the survey was provided as a Microsoft Word document to hospitals at the beginning of December 2023 on an FYI basis, to give them as much time as possible to collect and organize data before the official start date. They received the finalized survey in early January 2024 via a dedicated web page. Survey responses were accepted until mid-March.

Some measures were ultimately excluded after data were submitted because the results failed to demonstrate meaningful variability. The remaining items are described in detail below, with references to the corresponding survey question numbers in parentheses.

#### **IV. Structure**

The structural component is represented by volume, technology, clinical services, and other characteristic features of a high-quality pediatric hospital. In the Best Hospitals adult specialty rankings, most structural measures and their associated data are extracted from the American Hospital Association (AHA) annual survey. Because the AHA survey focuses primarily on overall hospital and system measures, the pediatric data from the survey lack specificity. Structural data were therefore collected through the Pediatric Hospital Survey.

All measures used in the rankings are described in the following sections. The print version of the rankings displays a subset of the online measures.

#### A. Structural Measures

The structural measures used in the rankings represent fundamental elements of high-quality, hospital-based pediatric care. Descriptions of the measures and the specialties to which they are applied are listed alphabetically. Text and table references such as (A6a) indicate the related section and question in the Pediatric Hospital Survey. Each measure's relative weight within a specialty is provided in *Section IV.B. Normalization and Weighting*.

## **Accredited by FACT (Cancer)**

Accreditation indicates that as of January 16, 2024, a hospital met standards set by FACT for transplanting cells to treat pediatric cancer, an indication of a high degree of care in handling and using cellular tissue. Programs could be certified as providing adult or pediatric services and as offering two types of transplant services: autologous and allogeneic. For the Cancer specialty, a hospital was awarded 1 point if it was accredited by FACT as a pediatric or adult service provider for either autologous or allogeneic transplants or for providing Immune Effector Cellular Therapy (B19a). Currently accredited facilities are listed at <a href="http://accredited.factwebsite.org/">http://accredited.factwebsite.org/</a>.

## **Active Fellowship Program (All Specialties)**

Participation in fellowship training programs represents a commitment by hospitals to provide high-quality care in a specialty area and ensure that their programs meet standards of quality. Hospitals that offer fellowship programs accredited by the Accreditation Council for Graduate Medical Education (or other advanced fellowship programs or hospital medicine fellowships) were awarded 1 point for each fellowship program that had at least one active fellow in the program in the past academic year. Each specialty has one or more programs that are considered flagship programs in their specialty. Hospitals that have at least one active fellow in these programs are awarded 2 points for each program. *Table 2* indicates fellowships credited and the number of points for each specialty.

**Table 2. Active Fellowship Programs by Specialty** 

Fellowship Program*	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterology & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Child neurology (A6a)	1				1		2				1
Neonatal-perinatal medicine (A6b)					2						
Pediatric Neurosurgery (A6c)	1						2				1
Pediatric cardiology (A6d)		2			1						
Pediatric endocrinology (A6e)	1		2								
Pediatric gastroenterology (A6f)				2	1						
Pediatric hematology-oncology (A6g)	2										
Pediatric nephrology (A6h)						2					
Pediatric neuroradiology (A6i)	1										

**Table 2. Active Fellowship Programs by Specialty (continued)** 

						ſ					
Fellowship Program*	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterology & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Pediatric pulmonology (A6j)					1				2		
Pediatric urology (A6k)	1									2	
Pediatric surgery (A6I)	1	1			1						
Pediatric infectious diseases (A6m)	1	1	1	1	1	1	1	1	1	1	
Pediatric Orthopaedic Surgery (A6n)								2			
Pediatric critical care medicine (A6o)	1	1	1	1		1	1	1	1	1	
Pediatric transplant hepatology (A6p)				1							
Pediatric rheumatology (A6q)			1					1			
Physical medicine and rehabilitation (with training in pediatrics) (A6r)		1	1	1		1	1	1	1	1	
Pediatric radiology (A6s)	1	1	1	1	1	1	1	1	1	1	
Pediatric interventional radiology (A6t)	1					1	1				
Child and adolescent psychiatry (A6u)											1
Neurodevelopmental disabilities (A6v)		1			1**		1				1
Adolescent medicine (A6w)			1	1		1					1
Developmental behavioral pediatrics (A6x)					1**		1				1
Pediatric or child and adolescent psychology (A6y)											1
Pediatric neuropsychology (A6z)	1	1					1				1
Pediatric child abuse(A6aa)	1	1	1	1	1	1	1	1	1	1	1
Pediatric critical care surgery (A6cc)					1						
Pediatric palliative care (A6dd)	1										
Sleep medicine (A6ee)							1		1		
Allergy or immunology (A6ff)	1								1		
Pediatric orthopedics (I6.1)								2			
Adolescent and young adult medicine (L38a)											2

**Table 2. Active Fellowship Programs by Specialty (continued)** 

Fellowship Program*	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterology & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Developmental behavioral pediatrics (L38b)											2
Child and adolescent psychiatry (L38c)											2
Psychology or neuropsychology (L38d)											2
Total Elements	16	10	9	9	12	9	14	10	9	7	16

<sup>\*</sup> Parenthetical references indicate related survey questions.

## Adoption of Health Information Technology (All Specialties)

In each specialty, hospitals received up to 5 points for incorporating and using electronic medical records (EMRs).

Hospitals received 1 point if the EMR identifies and reports potential adverse events for patients (A23). Hospitals that have an EMR with certain patient engagement features received up to 4 points, 1 for each of the following: online access to medical notes or records (A23.3a), ability to request a revision to medical notes or records online (A23.3b), ability to schedule visits online (A23.3c), and ability to send and receive electronic messages with medical providers (A23.3d).

## **Adult Congenital Heart Program (Cardiology & Heart Surgery)**

In Cardiology & Heart Surgery, hospitals received up to 10 points for having an adult congenital heart program. Hospitals received 1 point for providing an organized adult congenital heart program (E16). Hospitals received 1 point for having a full accreditation as an Adult Congenital Heart Association Comprehensive Care Center (E20). These programs are often provided by pediatric heart centers, which frequently have the most expertise in inherited and congenital heart disorders.

Up to 6 additional points were awarded if the adult congenital heart program provided the following: a formal program to transition patients from the pediatric to adult congenital heart program (E17a); participation by cardiothoracic surgeons (E17b), cardiothoracic interventionalists

<sup>\*\*</sup> Hospitals received a point for either Neurodevelopmental disabilities or Developmental behavioral pediatrics in Neonatology.

(E17c), and cardiothoracic electrophysiologists, who have specialty expertise in the care of adults with congenital heart disease (E17d); specialty care for high-risk obstetrics patients with congenital heart disease (E17e) and a cardiologist board certified in cardiology and in the maintenance of certification (MOC) program for Adult Congenital Heart Disease by the American Board of Internal Medicine (E17f).

Hospitals received 1 point for 1 to 49 cardiac surgical encounters<sup>‡‡</sup> on patients ages 18 and above in the past four calendar years or 2 points for 50 or more surgical encounters in the past four calendar years (E19).

## Advanced Clinical Services Offered (All Specialties, Except for Behavioral Health)

Hospitals frequently offer clinical services and organize teams or programs to address special needs of specific groups of patients. These services or programs may be organized around a particular diagnosis, need, or age group. The structure of the services or programs ensures that a range of resources is available. Specialized skills of a multidisciplinary staff improve overall quality of care, and presumably outcomes. The clinical services recognized in each specialty are described in *Table 3*. Up to eight points were awarded for having a pediatric trauma center in Neurology & Neurosurgery, Orthopedics, and Pulmonology & Lung Surgery. The trauma center measure recognizes the enhanced resources and staff available to hospitals that provide this service, which benefit other inpatient specialty care. One point was awarded for the additional services listed for each specialty.

#Specific adult cardiac surgical operations included are listed in Table 7 of the STS Congenital Heart Surgery Database for the past four reporting years.

9

**Table 3. Advanced Clinical Services Offered by Specialty** 

	Cancer (27 points)	
Service	Description*	Points
ECMO do	xtracorporeal membrane oxygenation (ECMO) program esignated as center of excellence by the Extracorporeal Life upport Organization (ELSO) (A9)	1
Sedation services •	as the following sedation services:  Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1) Provides sedation/anesthesia by pediatric specialists for radiation therapy, lumbar punctures and bone marrow biopsies (B7)	2
		17

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

Cancer, continued (27 points)								
Service	Description*	Points						
Chemotherapy support services	<ul> <li>Offers the following:</li> <li>Dedicated pediatric chemotherapy pharmacy (B15a)</li> <li>Pediatric oncology pharmacist with training and experience in pediatric chemotherapy (B15b)</li> <li>Pharmacists assigned to participate in daily inpatient rounds with the pediatric cancer treatment team (B15c)</li> <li>The APHON Chemotherapy/Biotherapy Provider training course for nurses administering chemotherapy (B15d)</li> <li>Formal chemotherapy safety program with standardized procedures and event tracking (including order misses/near-misses) (B15e)</li> </ul>							
Chemotherapy orders	1 point for the majority of orders written using word processing or spreadsheet software or using Computerized Provider Order Entry (CPOE); 2 points for CPOE with plandriven orders and formal multiple co-signatures/review required (B16)							
	Cardiology & Heart Surgery (18 points)							
Service	Description*							
ЕСМО	ECMO program designated as center of excellence by ELSO (A9)	1						
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)							
Echocardiography laboratory	Offers certified echocardiography laboratory certified by Intersocietal Commission for the Accreditation of Echocardiography Laboratories (ICAEL) or the American Institute of Ultrasound in Medicine (AIUM) (E5) in:  Transthoracic echocardiographic testing Transesophageal echocardiographic testing Fetal echocardiographic testing Has echocardiographic imagining capacity 24 hours a day that can be interpreted withing 60 mins of test (E5.1)							
Cardiovascular services	Offers these diagnostic and treatment services (E6a-i, E6k):  • Dedicated pediatric cardiac surgical operating room  • Cardiac intensive care unit  • Remote monitoring capability  • Cardiac diagnostic catheterization laboratory  • Cardiac interventional catheterization laboratory  • Cardiac related survey questions  • Dediction (E6a-i, E6k):  • Electrophysiology laboratory  • Ventricular assist program  • 24/7 ECMO  • Cardiovascular genetics clinic  • Pediatric cardiac anesthesia services	10						

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

Cardiology & Heart Surgery, continued (18 points)								
Service	Description*	Points						
Circulatory support	<ul> <li>Provided ventricular assist devices (other than ECMO and transcatheter ventricular assist devices [VADs]) for one or more patients in the past 4 years (E26)</li> <li>Placed a transcatheter VAD in the last year (E26.1)</li> </ul>	2						
	Diabetes & Endocrinology (20 points)							
Service	Description*	Points						
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)	1						
Diabetes & Endocrinology support staff	<ul> <li>Having at least 1 of the following staff with Certified Diabetes Care and Education Specialist (CDCES) certification provide diabetes education to patients:</li> <li>Nurses, pharmacists, social workers, psychologists (C5a and C5c)</li> <li>Dietitians (C5b)</li> <li>Certified exercise physiologist or Physical therapist (C5d)</li> <li>Having at least 1.0 FTE of the following staff dedicated to inpatient or outpatient pediatric endocrinology patients:</li> <li>Social workers (C6a)</li> <li>Psychologists (C6b)</li> <li>Community health workers or patient navigators (C6c)</li> <li>Genetic counselors (C7a)</li> <li>Psychiatrists (C7b)</li> <li>Pharmacists (C7c)</li> </ul>	6						
Diabetes patient services	<ul> <li>Provides the following services onsite (C9):</li> <li>Written educational protocol used to evaluate and prepare patients for use of an insulin pump</li> <li>Certified pump educators who are members of program staff who provide insulin pump training in house to patient families</li> <li>Written education protocol used to evaluate and prepare patients for use of continuous glucose monitors (CGMs)</li> <li>CGM trainers who are program staff members who provide CGM training to patient families</li> <li>Written educational program for families of new-onset diabetes patients</li> <li>Formal diabetes educational program for school nurses through a yearly school nurse education conference</li> <li>A specified RN or CDCES who is responsible for advising and supporting schools in setting up safe programs for managing diabetes</li> </ul>	7						

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

	Diabetes & Endocrinology, continued (20 points)	
Service	Description*	Points
Support services	<ul> <li>Offered the following programs or services in the last calendar year:</li> <li>Hosted or was actively involved in organizing diabetes-specific support group for parents and families (C12)</li> <li>Took a leadership role in organizing or supporting family-support groups for special populations other than diabetes (e.g., Turner syndrome) (C60)</li> <li>A Family Advisory Board that includes families of nondiabetes Endocrinology patients (C61)</li> </ul>	3
	Gastroenterology & GI Surgery (10 points)	
Service	Description*	Points
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)	1
Gastrointestinal (GI) specialists	<ul> <li>Has following specialists available for consultation 7 days a week (D8):</li> <li>Pediatric gastroenterology/liver-specialized pathologists</li> <li>Interventional radiologists with pediatric gastroenterology experience</li> <li>Pediatric anesthesiologists for endoscopy sedation/anesthesia</li> </ul>	3
GI support groups	Provides access to the following support groups (D12):  Inflammatory bowel disease  Celiac disease  Liver disease or transplant  Eosinophilic esophagitis  Chronic intestinal failure  Congenital colorectal malformation	6
	Neonatology (17 points)	
Service	Description*	Points
NICU support staff	<ul> <li>NICU-dedicated staff in these units:</li> <li>NICU-dedicated respiratory therapy team (F7a)</li> <li>NICU-dedicated registered dietitians (F7b)</li> <li>NICU-dedicated social workers (F7c)</li> <li>NICU-dedicated clinical nurse educators (CNE) (F7d)</li> <li>NICU-dedicated certified lactation consultants with the following certifications: international board-certified lactation consultant (IBCLC), certified lactation counselor (CLC), breastfeeding counselor certification (CBC) (F7e)</li> <li>NICU medical director with hospital-provided partial FTE support (F7h)</li> </ul>	6

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

Neonatology, continued (17 points)								
Service	Description*	Points						
Pediatric subspecialists	Has following subspecialists on call and available to be onsite 24/7 (F11.2):  Gastroenterologist  Nephrologist  Pediatric Ophthalmologist  Pulmonologist  Urologist  Pediatric Cardiologist  Metabolic Specialist  Infectious Disease Specialist  Pediatric Neurosurgeon  Ear, Nose, and Throat Surgeon  Pediatric Radiologist	11						
	Nephrology (9 points)							
Service	Description*	Points						
	Has at least 1 FTE of clinical nurses dedicated to	1						
Maintenance dialysis staff	maintenance dialysis (G5a) Has at least 0.5 FTE of the following staff dedicated to maintenance dialysis:  • Social workers (G5b)  • Dietitians (G5c)  • Psychologists/Psychiatrists (G5d)	3						
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)	1						
Dialysis treatment	Provides following dialysis options for acute kidney insufficiency (G7):  Hemodialysis Peritoneal dialysis Continuous renal replacement therapy	3						
Kidney transplant	United Network for Organ Sharing (UNOS)-recognized kidney transplant program (G28)	1						
Neurology & Neurosurgery (20 points)								
Service	Service Description*							
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)	1						
Pediatric trauma center	8 points for Level 1 pediatric trauma center or 4 points for Level 2 pediatric trauma center certified by American College of Surgeons or state licensing board (A19)	8						

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

Neurology & Neurosurgery, continued (20 points)						
Service	Description*	Points				
Neurology & neurosurgery support services and technology	<ul> <li>Offers the following onsite:</li> <li>Ketogenic diet program or modified diet program (including Atkins) and management program (H5c)</li> <li>An identified multidisciplinary neurocritical care team (H24)</li> <li>Multidisciplinary neonatal neurocritical care (H24.1)</li> <li>Inpatient pediatric rehabilitation program with pediatric physiatrist (H13)</li> <li>Inpatient pediatric rehabilitation program certified by Commission on Accreditation of Rehabilitation Facilities (H13.1)</li> <li>Inpatient pediatric rehabilitation program that uses a standardized tool to measure and track outcomes (H13.2)</li> <li>Routine neuropsychological testing by pediatric neuropsychologists (H14)</li> </ul>	7				
Epilepsy treatment	Offers the following:  • Electroencephalography (EEG) lab accredited by American Board of Registration of Electroencephalographic and Evoked Potential Technologists (ABRET) (H7)  • In-house EEG technologists available 24/7 on 300 or more days per year to place electrodes (H7.1)					
	Orthopedics (17 points)					
Service	Description*	Points				
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)	1				
Pediatric trauma center	8 points for Level 1 pediatric trauma center or 4 points for Level 2 pediatric trauma center certified by American College of Surgeons or state licensing board (A19)					

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

Orthopedics, continued (17 points)						
Service	Description*	Points				
Advanced care services	<ul> <li>Comprehensive pediatric orthopedic program with:         <ul> <li>Designated inpatient unit for pediatric orthopedic patients (I7)</li> </ul> </li> <li>Dedicated pediatric imaging center located in outpatient clinics (not separate facility) (I8)</li> <li>Imaging center staffed with pediatric radiologists with specialty certification in pediatric radiology by the American Board of Radiology available for real-time consultation (onsite or virtually) (I9)</li> <li>Multidisciplinary musculoskeletal oncology program (I16)</li> <li>Gait laboratory accredited by the Commission for Motion Laboratory Accreditation (CMLA) (I19.1)</li> <li>Providing seating services or wheelchair clinics for at least 1 patient with neuromuscular disorders (I43 &amp; I44)</li> </ul>	6				
Gait Laboratory	Provides a neuromuscular Advanced Motion Analyses Laboratory to patients (I19):  2 points if the lab is onsite  1 point if the lab is available through a formal contractual relationship with another hospital/institution	2				
	Pulmonology & Lung Surgery (43 points)					
Service	Description*	Points				
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)					
Pediatric trauma center	8 points for Level 1 pediatric trauma center or 4 points for Level 2 pediatric trauma center certified by American College of Surgeons or state licensing board (A19)	8				
Asthma care specialists	Access to each of the following clinical staff (J5):  Respiratory therapists  Social workers  Dietitians  Physical therapists  Psychiatrists or psychologists  Genetic counselor  Child life specialist  Pharmacist  Speech and language pathologists  Occupational therapist  Palliative care	11				

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

Pulmonology & Lung Surgery, continued (43 points)					
Service	Description*	Points			
Dedicated staff	Following cystic fibrosis center staff who attend clinic or participate in patient care conferences (J17):  Gastroenterologist  Endocrinologist  Psychiatrists or psychologists  Otolaryngologist or ear, nose, and throat specialist  Following staff who support patients with bronchopulmonary dysplasia (J28):  Dietitian  Cardiologist  Neurologist or neurodevelopmental specialist  Social worker  Physical therapist or occupational therapist  Speech language pathologist  Following staff who support patients with neuromuscular weakness disorders (J32):  Pulmonologist  Physiatrist  Orthopedist  Cardiologist  Neurologist  Physical therapist  Psychiatrist or psychologist  Psychiatrist or psychologist  Dietitian  Social worker  Pediatric radiologist	20			
Support services	<ul> <li>Offers following:         <ul> <li>Cystic fibrosis center accredited by Cystic Fibrosis Foundation (J16)</li> </ul> </li> <li>Program accredited by the Primary Ciliary Dyskinesia (PCD) foundation (J29)</li> <li>Sleep center accredited by American Academy of Sleep Medicine (J35)</li> </ul>	3			

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 3. Advanced Clinical Services Offered by Specialty (continued)** 

Urology (4 points)					
Service	Description*				
Sedation services	Designated as a Center of Excellence in Pediatric Sedation by the Society for Pediatric Sedation (A9.1)	1			
Treatment options	<ul> <li>Offers the following treatment modalities (K11):</li> <li>Stone treatment, including shock wave lithotripsy, ureteroscopy, and percutaneous nephrolithotripsy or nephrolithotomy for patients 12 and under</li> <li>Laparoscopic surgery, including cyst ablation, pyeloplasty, nephrectomy, partial nephrectomy, heminephrectomy, ureteral reimplantation, or ureteroureterostomy performed on patients 21 years or younger</li> </ul>	2			
Procedures performed	Performed at least 1 of each of the following procedures in past 5 years:  Retroperitoneal lymph node dissection for cancer diagnoses (K12.2)	1			

<sup>\*</sup> Parenthetical references indicate related survey questions.

## Advanced Technologies (All Specialties, Except for Behavioral Health)

To receive credit, hospitals must provide access to key diagnostic and treatment technologies. For the technologies listed in question A10 of the Pediatric Hospital Survey, hospitals had to offer services onsite. For other technologies, hospitals could offer the services onsite or through the hospital's health system, a local community network, or indirectly, through a contractual arrangement or joint venture with another community provider. Data are from the Pediatric Hospital Survey. The values for this measure were based on specialty-specific mixes of technology, as listed in *Table 4*. Definitions can be found in the glossary in *Appendix B*.

**Table 4. Advanced Technologies by Specialty** 

Specialty	Technologies*
Cancer (18)	<ul> <li>Positron emission tomography (PET)/magnetic resonance imaging (MRI) or PET/computed tomography (CT) scanning offered onsite (A10a or A10b)</li> <li>3-Tesla magnetic resonance imaging (3T MRI) offered onsite (A10c)</li> <li>Image-guided radiation therapy offered onsite (A10d)</li> <li>Intensity-modulated radiation therapy offered onsite (A10e)</li> <li>24/7 in-house ultrasound for emergency cases (A10f)</li> <li>Fast magnetic resonance imaging protocols (A10g)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Nuclear medicine integrated SPECT/CT (A10i)</li> <li>Contrast-enhanced ultrasound (A10j)</li> <li>Linear accelerator or other linear particle accelerator, Gamma Knife, CyberKnife, or other shaped-beam stereotactic radiation therapies (A11)</li> <li>Therapeutic meta-iodo-benzyl-guanidine with I-131 radionuclide (B8a)**</li> <li>Functional magnetic resonance (B8b)**</li> <li>Brachytherapy (B8c)**</li> <li>Stereotactic radiosurgery (B8d)**</li> <li>Intra-arterial chemotherapy or embolization for solid tumors (B8e)**</li> <li>Radiofrequency ablation and/or cryoablation (B8f)**</li> <li>Proton Beam Therapy (B8g)**</li> <li>Onsite pediatric interventional radiology team, with dedicated procedure space and equipment (B9)</li> </ul>
Cardiology & Heart Surgery (8)	<ul> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Nuclear medicine integrated SPECT/CT (A10i)</li> <li>Intraoperative transesophageal echocardiographic testing (E6j)</li> <li>Cardiac CT angiography (E7a)</li> <li>Cardiac MRI with functional cardiac imaging (E7b)</li> <li>Stress echo testing (E7c)</li> <li>Quantitative Pulmonary Perfusion Scan via nuclear medicine method scintigraphy (E7d)</li> <li>Transcatheter arrhythmia ablation methodologies (three-dimensional mapping, cryoablation or radiofrequency ablation) (E14a-c)</li> </ul>

<sup>\*</sup> Parenthetical references indicate related survey questions. (continued)
\*\* These technologies in Cancer could be provided at an affiliated center within 25 miles of the hospital.

**Table 4. Advanced Technologies, by Specialty (continued)** 

Specialty	Technologies*							
Diabetes & Endocrinology (10)	<ul> <li>PET/MRI or PET/CT scanning offered onsite (A10a or A10b)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Nuclear medicine integrated SPECT/CT (A10i)</li> <li>Diagnostic radioisotope scan (C51a)</li> <li>Therapeutic radioiodine treatment for Graves' disease (C51b)</li> <li>Therapeutic radioiodine treatment for thyroid cancer (C51c)</li> <li>Ultrasound guided fine needle biopsy or aspiration of thyroid nodule (C51d)</li> <li>Thyroidectomy (C51e)</li> <li>Intraoperative PTH assay (C51f)</li> <li>Intravenous bisphosphonate therapy (C51g)</li> </ul>							
Gastroenterology & GI Surgery (19)	<ul> <li>PET/MRI or PET/CT scanning offered onsite (A10a or A10b)</li> <li>24/7 in-house availability of ultrasound for emergency cases (A10f)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Nuclear medicine integrated SPECT/CT (A10i)</li> <li>Contrast-enhanced ultrasound (A10j)</li> <li>Magnetic resonance cholangiopancreatography (D7a)</li> <li>Magnetic resonance enterography (D7b)</li> <li>Ultrasound elastography (USE) (D7c) or magnetic resonance elastography (MRE) (D7d)</li> <li>Contrast-enhanced ultrasound for liver lesion characterization (D7e)</li> <li>Capsule endoscopy (D11a)</li> <li>Endoscopic band ligation/sclerotherapy (D11b)</li> <li>Esophageal impedance or resolution esophageal manometry (D11c)</li> <li>Endoscopic retrograde cholangiopancreatography (D11d)</li> <li>Antroduodenal and full colonic motility studies (D11e)</li> <li>Esophageal dilation, either bougie or pneumatic (D11f)</li> <li>Alternative Hemostasis Therapies (Electrocautery, Hemo-Clip application, and Argon plasma coagulation) (D11g)</li> <li>Deep enteroscopy-single or double balloon (D11h)</li> <li>Endoscopic ultrasound (D11i)</li> <li>Sedation-free transnasal endoscopy (D11j)</li> </ul>							

<sup>\*</sup> Parenthetical references indicate related survey questions.

Table 4. Advanced Technologies, by Specialty (continued)

Specialty	Technologies*
Neonatology (15)	<ul> <li>PET/MRI or PET/CT scanning offered onsite (A10a or A10b)</li> <li>Fast magnetic resonance imaging protocols (A10g)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Continuous video EEG monitoring and reading with telemetry capability and with interpretation and consult by a pediatric neurologist (F12a)</li> <li>Less than 24-hour turnaround time for HSV PCR for cerebrospinal fluid (F12b)</li> <li>Formal mechanism to order and send samples for whole genome or whole exome sequencing and then provide interpretation and counseling of the results within 10-days (F12c)</li> <li>Less than 24-hour turnaround time for comprehensive respiratory viral molecular testing (F12d)</li> <li>Less than 24-hour turnaround time for amino acid analysis available (F12e)</li> <li>Less than 24-hour turnaround time for urine organic acid available (F12f)</li> <li>Rapid (within 6 hours) identification system for positive blood cultures to enable differentiation of key gram-positive bacterial pathogens by genus and major mechanisms of resistance (F12g)</li> <li>Rapid (within 6 hours) identification system for positive blood cultures to enable differentiation of key gram-negative bacterial pathogens by genus and major mechanisms of resistance (F12h)</li> <li>Fluoroscopic procedures (upper GI, contrast enema, esophagram, and contrast voiding studies) conducted or supervised on-site by Pediatric Radiologists (F12i)</li> <li>Rapid identification system (within 24 hours) for bacterial/viral infection in CSF (Meningitis Encephalitis Panel) (F12j)</li> <li>Less than 24-hour turnaround time for rapid plasma reagin (RPR) (F12k)</li> <li>Pediatric echosonographer and pediatric cardiologist available to obtain and interpret echocardiogram imaging 24/7 (F12l)</li> </ul>
Nephrology (1)	PET/MRI or PET/CT scanning offered onsite (A10a or A10b)

<sup>\*</sup> Parenthetical references indicate related survey questions.

Table 4. Advanced Technologies, by Specialty (continued)

Specialty	Technologies*							
Neurology & Neurosurgery (19)	<ul> <li>PET/MRI or PET/CT scanning offered onsite (A10a or A10b)</li> <li>3T MRI offered onsite (A10c)</li> <li>Fast magnetic resonance imaging protocols (A10g)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Nuclear medicine integrated SPECT/CT (A10i)</li> <li>Neurophysiological intraoperative monitoring (H5a)</li> <li>Source localization using high-density EEG and tailored software program(s) (H5b)</li> <li>Functional MRI (H5d)</li> <li>Availability of continuously (24/7/365) observed 10-12 system EEG monitoring by EEG technicians, with 24/7 availability for review by a neurophysiologist (H5e)</li> <li>Nuclear medicine brain SPECT or brain PET scanning (H5f)</li> <li>Functional mapping capability and/or diffusion tensor imaging (DTI) evaluation (H5g)</li> <li>Stereotactic EEG capabilities (H5h)</li> <li>Transcranial magnetic stimulation (H5i)</li> <li>Wada Testing (H5j)</li> <li>Deep Brain Stimulation (H5k)</li> <li>Responsive neurostimulation (RNS) for medically intractable epilepsy (H5l)</li> <li>Gene therapy treatment for spinal muscular atrophy (SMA) (H5m)</li> <li>Gene therapy treatments for neurological diseases other than spinal muscular atrophy (H5n)</li> <li>Access to MEG for epilepsy evaluation integrated into the care plan of patients (H5o)</li> </ul>							
Orthopedics (3)	<ul> <li>PET/MRI or PET/CT scanning offered onsite (A10a or A10b)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Nuclear medicine integrated SPECT/CT (A10i)</li> </ul>							
Pulmonology & Lung Surgery (2)	<ul> <li>PET/MRI or PET/CT scanning offered onsite (A10a or A10b)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> </ul>							
Urology (8)	<ul> <li>PET/MRI or PET/CT scanning offered onsite (A10a or A10b)</li> <li>Dedicated interventional radiology team offered onsite (A10h)</li> <li>Nuclear medicine integrated SPECT/CT (A10i)</li> <li>Contrast-enhanced ultrasound (A10j)</li> <li>Dedicated laparoscopic skills lab for faculty and trainees (K7a)</li> <li>Video pediatric urodynamic fluoroscopy (K7b)</li> <li>Nuclear Medicine functional assessment of upper urinary tract function and scarring (K7c)</li> <li>Contrast-enhanced voiding urosonography (ceVUS) (K26)</li> </ul>							

<sup>\*</sup> Parenthetical references indicate related survey questions.

## **Bone Marrow Transplant Services (Cancer)**

In Cancer, hospitals could receive up to 12 points for having a stem cell transplant program. Stem cell transplants are critical in treating a variety of cancers:

- Hospitals received 1 point for having a stem cell transplant unit with pediatric nurses and physicians specially trained in transplant (B17).
- Hospitals received up to 3 points for offering various stem cell transplant services: autologous stem cell transplantation (B18a), allogeneic matched (related or unrelated) transplantation or haploidentical (half-matched) transplantation (B18b), and cellular therapy infusions (B18c).
- Hospitals received up to 6 points based on transplant volume (B18). For each of the three types of transplantation listed above, hospitals received points as follows for all transplants: 1 point for conducting from 2 to 10 transplants in the past 3 years and 2 points for conducting 11 or more transplants in the past 3 years.
- Hospitals received up to 2 points for transplant center recognition by the National Marrow Donor Program (B19b) and for membership in the Pediatric Transplant and Cellular Therapy Consortium (B19c).

## **Clinical Support Services Offered (All Specialties)**

Many hospitals provide access to medical and surgical clinical support services through the hospital's health system, a local community network, or a contractual arrangement or joint venture with another provider in the community. On- and offsite services received equal credit. For all specialties, except for Behavioral Health, up to 16 services are included in the clinical support services, depending on specialty. Data came from the Pediatric Hospital Survey. For eligible hospitals, specialty-specific mixes of medical and surgical services are used in computing the points for this measure. *Table 5* presents the complete list of medical and surgical services considered for each specialty, except for Behavioral Health. Definitions can be found in the glossary in *Appendix B*.

**Table 5. Clinical Support Services by Specialty (Except Behavioral Health)** 

									_	
Clinical Support Service*	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterology & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology
Neonatal intensive care unit (A7a)	•	•	•	•		•	•	•	•	•
Pediatric intensive care unit (A7b)	•	•	•	•		•	•	•	•	•
Patient care rooms with protective environment (A7c)	•									
Genetic testing/counseling (A7d)	•		•	•	•					
Palliative care program (A7e)	•	•	•	•	•	•	•	•	•	•
Rehabilitation program and consultation service (A7f)	•	•	•	•		•	•	•	•	•
Maternal fetal medicine or fetal treatment program (A7g)					•		•			
Sport injury prevention program (A7h)								•		
Pediatric physiatrist or rehabilitation specialist (A7i)	•	•	•	•		•	•	•	•	•
Vascular tumor program (A35)	•	•	•	•	•	•	•	•	•	•
Rapid-response team available onsite 24/7 (A8a)	•	•	•	•		•	•	•	•	•
Pediatric anesthesia program available onsite 24 hours a day (A8b)	•	•	•	•	•	•	•	•	•	•
Pediatric pain management program available onsite 24/7 (A8c)	•	•	•	•	•	•	•	•	•	•
Multidisciplinary pediatric acute pain/sedation service available onsite 24/7 hours a day (A8d)	•	•		•	•	•	•	•	•	•
Recognized Tuberous Sclerosis Complex (TSC) Alliance Clinical Center (H21b)							•			
Dedicated FTE support for the medical director of kidney transplantation (G44)						•				
Total Elements	12	10	10	11	7	11	12	11	10	10
* Parenthetical references indicate	1 1									

<sup>\*</sup> Parenthetical references indicate related survey questions.

For the Behavioral Health specialty, the following medical and surgical services were considered when awarding points, with equal credit for on- and offsite services:

- Provide coordination of care to ensure that the patient has a follow-up plan postdischarge for the identified behavioral health concern(s) (L19a)
- Schedule or offer follow-up appointments within 7 days (inpatient psychiatric unit discharge) with a licensed behavioral health provider in the institution's behavioral health program or within the community (L19b)
- Provide a list of psychiatric medications to the patient's licensed behavioral health provider and their primary care provider within the institution or the community (L19c)
- Provide the family with any psychiatric prescriptions and a list of medications prescribed, at the time of discharge (L19d)
- Provide discharge summary to the patient's licensed behavioral health provider and their primary care provider within the institution or the community (L19e)
- Communicate with patients' licensed behavioral health provider and/or primary care provider if there has been stated concern that the patient was a potential danger to self or had significant impairing challenges that impacted functioning (e.g., self-injurious behaviors, aggression) (L19f)
- For patients with concerns of suicidality during hospitalization, evaluate for suicide risk at time of discharge (i.e., determine there is no acute risk of suicidal behavior prior to discharge from hospital) (L19g)
- Make post-discharge follow-up calls for discharged patients to determine whether
  they have followed through with discharge recommendations and have seen their
  new licensed behavioral health provider OR reestablished care with their current
  behavioral health provider (L19h)
- Provide coordination of care to ensure that the patient has a follow-up plan postdischarge for the identified behavioral health concern(s) (L20a)
- Schedule or offer follow-up appointments within 30 days (inpatient medical unit discharge) with a licensed behavioral health provider in the institution's behavioral health program or within the community (L20b)
- Provide a list of psychiatric medications to the patient's licensed behavioral health provider and their primary care provider within the institution or the community (L20c)

- Provide the family with any psychiatric prescriptions and list of medications prescribed, at the time of discharge (L20d)
- Provide a discharge summary to the patient's licensed behavioral health provider and their primary care provider within the institution or the community (L20e)
- Communicate with patient's licensed behavioral health provider and/or primary care provider if there has been stated concern that the patient was a potential danger to self or had significant impairing challenges that impacted functioning. (e.g., self-injurious behaviors, aggression) (L20f)
- For patients with concerns of suicidality during hospitalization, evaluate for suicide risk at time of discharge (i.e., determine there is no acute risk of suicidal behavior prior to discharge from hospital) (L20g)
- Make post-discharge follow-up calls for discharged patients to determine whether they have followed through with discharge recommendations and have seen their new licensed behavioral health provider OR reestablished care with their current behavioral health provider (L20h)

#### **Commitment to Clinical Research (All Specialties)**

Networks, clinical trials and other research activities advance the ability of the field to treat pediatric patients and also enhance care by making new or novel treatments available at centers that participate in such research.

Cancer (16 points). Hospitals received up to 16 total points for participating in clinical research activities such as clinical trials or other translational research activities. Hospitals received up to 3 points for participating in cancer research networks such as the Children's Oncology Group (B24a), National Cancer Institute (NCI) Phase 1/Pilot Consortium (B24b), or another cancer-related organized clinical research network (B24d). Hospitals could receive up to an additional 3 points for NCI designation: 3 points if the hospital is an NCI-designated center (B24c), 2 points if the hospital is an NCI consortium partner (B24.1), or 1 point if the hospital is an affiliate of an NCI-designated cancer center (B24.1). Hospitals received 1 point for enrolling at least two patients in a Phase I clinical trial and 1 point for enrolling at least three patients in a Phase II clinical trial (translational research) during the past 2 years (B25). Hospitals received up to 5 points for engaging in clinical trials in these specific areas: leukemia/lymphoma only (B26a), solid tumors only (B26b), central nervous system (CNS) tumors only (B26c), transplants only (B26d), and trials that are not disease-specific (B26e). Hospitals could receive an additional 1 point by demonstrating the depth of their involvement in any of the clinical trials (B26.1). Hospitals also received up to 2 points for publishing a peer-reviewed publication (B37); 1 point if the number of publications is at least one for every four

pediatric hematologists/oncologists (B2a) and 1 point if the number of publications is at least one for every four pediatric radiation oncologists (B2c).

Cardiology & Heart Surgery (5 points). Hospitals received points for participating in externally audited, national quality improvement research networks. Hospitals received up to 3 points for participating and contributing data organizations. Hospitals were awarded 1 point for participating in one, two, or three of the following organizations, 2 points for participating in four, five, or six of the following organizations, or 3 points for participating in more than six of the following organizations:

- Society of Thoracic Surgeons (E29a)
- Congenital Heart Surgeons' Society (E29b)
- National Pediatric Cardiology Quality Improvement Collaborative (E29c)
- Congenital Cardiac Anesthesia Society database (E29d)
- ELSO registry (E29e)
- Pediatric Cardiac Critical Care Consortium or Virtual Pediatric ICU System (E29f)
- Pediatric Heart Transplant Study (E29g)
- Cardiac Neurodevelopmental Outcome Collaborative (CNOC) (E29h)
- Pediatric Acute Care Cardiology Collaborative (PAC3) (E29i)
- Pedimacs Registry (FDA Database for Ventricular Assist Devices) "and/or" ACTION Learning Network (E29j)
- ACC QNET program (E29k)
- Fetal Heart Society (E29l)
- Fontan Outcome Network (E29m)
- The Consortium of Congenital Cardiac Care-Measurement of Nursing Practice (C4-MNP) (E29n)
- Other externally audited national quality improvement initiatives (E29o/E29.1)

Hospitals received up to 2 additional points based on the number of types of investigative studies they participate in (E30). Hospitals were awarded 1 point for participating in one or two of the following types of studies or 2 points for participating in three or more of the following types of studies: single institution retrospective studies, multi-institutional retrospective studies, basic science

studies with extramural funding, prospective clinical trials or studies with industry funding, or prospective clinical trials or studies with competitive extramural funding.

**Diabetes & Endocrinology (3 points).** Hospitals received up to 3 points based on the number of active studies or trials that are either physiologic studies or give patients access to novel, unlabeled medications, diagnostic/monitoring devices or treatment options (C67/C68). Hospitals received 1 point for participating in 1 to 8 studies, 2 points for participating in 9 to 30 studies, or 3 points for participating in 31 or more studies in the past year.

Gastroenterology & GI Surgery (7 points). Hospitals received up to 4 points for participating in externally audited, national quality improvement research networks. Hospitals received 1 point each for participating in prospective research activities: randomized clinical trials (D15a), observational studies (D15b), clinical databases on patient care (D15c), or nonrandomized clinical trials (D15d). Hospitals received up to 3 additional points for having Institutional Review Board (IRB)-approved studies being led by the Pediatric Gastroenterology & GI Surgery or Pediatric Surgery programs (D16): 1 point for 1 to 5 studies, 2 points for 6 to 9 studies, or 3 points for 10 or more studies.

**Neonatology (4 points).** Hospitals received up to 4 total points for participating in externally audited, national NICU treatment and quality improvement research networks. Hospitals received up to 3 points for participation in the following organizations:

- Vermont Oxford Network, Children's Hospitals Neonatal Consortium or Child Health Corporation of America database (F24a)
- ELSO data exchange network/registry (F24b)
- Other clinical research or data exchange program (F24c/24.1)

Hospitals received 1 additional point for participating in clinical research activities, registered on clinicaltrials.gov, that allow patients access to novel medications or experimental treatment options (F25).

**Nephrology (4 points).** Hospitals received points for participating in externally audited national quality improvement research networks. Hospitals received 1 point for participating in specialty-specific clinical research activities that allow patients access to novel medications or experimental treatment options in the past 2 years (G39). Hospitals received up to 3 additional points for participation in research and quality improvement collaboratives. Hospitals were awarded 1 point for participating in one to two of the following collaboratives, 2 points for participating in three to five of the following collaboratives, or 3 points for participating in six or more of the following collaboratives:

- Midwest Pediatric Nephrology Consortium or Pediatric Nephrology Research Consortium (G40a)
- International Pediatric Dialysis Network (G40b)
- North American Pediatric Renal Trials and Collaborative Studies (G40c)
- Nephrotic Syndrome Study Network (G40d)
- Cure GN (G40e)
- Chronic Kidney Disease in Children cohort study (G40f)
- Standardizing Care to Improve Outcomes in Pediatric End-stage Renal Disease (SCOPE) collaborative (G40g)
- Neonatal Kidney Collaborative (G40h)
- Improving Renal Outcomes Collaborative (G40i)

Neurology & Neurosurgery (8 points). Hospitals received 1 point for belonging to each of the following networks: Neurofibromatosis Clinic Network (NFCN) (H21a) and Mitochondrial Care Network (H21c). Additionally, hospitals received up to 6 points for actively enrolling or studying patients in unique, IRB-approved pediatric clinical studies, trials, registries, or databases (H6). Hospitals received up to 3 points for each NIH-funded and non–NIH funded activity as follows: 1 point for 1-9 studies, 2 points for 10-19 studies, or 3 points for 20 or more studies.

*Orthopedics (1 point).* Hospitals received 1 point for participating in one or more IRB-approved trials, studies, or databases, such as prospective randomized clinical trials, prospective observational studies, or prospective clinical database on patient care (I38).

Pulmonology & Lung Surgery (3 points). Hospitals received 1 point for participating in one or more IRB-approved trials, studies, or databases, such as prospective randomized clinical trials, prospective observational studies, or prospective clinical database on patient care (J51). Hospitals received 2 points for being a member of all four of the following research networks, or 1 point for being a member of at least one but fewer than four of the following research networks: Children's Interstitial Lung Disease Foundation (J52a); Therapeutics Development Network of the CF Foundation (J52b); PCD Foundation Clinical and Research Centers Network (J52c); and BPD Collaborative with direct involvement by the Pediatric Pulmonology and Lund Surgery program (J52d).

*Urology (4 points).* Hospitals received up to 4 total points for participating in the following prospective research activities: randomized clinical trials (K18a), observational studies (K18b), clinical databases on patient care (K18c), or clinical collaboration to track and improve clinical outcomes (K18d).

Behavioral Health (4 points). Hospitals received up to 4 total points for participating in the following prospective research activities: 1 point each for participating in collaborative research networks with a primary focus on behavioral health (L9), or clinical trials or novel treatments for specific behavioral health conditions (L10), and up to 2 points for actively enrolling patients in IRB-approved trials, studies, registries, or databases (L35).

### **Commitment to Quality Improvement (All Specialties)**

Hospitals received points in all specialties for participation in quality improvement activities. Such activities promote internal review and improvement programs and procedures that often lead to improvements in care. The number of points varies by specialty from 18 to 23 points. In all specialties, hospitals could receive up to 5 points for participating in the following quality improvement activities:

- 1 point for publicly reporting performance data on one or more quality metrics (A16 and A16.1);
- up to 2 points for sponsoring quality improvement activities that provide credit to physicians for MOC Part IV (A17):
  - 2 points for being approved by the American Board of Medical Specialties (ABMS) as a multispecialty portfolio program (MSPP) sponsor, or for being approved by the American Board of Pediatrics (ABP) as a pediatric portfolio sponsor;
  - o 1 point for sponsoring one or more projects that are approved by the ABP;
- up to 2 points for having a physician or nurse serve as a designated Chief Quality/Safety Officer (A41):
  - o 2 points for at least .50 FTE;
  - o 1 point for at least .25 FTE but less than .50 FTE.

In all specialties, hospitals received up to 7 additional points for implementing specialty-specific quality measures (B23/B23.1, C53/C53.1, D25/D25.1, E28/E28.1, F27/F27.1, G11/G11.1, H23/H23.1, I11/I11.1, J45/J45.1, K5/K5.1, L11/L11.1). These include 1 point each for developing a plan for quality and safety within the program that is reviewed at least annually to assess progress and need for change, determining appropriate performance-based metrics for clinical

quality, tracking and reporting patient data and other supporting information to leadership at least quarterly, presenting results of clinical quality performance metrics to clinical staff at least quarterly, engaging in one or more quality improvement initiatives specific to each specialty, demonstrating how the improvement initiative improved the quality of care, and reporting quality improvement/performance metrics to hospital leadership at least quarterly. In Behavioral Health, hospitals received up to 1 additional point for holding programmatic meetings across the main disciplines at least quarterly (L11g).

In all specialties (except for Behavioral Health), hospitals received up to 5 points for displaying data on the hospital website for each of the following quality metrics (A52): central line–associated bloodstream infection (CLABSI), hand hygiene compliance, patient experience, surgical site infection after specified procedures, and other quality metrics. Additionally, in all specialties (except for Behavioral Health) hospitals received up to 2 points for participating in national quality and safety collaboratives such as the American College of Surgeons National Surgical Quality Improvement Program(NSQIP), Children's Hospital Solutions for Patient Safety learning network, American College of Surgeons (ACS) Children's Surgery Program, or Child Health Patient Safety Organization (or other PSO) (A30a-e, A30.1): 2 points for participating in more than one of the collaboratives and 1 point for participating in only one of the collaboratives.

In Cancer, hospitals received an additional 2 points (21 points total): 1 point for participating in the Solutions for Patient Safety or other formal consortia for pediatric cancer-related organized quality improvement (B23.2) and 1 point for having a pediatric cancer quality committee with an identified medical leader/director that meets at least monthly (B23.4).

In Diabetes & Endocrinology, hospitals received an additional 1 point (20 points total) for supporting development of a physician-led innovation to improve healthcare delivery for Pediatric Endocrinology patients (C66).

In Gastroenterology & GI Surgery, hospitals received an additional 1 point (20 points total) for participating in any formal, multicenter (three or more institutions) initiatives targeted to GI or liver disorders (D14 and D14.1).

In Neonatology, hospitals received up to 4 additional points (23 points total) if the quality initiatives (QI) included having a specified quality improvement or safety leader and including a parent or family member. Hospitals received 1 point for having a safety leader with formal training in QI and less than 0.5 FTE devoted to quality improvement or safety and 2 points for 0.5 FTE or more (F28). Hospitals received 1 point for having a parent/family member of a former NICU patient involved in one or more initiatives as an integral member of the QI/safety team (F28.1).

Hospitals received 1 point for offering a structured program for ongoing quality improvement and/or clinical pathway development at referring hospitals within their region.

In Nephrology, hospitals received an additional 1 point (20 points total) for having a system in place to identify and track the frequency of hospital-acquired Acute Kidney Injury (AKI) and describing how this information is tracked and used to reduce the frequency of hospital-acquired AKI (G42 and G42.1).

In Behavioral Health, hospitals received an additional 5 points (18 points total). Hospitals received 1 point for actively engaging each of the four specialties that comprise Behavioral Health in quality improvement projects designed to improve care (L11.2). Hospitals received an additional point for having an active quality improvement project designed to reduce staff injuries in the delivery of care to patients (L32d).

#### **Congenital Heart Program (Cardiology & Heart Surgery)**

In Cardiology & Heart Surgery, hospitals received up to 24 points for having a congenital heart program. Hospitals were rewarded for tracking and reporting data for their congenital heart surgery program and for the volume and type of congenital heart surgeries offered:

- Hospitals received 1 point for having at least one congenital heart surgeon who actively participated in 75 or more congenital heart procedures as primary or first assistant in the past calendar year or 2 points for having two or more surgeons (E39).
- Hospitals could receive up to 8 points based on the mechanism for determining and reporting volume and outcomes measures. For each of the past four reporting years, hospitals received 2 points each year for reporting to the Society of Thoracic Surgeons (STS) Congenital Heart Surgery Database or 1 point for reporting to another organization (E18).
- Hospitals received 1 point for treating one to four patients with a Berlin Heart or other ventricular assist device or 2 points for treating five or more patients (E26).
- Hospitals received up to 8 points based on the number of cardiac surgical procedures performed in the operating room in the four reporting years: 1 point for 1-124 surgeries/year or 2 points for 125 or more surgeries/year (E38).
- Hospitals received up to 3 points based on the number of neonatal cardiac operations: 1 point for 1-44 operations, 2 points for 45-89 operations, or 3 points for 90 or more operations (E20.1).

 Hospitals received 1 point if they conduct Transcatheter Aortic Valve Replacement (TAVR) (E13).

#### **ECMO Availability (Neonatology)**

In Neonatology, hospitals received up to 2 points for extracorporeal membrane oxygenation (ECMO) services. ECMO technology involves a pump that circulates blood through an artificial lung back into the bloodstream of a very ill neonate, essentially providing heart-lung bypass support outside the child's body.

Hospitals received 1 point for having an ECMO program designated by ELSO as a Center for Excellence (A9).

Hospitals received 1 point for having a specialized multidisciplinary ECMO team with neonatologists managing or co-managing the patient (F14d).

# Emergency Department and Urgent Care for Behavioral Health (Behavioral Health)

In Behavioral Health, hospitals received up to 14 points for services that hospitals offer for behavioral health within the Emergency Department (ED) and/or urgent care.

- Hospitals received 4 points if they had a specialized Psychiatric ED, 3 points if they have a General ED with dedicated behavioral health staff onsite, 2 points if they have a General ED with behavioral health staff on call, and one point if they have a General ED without coverage for behavioral health (L21).
- Hospitals received points for providing the following methods to assess patients in the ED who indicated potential danger to themselves or had significant impairing challenges that impacted functioning (L22):
  - o 3 points if in-person assessments are used by behavioral health staff
  - o 2 points if video or televideo conference assessments are used by behavioral health staff
  - 1 point if telephone call assessments (without video) are used by behavioral health staff
- Hospitals received 1 point each (for a total of 7 points) for the following discharge practices in their ED (L23):
  - Providing coordination of care to ensure follow-up plan for the behavioral health concern

- O Scheduling, offering, or confirming a follow-up appointment within 7 days with a licensed behavioral health provider
- Providing a list of medications to the patient's licensed behavioral health provider and primary care provider, if applicable
- o Providing a discharge summary to the patient's licensed behavioral health provider and primary care provider
- Communicating with the primary care provider if the patient presented as a potential danger to self
- Performing an assessment of suicidality if risk of suicide was identified as a reason for the visit
- Making post-discharge follow-up calls to determine whether patients had followed through with discharge recommendations and had seen their new licensed behavioral health provider or reestablished care with their current behavioral health provider

#### **Enlists Families in Structuring Care (All Specialties)**

This measure reflects the extent to which a hospital involves parents and families in care. It includes a core set of measures that applied to all pediatric specialties and was worth up to 7 points in all specialties except Neonatology, in which 8 points were possible. Hospitals received 1 point for having a parent advisory committee that meets one to three times a year or 2 points for having a committee that meets (either in person or virtually) four or more times a year (A14.1).

Hospitals received up to 4 additional points for meeting the following requirements: At least one parent or family member is an active member of the strategic or facility committee (A15a); at least one parent or family member is an active member of one or more standing committees (e.g., quality improvement, patient safety, ethics) (A15b); parents or family members are regularly involved in clinical decision-making through such ways as family-centered rounds, care conferences, or other participatory programs (A15c); and parents or family members can participate in family-centered rounds (A15d).

Hospitals received 1 additional point for describing the impact of patients' family members on advisory committees (A15.1).

In Neonatology, hospitals could receive 1 additional point (for a total of 8 points) for having a NICU-specific parent advisory committee that meets at least quarterly (F9).

### **Has Full-time Subspecialists Available (All Specialties)**

This measure evaluates the presence of a variety of physician specialists, surgeons, and dedicated full-time medical staff who are critical to the delivery of appropriate care by pediatric hospitals. *Table 6* identifies the relevant specialists, surgeons, and other medical staff for each pediatric specialty. Hospitals received 1 point for each appropriate specialist or surgeon and 1 point for having at least 1.0 FTE of the other medical staff relevant to the specialty.

**Table 6. Subspecialists by Specialty** 

Cancer* (22 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist (A4c)</li> <li>Radiologist specializing in pediatric interventional radiology (A4d)</li> <li>Pediatric infectious disease specialist (A4f)</li> <li>Radiologist specializing in pediatric neuroradiology (A4g)</li> <li>Pediatric pathologist (A4h)</li> </ul>	7
Having at least one of each of the following pediatric surgeons:  Pediatric otolaryngology surgeon (A5a) Pediatric cardiothoracic surgeon (A5b) Pediatric general surgeon (A5c) Pediatric neurosurgeon (A5d) Pediatric ophthalmology surgeon (A5e) Pediatric orthopedic surgeon (A5f) Pediatric urology surgeon (A5g) Pediatric plastic surgeon (A5h) Vascular surgeon with pediatric experience (A5j) Pediatric critical care surgeon (A5k) Pediatric and adolescent gynecology (PAG) surgeon (A5m)	11
<ul> <li>Having at least 1.0 FTE of the following other medical staff:</li> <li>Pediatric hematologists/oncologists (B2a)</li> <li>Other attending on-staff physicians with specific involvement in pediatric cancer program (B2b)</li> <li>Pediatric radiation oncologists (B2c)</li> <li>Nurse practitioner and/or physician assistant (B3a and B3b)</li> </ul>	4

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 6. Subspecialists by Specialty (continued)** 

Cardiology & Heart Surgery* (23 points)	Points
Having at least one of each of the following physician specialists:  Pediatric anesthesiologist (A4a)  Pediatric critical care specialist (A4b)  Pediatric radiologist specializing in diagnostic radiology (A4c)  Radiologist specializing in pediatric interventional radiology (A4d)	5
<ul> <li>Pediatric infectious disease specialist (A4f)</li> <li>Having at least one of each of the following pediatric surgeons:</li> <li>Vascular surgeon with pediatric experience (A5j)</li> <li>Pediatric critical care surgeon (A5k)</li> </ul>	2
<ul> <li>At least 2.0 FTE of the following staff:</li> <li>Pediatric cardiothoracic surgeon (E2a)</li> <li>Pediatric cardiac intensivists (cardiologists, pediatric critical care or anesthesiologists) or pediatric radiologists (E2b, E2c, E2d, or E2h)</li> <li>Pediatric cardiac interventionalists (E2e)</li> </ul>	3
<ul> <li>At least 1.0 FTE of the following staff:</li> <li>Pediatric cardiac electrophysiologist (E2f)</li> <li>Pediatric cardiac intensivist: Anesthesiologist with pediatric cardiac anesthesia and pediatric cardiac intensive care training/experience (E2d)</li> <li>Cardiologist with subspecialty certification in adults with congenital heart disease (E2i)</li> <li>Clinical nurse, advanced registered nurse practitioner, advanced practice registered nurse, or physician assistant (E4a, E4b, and E4c)</li> </ul>	4
<ul> <li>Up to 2 points for 24/7 in-house coverage of the cardiac ICU:</li> <li>2 points if staffed with pediatric intensivists; pediatric cardiology, pediatric cardiac intensive care or pediatric cardiac surgery trainees; or non-physician advanced practice providers (APPs) dedicated to cardiac intensive care management (E3.1)</li> <li>1 point if staffed with other medical staff (E3.1 and E3.2)</li> </ul>	2
Up to 3 points for the type of 24-hour in-house coverage provided every day to the cardiac-specific ICU (E3):  3 points for having a dedicated Cardiac ICU (CICU)  2 points for having a dedicated section of a Pediatric ICU (PICU) and/or NICU  1 point for having a PICU and/or NICU without a dedicated CICU section	3
Having a mechanism where neonatologists actively participate in neonatal cardiac care in the cardiac-specific ICU (E3.3)	1
<ul> <li>Having eligible RNs working in the CICU (or dedicated beds in the PICU) meet the following thresholds:</li> <li>Less than 20% with less than 2 years of cardiac critical care experience (E4d)</li> <li>At least 80% with a Bachelor of Science in Nursing (BSN) or higher degree (E4e)</li> <li>At least 10% with CCRN certification for critical care nursing from the American Association of Critical-Care Nurses (AACN) (E4f)</li> </ul>	3

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 6. Subspecialists by Specialty (continued)** 

Diabetes & Endocrinology* (14 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Radiologist specializing in pediatric interventional radiology (A4d)</li> <li>Pediatric rheumatologist (A4e)</li> <li>Pediatric infectious disease specialist (A4f)</li> <li>Having at least one of each of the following pediatric surgeons:</li> </ul>	6
<ul> <li>Pediatric head and neck surgeon (A5a)</li> <li>Pediatric general surgeon (A5c)</li> <li>Pediatric neurosurgeon (A5d)</li> <li>Pediatric critical care surgeon (A5k)</li> <li>PAG surgeon (A5m)</li> </ul>	5
<ul> <li>At least 1.0 FTE of the following staff:</li> <li>Pediatric endocrinologist (C2a)</li> <li>Nurse practitioner and/or physician assistant (C3)</li> <li>Registered nurse (C4)</li> </ul>	3
Gastroenterology & GI Surgery* (13 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Radiologist specializing in pediatric interventional radiology (A4d)</li> <li>Pediatric infectious disease specialist (A4f)</li> </ul>	5
Having at least one of each of the following pediatric surgeons:  • Pediatric general surgeon (A5c)  • Pediatric critical care surgeon (A5k)  • Liver transplant surgeon with pediatric experience (A5I)  • PAG surgeon (A5m)	4
<ul> <li>Having at least 1.0 FTE of the following other medical staff:</li> <li>Pediatric gastroenterologist (D2a)</li> <li>Pediatric surgeon available 7 days a week (D2.2)</li> <li>Nurse practitioner and/or physician assistant (D3)</li> <li>Dedicated social workers (D3.1a), dedicated psychologists (D3.1b), dedicated dietitians (D3.1c), or dedicated patient care coordinators (D3.1d)</li> </ul>	4
Neonatology* (18 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Radiologist specializing in pediatric interventional radiology (A4d)</li> <li>Pediatric infectious disease specialist (A4f)</li> <li>Radiologist specializing in pediatric neuroradiology (A4g)</li> <li>* Parenthetical references indicate related survey questions.</li> </ul>	6 continued

**Table 6. Subspecialists by Specialty (continued)** 

Neonatology* (18 points) (continued)	Points
Having at least one of each of the following pediatric surgeons:  Pediatric head and neck surgeon (A5a)  Pediatric cardiothoracic surgeon (A5b)  Pediatric general surgeon (A5c)  Pediatric neurosurgeon (A5d)  Pediatric ophthalmology surgeon (A5e)  Pediatric orthopedic surgeon (A5f)  Pediatric urology surgeon (A5g)  Pediatric plastic surgeon (A5h)  PAG surgeon (A5m)	9
<ul> <li>Having at least 1.0 FTE of the following other medical staff:</li> <li>Pediatric neonatologist (F2a)</li> <li>Clinical registered nurse (F4a)</li> </ul>	2
Having at least one advanced practice provider (F3)	1
Nephrology* (9 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Radiologist specializing in pediatric interventional radiology (A4d)</li> <li>Pediatric infectious disease specialist (A4f)</li> </ul>	5
<ul><li>Having at least one of the following pediatric surgeons:</li><li>Pediatric general surgeon (A5c)</li><li>PAG surgeon (A5m)</li></ul>	2
Having at least 1.0 FTE of the following other medical staff:  • Pediatric nephrologist (G2a)  • Nurse practitioner and/or physician assistant (G3)	2
Neurology & Neurosurgery* (16 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Radiologist specializing in pediatric interventional radiology (A4d)</li> <li>Pediatric infectious disease specialist (A4f)</li> <li>Radiologist specializing in pediatric neuroradiology (A4g)</li> </ul>	6
Having at least one of each of the following pediatric surgeons:  Pediatric general surgeon (A5c)  Pediatric neurosurgeon (A5d)  Pediatric vascular surgeon (A5j)  Parenthetical references indicate related survey questions	(continued)

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 6. Subspecialists by Specialty (continued)** 

Neurology & Neurosurgery* (16 points) (continued)	Points
<ul> <li>Having at least 1.0 FTE of the following other medical staff:</li> <li>Pediatric neurologist (H2a)</li> <li>Pediatric neurosurgeon (H2b)</li> <li>Pediatric epilepsy neurologist (H2c)</li> <li>Pediatric stroke neurologist (H2d)</li> <li>Nurse practitioner and/or physician assistant (H3)</li> </ul>	5
Having at least 1.0 FTE of nurses with advanced neurologic certification (H4)	1
Having at least 1.0 FTE dietician dedicated to Ketogenic Diet planning and implementation with patients (H5.1)	1
Orthopedics* (21 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Pediatric radiologist specializing in interventional radiology (A4d)</li> <li>Pediatric rheumatologist (A4e)</li> <li>Pediatric infectious disease specialist (A4f)</li> </ul>	6
<ul> <li>Having at least one of each of the following pediatric surgeons:</li> <li>Pediatric general surgeon (A5c)</li> <li>Pediatric orthopedic surgeon (A5f)</li> <li>Pediatric plastic surgeon (A5h)</li> <li>Pediatric hand surgeon (A5i)</li> <li>Pediatric vascular surgeon (A5j)</li> <li>Pediatric orthopedic surgery resident (I6.1b)</li> </ul>	6
Having at least one of each of the following specialists:  Hand surgery (I6a)  Spinal surgery (I6b)  Musculoskeletal oncologist (I6c)  Orthopedic sports surgeons (I6d)  Hip preservation specialist (I6e)  Musculoskeletal radiologist (I6f)	6
Having at least 1.0 FTE of the following other medical staff:  Pediatric orthopedic surgeon (I2a)  Nurse practitioner and/or physician assistant (I3)  Dedicated clinical registered nurses or medical assistants (I4)	3

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 6. Subspecialists by Specialty (continued)** 

Pulmonology & Lung Surgery* (11 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Radiologist specializing in pediatric interventional radiology (A4d)</li> <li>Pediatric infectious disease specialist (A4f)</li> </ul>	5
<ul> <li>Having at least one of each of the following pediatric surgeons:</li> <li>Pediatric general surgeon (A5c)</li> <li>Pediatric vascular surgeon (A5j)</li> </ul>	2
Having at least 1.0 FTE of the following other medical staff:  Pediatric pulmonologist (J2a)  Pediatric sleep medicine physician (J2b)  Nurse practitioner and/or physician assistant (J3)  Clinical registered nurse (J4)	4
Urology* (14 points)	Points
<ul> <li>Having at least one of each of the following physician specialists:</li> <li>Pediatric anesthesiologist (A4a)</li> <li>Pediatric critical care specialist (A4b)</li> <li>Pediatric radiologist specializing in diagnostic radiology (A4c)</li> <li>Pediatric radiologist specializing in interventional radiology (A4d)</li> <li>Pediatric infectious disease specialist (A4f)</li> </ul>	5
<ul> <li>Having at least one of each of the following pediatric surgeons:</li> <li>Pediatric general surgeon (A5c)</li> <li>Pediatric urology surgeon (A5g)</li> <li>Pediatric plastic surgeon (A5h)</li> <li>PAG surgeon (A5m)</li> </ul>	4
<ul> <li>Having at least 1.0 FTE of the following other medical staff:</li> <li>Pediatric urologist (K2a)</li> <li>Other attending pediatric urologists who are not certified/eligible for the CAQ in pediatric urology from the ABU (K2b)</li> <li>Nurse practitioner and/or physician assistant (K3)</li> <li>Clinical registered nurse (K4)</li> </ul>	4
Having an in-house ultrasound technologist to support prompt imaging and diagnosis of suspected testicular torsion and suspected kidney stones (K20)	1
Behavioral Health* (15 points)	Points
<ul> <li>Having at least one 1.0 FTE of the following physician specialists:</li> <li>Child and adolescent psychiatrists (L2a)</li> <li>Pediatric or child and adolescent clinical psychologists or neuropsychologists (L2b)</li> <li>Developmental behavioral pediatricians or neurodevelopmental disabilities physician (L2c)</li> <li>Adolescent medicine physicians (L2d)</li> </ul> * Parenthetical references indicate related survey questions	4

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 6. Subspecialists by Specialty (continued)** 

Behavioral Health* (15 points) (continued)	Points
<ul> <li>Having at least 1.0 FTE of the following other medical staff:</li> <li>Nurse practitioner or physician assistant (L3a/L3b)</li> <li>Clinical registered nurse (J3c)</li> </ul>	2
<ul> <li>Having at least 1.0 FTE of the following nurse practitioners and clinical nurses (RNs) with the following certifications:</li> <li>Nurse practitioner with the Psychiatric-Mental Health Nurse Practitioner (PMHNP-BC) certification or board-certified Psychiatric and Mental Health Clinical Nurse Specialists (PMHCNS) (L4a)</li> <li>Clinical nurses (RN) with the Child/Adolescent Psychiatric-Mental Health Clinical Nurse Specialist certification (PMHCNS-BC), the Pediatric Primary Care Mental Health Specialist (PMHS) certification, Psychiatric-Mental Health-Board Certified (PMH-BC) certification, Certified Pediatric Nurses (CPN) certification, or other equivalent nursing certifications focused on behavioral healthcare (L4b)</li> </ul>	2
<ul> <li>Having at least 1.0 FTE of the following master's degree level staff who are licensed to practice independently:</li> <li>Licensed marriage, family, and child counselors (MFCC), Licensed Professional Counselors (LPC), Licensed Clinical Professional Counselors (LCPC), or Licensed Mental Health Counselor (LMHC) (L5a)</li> <li>Licensed Clinical Social Workers (LCSW), Licensed Independent Social Workers (LISW), Licensed Master's Social Workers (LMSW), or other licensed social workers (L5b)</li> <li>Perinatal mental health certified counselors (PMH) (L5c)</li> <li>Board-certified behavior analysts (BCBA) (L5d)</li> <li>Other master's degree level counselors not covered above with state licensing (L5e)</li> </ul>	5
Having at least one of each of the following pediatric subspecialists:  Child abuse pediatrics (L7a) Child neurology (L7b)	2

<sup>\*</sup> Parenthetical references indicate related survey questions.

# **Heart Transplant Program (Cardiology & Heart Surgery)**

In Cardiology & Heart Surgery, hospitals received up to 13 points for having a heart transplant program. Hospitals received 1 point for having an onsite heart or heart-lung transplant program recognized by the United Network for Organ Sharing (UNOS) (E21). Hospitals received up to 3 points based on the number of unique patients who received heart transplants in the past 4 years combined (E22): 1 point for 1-7 transplants, 2 points for 8-15 transplants, and 3 points for 16 or more transplants. Three additional points were awarded based on the number of patients < 1 year of age who received heart transplants in the past 4 years (E22.1): 1 point for 1-4 patients, 2 points for 5-9 patients, and 3 points for 10 or more patients. Hospitals also received 1 point for having performed cardiac transplantation in a recipient with high (≥ 10%) panel reactive antibody (PRA) (E25a), 1 point for having a written protocol for the management of recipients with high (≥ 10%)

PRA (E25b), 1 point for having performed an ABO-incompatible heart transplant (E25c), and 1 point for having a written protocol for the management of ABO-incompatible recipients (E25d). Hospitals received up to 2 points for performing combined en block heart and lung or heart and liver transplants on patients with pediatric and/or congenital heart disease who survived hospital discharge between July 2022 and June 2023. This includes transplants conducted onsite at the primary hospital or offsite at a single affiliated adult cardiac hospital (E25e-f).

#### **Help for Families (All Specialties)**

The Patient and Family Services measure evaluates access to medical specialists and services. A core set of submeasures for all specialties is worth up to 8 points, which includes providing direct access to certified child life specialists (A12a), family-support specialists (A12b), pediatric behavioral health support (psychologists, psychiatrists, licensed clinical social workers, other licensed counselors, etc.) (A12c), a family resource center (A13a), sleep rooms for family members or guardians (A13b), a school intervention program (A13c), and a Ronald McDonald House (or other residential facility) (A13d). Hospitals could also receive 1 additional point for having direct access to interpreter services either through having access to in-person interpreters, interpreters through electronic means, or both (A12.1).

In Neonatology, hospitals could receive up to 7 additional points (for a total of 15 points). Hospitals received points for offering the following patient and family services: NICU-specific family psychosocial support program (F8a), sibling visitation allowed (F8b), NICU-specific parent-to-parent support groups (F8c), dedicated psychologists or psychiatrists available for referrals and consultations with parents (F8d), Child Life support team available to NICU families (F8e), NICU-dedicated multidisciplinary developmental care team (F8f), and complex discharge coordinator (F8g).

In Nephrology, hospitals could receive up to 7 additional points (for a total of 15 points). Hospitals received 1 point for offering summer camp for kidney transplant patients (G33b). Hospitals received 1 point for participating in a paired kidney donation program (G43). Hospitals received up to an additional 5 points for offering the following programs to support patients in a pediatric maintenance dialysis program: teachers dedicated to working with patients (G9a), a standard review of school performance and patient's Individualized Education Program (G9b), summer camp (G9c), quality of life assessment (G9d), and Child Life specialists (G9e).

In Behavioral Health, hospitals could receive up to 7 additional points (for a total of 15 points). Hospitals received 1 point for each of the following patient and family services: online

§§ For in-person interpreter services having at least 50% certified through the National Board of Certification for Medical Interpreters or the Certification Commission for Healthcare Interpreters.

information resources with information about diagnoses, treatments, and medication options (L12a); parenting webinars or educational sessions (L12b); disorder-specific conditions webinars or educational sessions (L12c); support groups for patients (L12d); support groups for parents or caregivers (L12d); family-centered rounds for inpatient care (L12f); and family navigators (L12g).

#### Liver Transplant Program (Gastroenterology & GI Surgery)

In Gastroenterology & GI Surgery, hospitals received up to 4 points for having a liver transplant program. Hospitals received 1 point for having a UNOS-recognized liver transplant program (D20) and up to 3 points based on the number of unique patients who received a liver transplant in the past 5 years (D21a and D22a): 1 point for 1-9 patients, 2 points for 10-19 patients, or 3 points for 20 or more patients.

#### Lung Transplant Program (Pulmonology & Lung Surgery)

In Pulmonology & Lung Surgery, hospitals received up to 5 points for having a lung transplant program. Hospitals received 1 point for offering a UNOS-recognized lung transplant program (J46). Hospitals received 1 point for performing one lung transplant between January 2018 and June 2020 or 2 points for performing two or more lung transplants between January 2018 and June 2020 (J48a). Hospitals received 1 point for performing one lung transplant between July 2020 and December 2023 or 2 points for performing two or more lung transplants between July 2020 and December 2022 (J47a).

# **Neonatal Transport (Neonatology)**

In Neonatology, hospitals received up to 13 points for ensuring the safety of newborns during transport. Hospitals received up to 6 points for providing a neonatal-specific transport team with each of the following:

- A medical director board-certified in Neonatal-Perinatal Medicine and has at least 1 year of NICU level III or IV experience (F13a)
- At least one member with at least 1 year of NICU Level III or IV experience on every Neonatal transport (F13b)
- Neonatal transport team is immediately available 24/7 to respond to emergent neonatal transports (F13c)
- Active servo-controlled cooling on transport for term and near-term infants with hypoxic ischemic encephalopathy (F13d)
- Air transport (helicopter or fixed-wing airplane) (F13e)
- High-frequency ventilation through an endotracheal tube (F13f)

Hospitals received 1 point for tracking temperature at admission for infants cooled during transport by the transport team for the management of hypoxic ischemic encephalopathy (F13.1). Hospitals received an additional 1 point if data on cooling were systematically collected and reported to a benchmarking registry (e.g., Children's Hospital's Neonatal Consortium (CHNC)) or for internal process improvement work (F13.3).

Hospitals received 1 point if the NICU has the capability of providing inhaled nitric oxide therapy during transport with high-risk pre-ECMO patients whenever indicated (F13.4).

Hospitals received 1 point for tracking time to vehicular dispatch for neonatal transport (F13.5). Hospitals received 2 additional points for having  $\geq 80\%$  of neonatal transports dispatched within 30 minutes of the call being logged as received or 1 point for having  $\geq 40$  and < 80% dispatched within 30 minutes (F13.6). Hospitals received an additional 1 point if data on emergent neonatal transport were systematically collected and reported to a benchmarking registry (e.g., CHNC) or for internal process improvement work (F13.7).

#### **Nurse Staffing (All Specialties)**

This measure is a relative ratio of the number of nurses to the average daily patient census. The numerator is the number of on-staff registered nurses (RNs), including contract nurses, hospital-wide who are dedicated to inpatient pediatric clinical care, expressed as FTEs (A2).\*\*\* The denominator is the average daily number of pediatric inpatients in 2023 (A1).††† The source was the Pediatric Hospital Survey. In Neonatology, the numerator included only direct clinical care RNs in the NICU (F4), and the denominator was the average daily census of NICU patients (F6). For scoring purposes, nurse-patient values were capped at 4.0 in all specialties to prevent skewness.

# Percentage of Dialysis Patients Who Had Transplants (Nephrology)

Hospitals received up to 6 points in Nephrology based on the percentage of end-stage renal disease (ESRD) patients with a completed CMS-2728 (Medical Evidence) form receiving hemodialysis or peritoneal dialysis who were over 10 kg (G20.1) who received kidney transplants within the past 2 years (G21). Patients were evaluated separately by age group: children under 5 and children aged  $\geq 5$  and < 18. For each age group, hospitals received up to 3 points for having a higher percentage of patients receiving transplants as follows: 1 point if  $\geq$  20% and < 40%, 2 points if  $\geq$  40% and < 60%, or 3 points if  $\geq$  60%.

<sup>\*\*\*</sup> Hospitals are directed to calculate FTEs based on total paid hours for the period of review divided by 2,080.

\*\*\* This includes inpatient days divided by the number of days that the hospital was open (e.g., 365); hospitals are directed to include all patients admitted to the hospital, including short stays and observation stays.

#### **Provides Advanced Palliative Care Program (Cancer)**

In Cancer, hospitals received up to 8 points for palliative care. Hospitals could receive up to 4 points for offering the following pain control programs: patient-controlled analgesia (B29a), nurse-controlled analgesia (B29b), pediatric pain service consults (B29c), and pediatric outpatient pain management services (B29d).

Hospitals received 1 point for offering a qualified palliative care program onsite (B29.1). A qualified program is defined as one that is organized and staffed for children nearing the end of life or living with conditions that limit lifespan or quality of life. It is intended to minimize pain and discomfort, provide emotional and spiritual support for children and their families, assist with financial guidance and social services, and support decision-making. The program must include at least one physician providing direct patient care and a nurse coordinator and either a social worker, certified child life specialist ,or pastoral counselor, and all staff must have training in palliative care.

Hospitals received 1 point for having at least one physician board-certified, or board eligible, in Hospice and Palliative Medicine (B29.2).

Hospitals could receive up to 2 points based on the percentage of patients with advanced and refractory cancer who were referred to the palliative care program (B30): 1 point for  $\geq$  50% or < 75% or 2 points for  $\geq$  75%.

# Recognized as Nurse Magnet Hospital (All Specialties)

The Nurse Magnet status measure is a formal designation by the Magnet Recognition Program®. The program was developed by the American Nurses Credentialing Center (ANCC) to recognize healthcare organizations that meet certain quality indicators on specific standards of nursing excellence. The list of Magnet-recognized facilities is updated throughout the year as organizations apply for designation and redesignation status. Hospitals received credit based on their Magnet Recognition status as of December 2023. The current list of Magnet-recognized organizations is shown at <a href="https://www.nursingworld.org/organizational-programs/magnet/find-a-magnet-organization/">https://www.nursingworld.org/organizational-programs/magnet/find-a-magnet-organization/</a>.

Hospitals received 1 point for being recognized as a Nurse Magnet hospital. For children's hospitals that are part of a special merger<sup>‡‡‡</sup> 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

45

<sup>##</sup> In a special merger, two separate hospitals operate as one and their data are combined for analysis. Boston Children's Hospital and Dana-Farber Cancer Center are an example in pediatric Cancer. Specialty or secondary hospitals that are combined with the primary hospital are noted on the US News website for that hospital.

is no defined primary hospital, then if either hospital in the special merger has Magnet Recognition status both receive credit.

# Specialized Clinics and Programs (Cancer, Diabetes & Endocrinology, Gastroenterology & GI Surgery, Neonatology, Neurology & Neurosurgery, Orthopedics, Urology, Behavioral Health)

Cancer (5 points). Hospitals received 1 point for each of the following specialized treatment programs: clinical brain tumor program (B10a), solid tumor program that includes limb-sparing surgery for bone tumors (B10b), clinical leukemia/lymphoma program (B10c), comprehensive longer term survivors program (B10d), and histocytosis program (B10e).

Diabetes & Endocrinology (26 points). Hospitals received up to 2 points for specialized treatment programs for endocrine patients. Hospitals received 1 point for having the following onsite programs and an additional point for each program if pediatric endocrinologists regularly attended the program: lipid disorders (C46a), hypertension (C46b), comprehensive weight management (C46c), Turner syndrome (C46d), cystic fibrosis—related diabetes (C46e), gender dysphoria (C46f), disorders of sexual development (C46g), thyroid nodules (C46h), 22q11.2 Deletion Syndrome (C46i), Muscular Dystrophy (C46j), Prader-Willi Syndrome (C46k), Pediatric Hematology or Oncology (C46l), or Metabolic Bone Disease (C46m).

Gastroenterology & GI Surgery (13 points). Hospitals received 1 point for each of the following interdisciplinary treatment programs for gastrointestinal disorders with at least 10 patients in the last calendar year: intestinal rehabilitation or outpatient Total Parenteral Nutrition (TPN) support (D10a), cystic fibrosis treatment (D10b), aerodigestive (D10i), pancreatic disease (D10j), and anorectal or colorectal program (D10k). Hospitals received 1 point for each of the following interdisciplinary treatment programs for gastrointestinal disorders with at least 20 patients in the last calendar year: pediatric intensive feeding (D10c), multidisciplinary childhood obesity management (D10d), inflammatory bowel disease (D10e), multidisciplinary allergic gastrointestinal disease (D10f), chronic liver disease (D10g), neurogastrointestinal (D10h), celiac disease (D10l), and functional abdominal pain (D10m).

**Neonatology** (18 points). Hospitals received up to 18 additional points for providing specialized treatment teams or clinics to deal with particularly challenging conditions. Hospitals received 1 point for each of the following: craniofacial team (F14a), spina bifida team (F14b), comprehensive retinopathy of prematurity program (F14c), neonatal-neurointensive care program (F14e), palliative care program (F14f), micrognathia team (F14g), chronic lung disease team (F14h), congenital diaphragmatic hernia team (F14i), chronic pulmonary hypertension team (F14j), neonatal dialysis team (F14k), multidisciplinary team for follow-up with congenital diaphragmatic hernia

patients after discharge (F14l), intestinal rehabilitation team regularly rounds with clinical team (F14m), neonatal point of care ultrasound program (F14n), metabolic team (F15a), bowel rehabilitation team (F15b), home ventilator management team (F15c), neurodevelopmental follow-up clinic for premature/high-risk NICU patients (F15d), and neurodevelopmental clinic for high-risk congenital heart neonatal patients (F15e).

Neurology & Neurosurgery (19 points). Hospitals received up to 19 points for access to specialized treatment clinics or programs for pediatric neurological disorders. To receive credit, a hospital had to have an organized program (i.e., physicians in the program regularly attend and participate in the care of these special patient populations). One point was awarded for each of the following multidisciplinary program: cerebral palsy/spasticity (H12a), cerebrovascular/stroke multidisciplinary (H12b), craniofacial surgical (H12c), surgical movement disorders (H12d), neurofibromatosis (H12e), neuromuscular (H12f), neuro-oncology (H12g), spina bifida (H12h), tuberous sclerosis (H12i), brachial plexus (H12j), genetic metabolic (H12k), neonatal neurology (H12l), head trauma/post-concussion (H12m), new-onset seizures (H12n), diagnostic neuro-fetal (H12o), headache (H12p), pain (H12q), demyelinating disorders (H12r), and autism/neurodevelopmental disorders (H12s).

Orthopedics (11 points). Hospitals received up to 11 points for providing specialized treatment clinics or programs to treat significant conditions. To receive credit, the clinic had to be attended regularly by the pediatric orthopedic service and see a minimum of 25 patients in the last calendar year. Hospitals received 1 point for each of the following clinics or programs: spina bifida (I15a), spasticity (I15b), skeletal dysplasia (I15c), brachial plexus (I15d), neurofibromatosis (I15e), muscle disease (I15f), sports concussion program (I15g), arthrogryposis (I15h), limb deficiency/limb reconstruction/prosthetics (I15i), skeletal health/metabolic bone health (I15j), and vascular malformation clinic (I15k).

Urology (11 points). Hospitals received 1 point for each of the following specialized treatment clinics or programs to treat significant urological conditions or issues: spina bifida (K10a), comprehensive stone program (K10b), prenatal program (K10c), and differences in sex development program (K10d). Hospitals also received up to 3 points for offering a Transitional Care Program and assisting patients with congenital conditions affecting the genitourinary (GU) system to transition to adult urology in the last calendar year: 1 point for assisting 1-9 patients or 2 points for assisting 10 or more patients (K10.1). Hospitals received up to 3 additional points for providing care to patients as an integrated member of the pediatric oncology treatment program in the last calendar year: 1 point for providing care to 1-9 patients or 2 points for providing care to 10 or more patients (K10.3). Hospitals received an additional 1 point for providing a voiding dysfunction program that treated at least 120 patients in the last calendar year (K17).

**Behavioral Health (81 points).** Hospitals could receive up to 81 points for providing specialized behavioral healthcare. Hospitals received 2 points for providing diagnostic assessments either via inpatient or outpatient care or could receive 1 point for providing diagnostic assessments via a community partner for the following (for a total of 38 points):

- Attention-deficit/hyperactivity disorder (ADHD) (L13a);
- Autism spectrum disorders (L13b);
- Global developmental delays and intellectual disabilities (L13c);
- Language and learning disorders (L13d);
- Motor disorders (L13e);
- Disruptive, impulse-control, and conduct disorders (L13f);
- Schizophrenia spectrum and other psychotic disorders (L13g);
- Bipolar and related disorders (L13h);
- Depressive disorders (L13i);
- Anxiety disorders (L13j);
- Trauma- and stressor-related disorders (L13k);
- Substance-related and addictive disorders (L131);
- Gender dysphoria (L13m);
- Feeding or eating disorders (L13n);
- Elimination disorders (L130);
- Sleep-wake disorders (L13p);
- Somatic symptom and related disorders (L13q);
- Neurocognitive disorders (L13r); and
- Other behavioral health conditions (L13s).

Hospitals could receive 1 point each for conducting the following diagnostic assessments (for a total of 5 points): psychological testing (L14a), neuropsychological testing (L14b); psychoeducational testing/assessment (L14c), autism diagnostic assessments (L14d), and developmental testing (L14e).

Hospitals received 2 points for providing treatment either via inpatient or outpatient care or could receive 1 point for providing treatment via a community partner for the following (for a total of 38 points):

- ADHD (L17a);
- Autism spectrum disorders (L17b);
- Global developmental delays and intellectual disabilities (L17c);
- Language and learning disorders (L17d);
- Motor disorders (L17e);
- Disruptive, impulse-control, and conduct disorders (L17f);
- Schizophrenia spectrum and other psychotic disorders (L17g);
- Bipolar and related disorders (L17h);
- Depressive disorders (L17i);
- Anxiety disorders (L17j);
- Trauma- and stressor-related disorders (L17k);
- Substance-related and addictive disorders (L171);
- Gender dysphoria (L17m);
- Feeding or eating disorders (L17n);
- Elimination disorders (L170);
- Sleep-wake disorders (L17p);
- Somatic symptom and related disorders (L17q);
- Neurocognitive disorders (L17r); and
- Other behavioral health conditions (L17s).

# Success in Helping Patients Manage Their Asthma (Pulmonology & Lung Surgery)

In Pulmonology & Lung Surgery, hospitals received up to 15 points for management of asthma patients. Hospitals received up to 6 points for their treatment of severe asthma patients: hospitals received 1 point for having a program with dedicated staff (at least 0.5 FTE) to identify and treat patients with severe, high-risk, difficult-to-control, or life-threatening asthma (J7), 1 point

for having a written protocol for evaluation of patients with severe asthma (J8), 1 point for monitoring medication adherence in severe asthma patients (J8.1), and 1 point for having access to at least 1.0 FTE of Certified Asthma Educators in the last calendar year (J8.2). Hospitals received 1 point for having a multidisciplinary Severe Asthma Clinic and an additional 1 point if this clinic prescribes and administers injectable biologic therapies.

Hospitals received up to 9 additional points based on the percentage of patients with a primary diagnosis of asthma following three specific protocols. The protocols evaluated were as follows: providing eligible outpatients in subspecialty care clinics with a documented assessment of asthma control (e.g., ACT, ATAQ) (J10e/J10d), completing an outpatient follow-up visit within 90 days of discharge (J10c/J10b), and successfully managing outpatients so that they were not admitted for care related to their asthma (J10b/J10a<sup>§§§</sup>). For the first two protocols, up to 3 points were awarded for the percentage of patients following the protocol: 1 point for  $\geq$  50% and < 75%, 2 points for  $\geq$  75% and < 90%, or 3 points for  $\geq$  90%. For the last protocol, points were awarded for a *lower* percentage of patients being admitted for care related to their asthma: 3 points for  $\leq$  10% of patients admitted, 2 points for  $\geq$ 10% and  $\leq$  25%, or 1 point for  $\geq$ 25% and  $\leq$ 50%.

# Success in Managing Neuromuscular Weakness Disorder (Pulmonology & Lung Surgery)

In Pulmonology & Lung Surgery, hospitals received up to 3 points for the percentage of muscular dystrophy patients who had pulmonary function testing in the past calendar year (J31). Points were based on the percentage of patients as follows: 1 point for  $\geq$  50% and < 75%, 2 points for  $\geq$  75% or < 90%, and 3 points for  $\geq$  90%.

# **Tracking Growth Metrics for Treated Patients (Neonatology)**

Hospitals received up to 7 points in Neonatology for recording growth metrics on infants within 7 days prior to discharge or transfer, including weight (F40a), length (F40b), and head circumference (F40c). For each of the three growth metrics, points were awarded as follows: 1 point for recording metrics on  $\geq 60\%$  and < 90% of infants; or 2 points for recording metrics on  $\geq 90\%$  of infants. Hospitals received an additional 1 point for measuring infant length using a length board (F41).

# **Volume of Patients (All Specialties)**

Unless noted otherwise, volume measures indicate the number of unique patients in the past calendar year who had the specified diagnoses or conditions or who received the specified

<sup>\{\}\\$</sup> This survey item was reverse scored to reward hospitals for having fever outpatients admitted for asthma-related care.

procedures or treatments. If data were unavailable for the most recent calendar year, hospitals were instructed to use data from the most recent 12 months data were available.

Low-, medium-, and high-volume categories were created for most measures, based on the distribution of volume across all hospitals. For other measures, categories were based on conceptual thresholds for the number of patients or procedures needed to indicate a sufficient level of experience. We assigned points based on categories rather than on continuous values to ensure that one or two hospitals with extremely high volumes did not skew scoring. Hospitals that had zero volume or that did not respond received 0 points. For almost all measures, hospitals in the lowest volume category received 1 point, medium-volume hospitals received 2 points, and high-volume hospitals received 3 points. An exception is two of the items in the Number of Patients in Orthopedics, which received 2, 4, or 6 points respectively for low, medium, or high volume. The increased points reflect these items' increased importance relative to other items in the measure.

In addition, for items with extremely low volume, such as GI and urological surgical procedures, the measure was divided only into low and medium volumes, with a maximum of 2 points. *Table 7* identifies the volume measures used by specialty and the points assigned to volume scores within a certain range.

**Table 7. Volume Measures by Specialty** 

Cancer (49 points) Volume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
Number of new patients, 2 years (B6) (max points = 3)	1-99	100-399	400+
Number of patients (max points = 30)			
Leukemia (B27a1)	1-149	150-299	300+
Brain tumors/Central Nervous System (B27b1)	1-99	100-199	200+
Neuroblastoma (B27c1)	1-24	25-49	50+
Bone tumors (B27d1)	1-19	20-39	40+
Number of patients (max points = 30)			
Soft tissue sarcomas (B27e1)	1-19	20-39	40+
Wilms tumor (B27f1)	1-14	15-29	30+
Liver tumors (B27g1)	1-5	6-11	12+
Retinoblastoma (B27h1)	1-5	6-11	12+
Extracranial germ cell tumors (B27i1)	1-7	8-15	16+
Lymphoma (B27j1)	1-29	30-59	60+
Number of surgeries** (B27), (max points = 16)			
Brain tumors (B27b2)	1-29	30+	NA
Neuroblastoma (B27c2)	1-4	5+	NA
Bone tumors (B27d2)	1-9	10+	NA
Soft tissue sarcomas (B27e2)	1-9	10+	NA
Wilms tumor (B27f2)	1-4	5+	NA
Liver tumors (B27g2)	1-3	4+	NA
Retinoblastoma (B27h2)	1-2	3+	NA
Extracranial germ cell tumors (B27i2)	1-3	4+	NA

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 7. Volume Measures by Specialty (continued)** 

Cardiology & Heart Surgery (48 points) Volume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
<b>Number of catheter procedures**</b> (max points = 18)			
<ul> <li>Diagnostic catheterization only (hemodynamic and/or angiographic evaluation) (E11b, E12b)</li> </ul>	1-99	100-199	200+
Electrophysiology procedures (E11d, E12d)	1-4	5-9	10+
<ul> <li>Interventional procedure (with or without a diagnostic procedure or biopsy) (E11e, E12e)</li> </ul>	1-199	200-399	400+
<ul> <li>Transcatheter pulmonary valve replacements (E11f, E12f)</li> </ul>	1-4	5-9	10+
<ul> <li>Procedures for implantation, removal, extraction, repair or replacement of a permanent transvenous device used for pacing (E15)</li> </ul>	1-19	20-39	40+
<ul> <li>Catheter ablations (cryoablation and radiofrequency) (E14.1)</li> </ul>	1-39	40-79	80+
Number of Norwood or hybrid surgeries (max points =	: 12)		
<ul> <li>Patients with hypoplastic left heart syndrome (HLHS) receiving hybrid (Stage 1) as a planned bridge to transplant, hybrid (Stage 1) NOT as a planned bridge to transplant, or Norwood (Stage 1), year 1 (E40b)</li> </ul>	1-6	7-13	14+
<ul> <li>Patients with HLHS receiving hybrid (Stage 1) as a planned bridge to transplant, hybrid (Stage 1) NOT as a planned bridge to transplant, or Norwood (Stage 1), yea 2 (E40c)</li> </ul>		7-13	14+
<ul> <li>Patients with HLHS receiving hybrid (Stage 1) as a planned bridge to transplant, hybrid (Stage 1) NOT as a planned bridge to transplant, or Norwood (Stage 1), yea 3 (E40d)</li> </ul>		7-13	14+
<ul> <li>Patients with HLHS receiving hybrid (Stage 1) as a planned bridge to transplant, hybrid (Stage 1) NOT as a planned bridge to transplant, or Norwood (Stage 1), yea 4 (E40e)</li> </ul>		7-13	14+
Number of surgeries *** (max points = 18)			
• STAT**** Level 2: Years 1-4 (E42)	1-299	300-599	600+
• STAT Level 3: Years 1-4 (E42)	1-149	150-299	300+
• STAT Level 4: Years 1-4 (E42)	1-149	150-299	300+
STAT Level 5: Years 1-4 (E42)	1-59	60-119	120+
<ul> <li>Neonates and infants born at 28 to &lt; 34 weeks gestation with congenital heart disease (STAT levels 3-5) (E37.5)</li> </ul>	1-3	4-7	8+
<ul> <li>Neonates and infants born at 34 to &lt; 37 weeks gestation with congenital heart disease (STAT levels 3-5) (E37.6)</li> </ul>	1-3	4-7	8+

<sup>\*</sup> Parenthetical references indicate related survey questions.

<sup>\*\*</sup> Volume represents procedures, not patients. For the first five metrics (E11a-f, E12a-f), volumes from the National Cardiovascular Data Registry (NCDR)report are used if available for all quarters in the most recent year.

<sup>\*\*\*</sup> Volume represents procedures, not patients.

<sup>\*\*\*\*</sup> Society of Thoracic Surgery & European Association for Cardio-Thoracic Surgery Congenital Heart Surgery Mortality Categories (STAT)

**Table 7. Volume Measures by Specialty (continued)** 

Diabetes & Endocrinology (48 points) Volume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
<b>Number of patients</b> (max points = 34)			
<ul> <li>Type 1 diabetes outpatient visits (in-person and virtual telehealth visits) (C28.1a)</li> </ul>	1-499	500+	NA
<ul> <li>Type 2 diabetes outpatient visits (in-person and virtual telehealth visits) (C28.1b)</li> </ul>	1-249	250+	NA
<ul> <li>Diabetes-related care admissions for Type 1 patients (C28.1c)</li> </ul>	1+	NA	NA
<ul> <li>Diabetes-related care admissions for Type 2 patients (C28.1d)</li> </ul>	1+	NA	NA
<ul> <li>Patients with a genetically confirmed form of genetic diabetes Maturity Onset Diabetes in the Young (MODY) or NDM (C28.2)</li> </ul>	1-9	10+	NA
Congenital adrenal hyperplasia (C47a)	1-39	40+	NA
CNS and endocrine tumors (C47b)	1-99	100+	NA
Diabetes insipidus (C47c)	1-24	25+	NA
Hypopituitarism (C47d)	1-99	100+	NA
Turner Syndrome (C47e)	1-24	25+	NA
Noonan Syndrome (C47f)	1-24	25+	NA
Gender dysphoria (C47g)	1-24	25+	NA
Disorders of sexual development (C47h)	1-24	25+	NA
Bone disease (including metabolic and genetic conditions) (C47i)	1-24	25+	NA
Non-diabetes related hypoglycemia (C47j)	1-99	100+	NA
Polycystic ovarian syndrome (C47k)	1-79	80+	NA
Nondiabetes endocrine disorders outpatients (C57a1)	1-1,999	2,000+	NA
<ul> <li>Nondiabetes endocrine disorders inpatients (C57b1)</li> </ul>	1-124	125+	NA
Number of patients undergoing procedures** (max po	oints = 14)		
<ul> <li>Ratio of patients with growth hormone deficiency who received a brain or pituitary MRI (2 years) (excluding patients with brain tumors) (C49a/C48)</li> </ul>	50%- 74.9%	75%+	NA
<ul> <li>Ratio of patients with growth hormone deficiency who received a prescribed growth hormone therapy (excluding patients with brain tumors) (C49b/C48)</li> </ul>	50%- 74.9%	75%+	NA
<ul> <li>Ratio of patients with growth hormone deficiency who received a serum IGF-1 measurement (excluding patients with brain tumors) (C49c/C48)</li> </ul>	50%- 74.9%	75%+	NA
Thyroidectomy (C51.1a)	1-3	4+	NA
Parathyroid surgery (C51.1b)	1	2+	NA
Brain tumor surgery involving hypothalamus or pituitary (C51.1c)	1-3	4+	NA
Abdominal endocrine surgery (C51.1d)	1	2+	NA

<sup>\*</sup> Parenthetical references indicate related survey questions. (continued)

\*\* Volume represents procedures, not patients. For the first five metrics (E11a-f, E12a-f), volumes from NCDR report are used if available for all quarters in the most recent year.

**Table 7. Volume Measures by Specialty (continued)** 

	nstroenterology & GI Surgery (63 points) Dlume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
Νι	<pre>umber of noninvasive procedures** (max points = 23)</pre>			
•	Capsule endoscopy (D11a)	1-19	20+	NA
•	Endoscopic band ligation/sclerotherapy (D11b)	1-4	5+	NA
•	Esophageal impedance or high-resolution esophageal manometry (D11c)	1-49	50+	NA
•	Endoscopic retrograde cholangiopancreatography (D11d)	1-14	15+	NA
•	Antroduodenal and full colonic motility studies (D11e)	1-3	4+	NA
•	Esophageal dilation (D11f)	1-29	30+	NA
•	Alternative hemostasis therapies (D11g)	1-8	9+	NA
•	Deep enteroscopy-single or double balloon (D11h)	1-3	4+	NA
•	Endoscopic ultrasound (D11i)	1-3	4+	NA
•	Sedation-free transnasal endoscopy (D11j)	1-3	4+	NA
•	Endoscopic suturing, intragastric balloon, or AspireAssist device (D39a)	1+	NA	NA
•	Pharmacotherapy (D39b)	1-49	50+	NA
Νι	imber of patients (max points = 27)	•	•	
•	Pseudo-obstruction (D13a)	1-12	13-24	25+
•	Chronic intestinal failure patients who require TPN for 2 months or more (D13b)	1-39	40-79	80+
•	Chronic liver disease (D13c)	1-99	100-199	200+
•	Acute recurring or chronic pancreatitis (D13d)	1-49	50-99	100+
•	Biliary atresia (D13e)	1-14	15-29	30+
•	Portal hypertension (D13f)	1-19	20-39	40+
•	Celiac disease (D13g)	1-99	100-199	200+
•	Eosinophilic esophagitis (D13h)	1-99	100-199	200+
•	Congenital anorectal or colorectal disorders (such as Hirschsprung disease, Imperforate anus, and Cloaca) (D13i)	1-49	50-99	100+
Νι	umber of patients undergoing surgeries (max points =	12)	T	
•	Surgical intervention to improve biliary drainage in a patient with biliary atresia or a choledochal cyst (D17a)	1	2+	NA
•	Laparoscopic gastrointestinal, hepatic, and pancreatic surgery (D17b)	1-24	25+	NA
•	Bariatric surgery (D17c)	1-4	5+	NA
•	Anorectoplasties (D17d)	1-9	10+	NA
•	Open and minimally invasive abdominal surgeries for inflammatory bowel disease (IBD) (D17e and D17f)	1-4	5+	NA
•	Congenital esophageal atresia with or without tracheoesophageal fistula and congenital esophageal stenosis or stricture repair (D17g)	1-7	8+	NA
	pronthotical references indicate related survey questions	·	L	(continued)

<sup>\*</sup> Parenthetical references indicate related survey questions. (continued)

\*\* Volume represents procedures, not patients. For the first five metrics (E11a-f, E12a-f),

**Table 7. Volume Measures by Specialty (continued)** 

Neonatology (36 points) Volume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
Number of patients (max points = 36)			
Congenital diaphragmatic hernia (F16a)	1-14	15-29	30+
Hirschsprung's disease (F16b)	1-11	12-23	24+
<ul> <li>Therapeutic hypothermia treatment for hypoxic ischemic encephalopathy (F16c)</li> </ul>	1-49	50-99	100+
Open neural tube defect treatment (F16d)	1-14	15-29	30+
Gastroschisis (F16e)	1-17	18-35	36+
Tracheoesophageal fistula (F16f)	1-15	16-31	32+
Omphalocele (F16g)	1-9	10-19	20+
Duodenal, jejunal, or ileal atresia (F16h)	1-11	12-23	24+
Anorectal malformation (F16i)	1-19	20-39	40+
Extracorporeal life support therapy (F16j)	1-14	15-29	30+
Transcatheter PDA closure (F16k)	1-9	10-19	20+
<ul> <li>Hemodialysis, non-ECMO CRRT, peritoneal dialysis in your NICU (F16I)</li> </ul>	1-9	10-19	20+
Nephrology (33 points) Volume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
Number of dialysis patients (max points = 12)			
ESRD patients < 5 years of age on hemodialysis or peritoneal dialysis (G20a)	1-4	5-9	10+
• ESRD patients ≥ 5 and < 18 years of age on hemodialysis or peritoneal dialysis (G20b)	1-14	15-29	30+
• Dialysis treatment volume in days (previous year) (G8a)	1-249	250-499	500+
• Dialysis treatment volume in days (current year) (G8b)	1-249	250-499	500+
Number of kidney biopsies, 2 years (max points = 6)			
Native kidney percutaneous biopsies (G14a)	1-25	26-75	76+
Percutaneous kidney transplant biopsies (G27)	1-10	11-25	26+
Number of kidney transplants (max points = 6)	-		
<ul> <li>Deceased-donor kidney transplant patients (G32.1a1 and G32.2a1)</li> </ul>	1-8	9-17	18+
<ul> <li>Living donor kidney transplant patients (G32.1a2 and G32.2a2)</li> </ul>	1-7	8-16	17+
Number of patients, 2 years (max points = 9)			
Inpatient admissions and consultations (G18.1)	1-200	201-400	401+
Inpatient admissions and consultations with acute kidney injury (G18.2)	1-50	51-150	151+
New outpatient evaluations/consultations (G18.3)	1-499	500-999	1,000+
* Parenthetical references indicate related survey questions			(continued)

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 7. Volume Measures by Specialty (continued)** 

	eurology and Neurosurgery (51 points) Slume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
Nι	ımber of patients undergoing epilepsy workups and t	reatments	** (max po	ints = 15)
•	Initial medical evaluations with patients newly diagnosed with epilepsy (H9a)	1-599	600-1,199	1,200+
•	Standard EEG evaluations (H9b)	1-999	1,000- 1,999	2,000+
•	Long-term EEG evaluations for inpatients (H9c)	1-449	450-899	900+
•	Long-term EEG monitoring with the apparatus applied in the hospital for outpatients (H9d)	1-449	450-899	900+
•	Number of first-time surgical procedures for epilepsy (H9e)	1-9	10-19	20+
Nι	umber of patients undergoing surgeries (max points =	36)		
•	Surgical resection or laser ablation for patients with epilepsy (H8)	1-7	8-15	16+
•	Brain tumors (benign/malignant) (H16a)	1-24	25-49	50+
•	Craniosynostosis (H16b)	1-19	20-39	40+
•	Hydrocephalus shunt procedures (H16c)	1-74	75-149	150+
•	Medically intractable epilepsy (H16d)	1-11	12-23	24+
•	Spina bifida, excluding in utero and immediate postnatal repair of myelomeningocele (H16e)	1-19	20-39	40+
•	Chiari I malformation (H16f)	1-29	30-64	65+
•	Endoscopic treatment of hydrocephalus (H16g)	1-24	25-39	40+
•	Brachial plexus exploration/reconstruction (H16h)	1-2	3-5	6+
•	Spasticity (H16i)	1-11	12-23	24+
•	Vascular cases excluding angiograms with pediatric anesthesia assisting with the case (H16j)	1-9	10-19	20+
•	Craniotomies for trauma (H16k)	1-11	12-23	24+
	thopedics (51 points) lume Measures*	Low Volume	Medium Volume	High Volume
Νι	umber of patients (max points = 24)			
		(2 points)	(4 points)	(6 points)
	Patients transferred from another hospital for inpatient care (I14.1a)	50-149	150-299	300+
	Pediatric trauma patients who received pediatric orthopedic trauma surgery within 72 hours of admission (I14.1b)	1-299	300-599	600+
		(1 point)	(2 points)	(3 points)
	Inpatients or observation patients with fractures or musculoskeletal injuries (I14a)	1-299	300-599	600+
•	Outpatients including those seen in the ED with fractures or musculoskeletal injuries (I14b)	1-1,999	2,000- 3,999	4,000+
	Scoliosis correction patients (I31a-b)	1-149	150-299	300+
	Single event multilevel surgery (I45)	1-19	20-39	40+
	granthatical references indicate related survey questions			(continued)

<sup>\*</sup> Parenthetical references indicate related survey questions.

\*\* Volume represents procedures, not patients. For the first five metrics (E11a-f, E12a-f), volumes from NCDR report are used if available for all quarters in the most recent year.

**Table 7. Volume Measures by Specialty (continued)** 

	Low	Medium	High
Orthopedics (51 points)(continued)	Volume	Volume	Volume
Volume Measures*		(2 points)	(3 points)
Number of procedures and surgeries** (max points = 27	) I	I	T
<ul> <li>Motion laboratory diagnostic clinical evaluations of neuromuscular pediatric patients (I20a)</li> </ul>	1-24	25-49	50+
<ul> <li>Motion laboratory diagnostic research evaluations of neuromuscular pediatric patients (I20b)</li> </ul>	1-24	25-49	50+
Open reduction developmental dysplasia of the hip (I24a)	1-7	8-15	16+
<ul> <li>Ponsetti treatment for clubfoot in patients ≤ 1 years old (I24b)</li> </ul>	1-99	100-199	200+
<ul> <li>Bernese pelvic osteotomy in patients ≤ 18 years old (I24c)</li> </ul>	1-6	7-13	14+
• Cast treatment for infantile scoliosis < 5 years old (I24d)	1-7	8-15	16+
• ACL reconstruction (males < 14 years old or females < 12 years old) (I24e)	1-9	10-19	20+
Femoral and tibial leg lengthening surgery (I24f)	1-3	4-7	8+
Oncologic surgery (I24g)	1-3	4-7	8+
	Low	Medium	High
Pulmonology & Lung Surgery (29 points)	Volume	Volume	Volume
Volume Measures*		(2 points)	(3 points)
Number of tests and noninvasive procedures** (max po	ints = 12)		
• 12- or 32-channel polysomnographic studies (J36)	1-999	1,000- 1,999	2,000+
Patients receiving home CPAP therapy (J37)	1-89	90-179	180+
<ul> <li>Patients with chronic respiratory failure receiving BiLevel therapy, noninvasive positive pressure ventilation support, or diaphragm pacing (J39)</li> </ul>	1-49	50-99	100+
Bronchoscopy and laryngoscopy (J49)	1-199	200-399	400+
<b>Number of patients</b> (max points = 17)			
CF patients (J24a)	1-124	125-249	250+
Neuromuscular weakness disorders (J30)	1-49	50-99	100+
Ventilator-dependent patients, 3 years (J40)	1-69	70-139	140+
Rare lung disease (J26)	1-39	40-79	80+
Lung disease of prematurity (J27)	1-59	60-119	120+
• Lung transplants, 3 years (J46.1)	1-3	4+	NA
Urology (42 points) Volume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
Number of minimally invasive procedures for patients ≤	_ `		(5 points)
<ul> <li>Stone treatment/shock wave lithotripsy, ureteroscopy,</li> </ul>	: <b>ΔΖ</b> (ΠΙΔΧ Ρί	)	
and percutaneous nephrolithotripsy or nephrolithotomy (K11a)	1-14	15-29	30+
Laparoscopic surgery (pure laparoscopic or robotic- assisted laparoscopic) including cyst ablation, pyeloplasty, nephrectomy, partial nephrectomy, heminephrectomy, ureteral reimplantation, or ureteroureterostomy (K11b)  * Parenthetical references indicate related survey questions.	1-13	14-27	28+ (continued)

<sup>\*</sup> Parenthetical references indicate related survey questions. (continued)

\*\* Volume represents procedures, not patients. For the first five metrics (E11a-f, E12a-f),

volumes from NCDR report are used if available for all quarters in the most recent year.

**Table 7. Volume Measures by Specialty (continued)** 

	ology (42 points) (continued) lume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
Nu	<i>Imber of patients</i> (max points = 12)			
•	Pediatric urology outpatients (2 years), (K8b)	1-4,999	5,000- 9,999	10,000+
•	Pediatric urology surgical cases** (2 years) (K9)	1-999	1,000- 1,999	2,000+
•	Spina bifida program (K10a)	1-74	75-149	150+
•	Comprehensive stone program (K10b)	1-74	75-149	150+
Nu	mber of surgeries (max points = 24)			
•	Radical or partial nephrectomy for malignancies (K12a)	1-2	3+	NA
•	Nephrectomy or partial nephrectomy for benign disease (K12b)	1-39	40+	NA
•	Ureteral reimplantation (K12c)	1-4	5+	NA
•	Ureteroureterostomy (K12d)	1-4	5+	NA
•	Exstrophy closures (K13a)	1-2	3+	NA
•	Reconstructive open procedures for incontinence or hostile bladder (K13b)	1-19	20+	NA
•	Posterior urethral valve ablation in infants <3 months old (K13c)	1-5	6+	NA
•	Complex urethroplasty for urethral injury or stricture disease (K13d)	1-44	45+	NA
•	Complex re-operative hypospadias repair (K13e)	1-24	25+	NA
•	Distal hypospadias – primary repairs and not reoperative cases** (K14a)	1-59	60-119	120+
•	Pyeloplasty** (K14b)	1-14	15-29	30+
	havioral Health (117 points)	Low Volume	Medium Volume	High Volume
Vo	lume Measures*		(2 points)	
Nu	umber of patients (max points = 117)	( point)	(= points)	(o pomes)
•	Inpatient ADHD (L18a)	1-199	200-299	300+
•	Outpatient ADHD (L18a)	1-1,999	2,000- 2,999	3,000+
•	Inpatient autism spectrum disorders (L18b)	1-149	150-299	300+
•	Outpatient autism spectrum disorders (L18b)	1-1,999	2,000- 2,999	3,000+
•	Inpatient global developmental delays and intellectual disabilities (L18c)	1-49	50-199	200+
•	Outpatient global developmental delays and intellectual disabilities (L18c)	1-1,999	2,000- 2,999	3000+
•	Inpatient language and learning disorders (L18d)	1-29	30-59	60+
•	Outpatient language and learning disorders (L18d)	1-1,999	2,000- 2,999	3,000+
•	Inpatient motor disorders (L18e)	1-149	150-299	300+
•	Outpatient motor disorders (L18e)	1-499	500-999	1,000+
	arenthetical references indicate related survey questions	•		(continued)

<sup>\*</sup> Parenthetical references indicate related survey questions. (contact volume represents procedures, not patients. For the first five metrics (E11a-f, E12a-f), volumes from NCDR report are used if available for all quarters in the most recent year.

**Table 7. Volume Measures by Specialty (continued)** 

	havioral Health (117 points) (continued) lume Measures*	Low Volume (1 point)	Medium Volume (2 points)	High Volume (3 points)
•	Inpatient disruptive, impulse-control, and conduct disorders (L18f)	1-49	50-99	100+
•	Outpatient disruptive, impulse-control, and conduct disorders (L18f)	1-299	300-599	600+
•	Inpatient schizophrenia spectrum and other psychotic disorders (L18g)	1-49	50-99	100+
•	Outpatient schizophrenia spectrum and other psychotic disorders (L18g)	1-49	50-99	100+
•	Inpatient bipolar and related disorders (L18h)	1-29	30-59	60+
•	Outpatient bipolar and related disorders (L18h)	1-49	50-99	100+
•	Inpatient depressive disorders (L18i)	1-399	400-799	800+
•	Outpatient depressive disorders (L18i)	1-999	1,000- 1,999	2,000+
•	Inpatient anxiety disorders (including OCD) (L18j)	1-349	350-699	700+
•	Outpatient anxiety disorders (including OCD) (L18j)	1-1,999	2,000- 3,999	4,000+
•	Inpatient trauma- and stressor-related disorders (L18k)	1-149	150-299	300+
•	Outpatient trauma- and stressor-related disorders (L18k)	1-799	800- 1,599	1,600+
•	Inpatient substance-related and addictive disorders (L18I)	1-89	90-179	180+
•	Outpatient substance-related and addictive disorders (L18I)	1-89	90-179	180+
•	Inpatient gender dysphoria (L18m)	1-14	15-29	30+
•	Outpatient gender dysphoria (L18m)	1-89	90-179	180+
•	Inpatient feeding or eating disorders (L18n)	1-99	100-199	200+
•	Outpatient feeding or eating disorders (L18n)	1-499	500-999	1,000+
•	Inpatient elimination disorders (L18o)	1-89	90-179	180+
•	Outpatient elimination disorders (L18o)	1-199	200-399	400+
•	Inpatient sleep-wake disorders (L18p)	1-49	50-99	100+
•	Outpatient sleep-wake disorders (L18p)	1-499	500-999	1,000+
•	Inpatient somatic symptom and related disorders (L18q)	1-14	15-29	30+
•	Outpatient somatic symptom and related disorders (L18q)	1-49	50-99	100+
•	Inpatient neurocognitive disorders (L18r)	1-14	15-29	30+
•	Outpatient neurocognitive disorders (L18r)	1-24	25-49	50+
•	Inpatient other behavioral health conditions (L18s)	1-299	300-599	600+
•	Outpatient other behavioral health conditions (L18s)	1-899	900- 1,799	1,800+
•	ED or other behavioral health emergency services (L23.1)	1-1,499	1,500- 2,999	3,000+

<sup>\*</sup> Parenthetical references indicate related survey questions.

#### **B.** Normalization

Structural measures are 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. The formula for normalization is provided in Equation (1):

Equation (1) Normalized Value = 
$$X_i$$
 /(Maximum<sub>i</sub> - Minimum<sub>i</sub>)

where

 $X_i$  = the value for measure i and

 $Maximum_i$  = the highest *possible* value for measure *i*.

 $Minimum_i$  = the lowest possible value for measure i.

For example, the Urology patient volume measure is worth a maximum of 12 points. If a hospital received 8 of 12 points, its normalized value for Urology patient volume would be 8/(12-0) = 0.66. For nurse staffing, which does not have an absolute maximum, we cap the maximum value at 4.0 to reduce skewness in the data.

### C. Weighting

For the 2012-13 rankings, we convened a special panel to provide feedback on the weighting of each measure within the three major rankings components. This evaluation was conducted both across specialties to build in a degree of consistency in weighting, and within specialties to identify keys to quality in a particular specialty. Overall, the weights were determined using input from the project team and working groups based on how important each measure was in defining the Donabedian components of quality of care within hospitals.

Table 8 shows the relative weight, by specialty, for each measure that makes up the structural component of the specialty rankings. The combined structural components comprise 33.3% of the overall score in each specialty, except for Behavioral Health. To determine the total structural points for a hospital, multiply the normalized value of each measure by the measure weight. In the example provided under normalization (Section IV.B), a hospital that received 8 of 12 points for Urology patient volume would have a normalized score of 0.66. The relative weight for patient volume in Urology is 1. Therefore, the hospital would have a total of 0.66 for patient volume. Do this for all measures in a specialty, and then sum the values to determine the total points received. To determine the percentage of the overall score for a given measure, divide the individual measure relative weight by the total weight for that specialty and multiply by 33.3 (since the combined structural components comprise 33.3% of the overall score in each specialty, except for Behavioral Health).

For Behavioral Health, Table 8 also shows the relative weigh for each measure that makes up the structural component of the specialty rankings. However, for this specialty, the combined structural components comprise 40% of the overall score in this specialty. Calculation of points follows the same pattern as in other specialties; however, the maximum possible points are equal to 40% of the final overall score.

**Table 8. Relative Weights of Individual Structural Measures by Specialty** 

Measure	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterolog y & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Accredited by FACT	1.5										
Active fellowship program	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.5	1.25	1
Adoption of health information technology	1	1	1	1	1	1	1	1	1	1	0.5
Adult congenital heart program		1.25									
Advanced clinical services offered	1	1	1	1	1	1	1	1	1	1	
Advanced technologies available	1	1	1	1	1	1	1	1	1	1	
Bone marrow transplant services	1										
Clinical support services offered	1	1	1	1	1	1	1	1	1	1	2.5
Commitment to clinical research	1.5	1.25	1.25	1.25	1.25	1	1.25	1.25	1.5	1.5	1
Commitment to quality improvement	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2
Congenital heart program		1.25									
ECMO availability					1						
Emergency Department and Urgent Care for Behavioral Health											1.5
Enlists families in structuring care	1.5	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1
Has full-time subspecialists available	1	1	1	1	1	1	1	1	1	1	2.5

Table 8. Relative Weights of Individual Structural Measures by Specialty

						Ĭ					
Measure	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterolog y & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Help for families	1	1	1	1	1	1	1	1	1	1	1
Neonatal Transport					1						
Nurse staffing	2	2	2	2	2	2	2	2	2	2	1.5
Percentage of dialysis patients who had transplants						1.25					
Provides advanced palliative care	1.5										
Recognized as a Nurse Magnet hospital	2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1
Specialized clinics and programs	1.25		1	1	1		1	1		1	2.5
Success in helping patients manage their asthma									1.25		
Success in managing neuro- muscular weakness disorder									1.25		
Tracking growth metrics for treated patients					1						
Transplant program (heart, liver, lung)		0.33		0.28					0.30		
Volume: Number of catheter procedures		1									
Volume: Number of dialysis patients						0.67					
Volume: Number of epilepsy workups and treatment							1				
Volume: Number of kidney biopsies						0.67					
Volume: Number of kidney transplants						0.27					
Volume: Number of minimally invasive procedures										1	
Volume: Number of new patients	1										

Table 8. Relative Weights of Individual Structural Measures by Specialty

Measure	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterolog y & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Volume: Number of Norwood or hybrid surgeries		1									
Volume: Number of patients	1		1	1	1.5	0.67		1.5	1	1	2
Volume: Number of procedures			1								
Volume: Number of procedures and surgeries								1.5			
Volume: Number of surgeries	1	1.5		1			1			1	
Volume: Number of tests and noninvasive procedures				1					1		
Total	24.00	21.08	17.75	19.03	20.25	18.03	17.75	18.75	20.05	19.00	20.00

#### V. Process

The process component in Best Children's Hospitals is represented by three measures—commitment to best practices; ability to prevent infections and enhance equity, diversity, and inclusion for patients, families, and staff; and expert opinion of pediatric specialists. The combined process measures are worth 33.3% of the overall score in all specialties except for pediatric cardiology and behavioral health. In pediatric cardiology, the process component is worth 28.3% of the total score and in behavioral health, the process component is worth 40.0% of the total score.

#### A. Commitment to Best Practices

This measure evaluates hospitals' commitment to following and implementing best practices. Best practices were identified for all specialties. *Table 9* identifies the best practices identified for each specialty and the number of points awarded.

**Table 9. Commitment to Best Practices by Specialty** 

Cancer* (46 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least two pediatric interventional radiologists that spent $\geq 0.5$ FTE doing pediatric interventional radiology (A4.1)	1
<ul> <li>Offering the following to reduce radiation exposure to patients and staff (A10.1):</li> <li>Provide a designated medical director of radiology to oversee quality and safe practices</li> <li>Iterative reconstruction software on all CT scanners</li> <li>MRI safety program compliant with American College of Radiology (ACR) guidelines</li> <li>Participation in the ACR CT dose index registry OR use of dose monitoring software for tracking pediatric patients undergoing CT scans</li> <li>Dedicated MRI Safety Officer</li> </ul>	5
Maintaining the following certifications (A10.3):	
<ul> <li>Accreditation in CT imaging from ACR</li> <li>Accreditation in nuclear medicine from ACR or the Intersocietal Accreditation Commission (IAC)</li> <li>All sonographers have an ultrasound certificate from the American Registry of Diagnostic Medical Sonographers (ARDMS) and the American Registry of Radiologic Technologists (ARRT)</li> </ul>	6
<ul> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> <li>Program accreditation in ultrasound from ACR or AIUM</li> <li>Accreditation in MRI from ACR</li> </ul>	
Having the following specialists (A10.4):  • At least one board-certified Medical Physicist  • At least 75% of Radiologic Technologists accredited by ARRT	2
Having patients undergoing imaging studies (e.g., MRI, CT, or voiding cystourethrogram scans) provided access to a certified child life specialist (A10.5)	1
<ul> <li>Engaging in activities designed to ensure high reliability (A39):</li> <li>All clinical staff are trained in code response using simulations or other team training</li> <li>Team training includes clear instructions and demonstration of roles and lines of communication</li> <li>Team training is videotaped to allow review of performance and needs for improvement</li> <li>Team training includes critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>All team training ends with development of an action plan to address problems identified during the training or simulation</li> </ul>	5

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Cancer* (46 points)	Points
Having at least 0.5 FTE nurse practitioners, physician assistants, or clinical nurses (including contract nurses) devoted to case management for each of the following patient populations (B4):  Hematologic malignancies  Solid tumors  Brain tumors  Stem cell transplants	4
Offering an institutional code team to immediately address emergencies in outpatient cancer treatment clinics (B5)	1
Offering a parent advisory committee that meets at least twice a year (B11.3)	1
Having a PAG specialist consulted on an ongoing basis for the fertility preservation program (B11.5)	1
Participating in morbidity and mortality conferences at least quarterly (B12)	1
Having multidisciplinary tumor boards that meet at least monthly to discuss the following patient populations in active treatment (B13):  Hematologic malignancy Solid tumor Brain tumor Stem cell transplant	4
<ul> <li>Promoting ease of access through the following mechanisms (B14):</li> <li>Offering onsite direct oncology-specific patient care (not just emergency care) from hematology/oncology providers during nights and weekends</li> <li>A coordinated outreach program that enables cancer patients to receive community-based follow-up care or treatment</li> <li>Multidisciplinary clinics allowing patients to see multiple care providers in a single visit</li> </ul>	3
Submitting data to the Center for International Blood & Marrow Transplant Research(CIBMTR) or the Stem Cell Therapeutic Outcome Database (SCTOD) (B20)	1
Patients have thyroidectomies performed by a high-volume thyroid surgeon (>25 thyroid resections per year) (B27.1)	1
Percentage of patients receiving radical nephrectomy for Wilms tumor underwent lymph node sampling during the procedure (B27.2):  1 point for ≥ 50% & < 80%  2 points for ≥ 80%	2
Percentage of patients who completed cancer treatment in 2018-2020 and received care through a formal long-term survivor program (B28):  1 point for ≥ 50% & < 75%  2 points for ≥ 75%	2
Percentage of living patients 1-3 years post-treatment with certain cancer diagnoses and who received cranial radiation, total body irradiation, or intracranial surgery had documentation of a formal neuropsychological evaluation conducted since the completion of therapy (B28.1):  1 point for ≥ 25% & < 75%  2 points for ≥ 75%	2

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Cancer* (46 points)	Points
Percentage of school-age patients with certain cancer diagnoses were formally assessed for school intervention services since diagnosis and before the end of the last calendar year (B28.2):  1 point for ≥ 25% & < 75%  2 points for ≥ 75%	2
≥ 75% of pediatric brain tumor patients (from B27b) were enrolled in a formal, comprehensive neuro-oncology clinic for their care coordination (B28.3)	1
Cardiology & Heart Surgery* (60 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric interventional radiologists that spent $\geq$ 0.5 FTE doing pediatric interventional radiology (A4.1)	1
<ul> <li>Offering the following to reduce radiation exposure to patients and staff (A10.1):</li> <li>Provide a designated medical director of radiology to oversee quality and safe practices</li> <li>Iterative reconstruction software on all CT) scanners</li> <li>MRI safety program compliant with ACR guidelines</li> <li>Participation in the ACR CT dose index registry OR use of dose monitoring software for tracking pediatric patients undergoing CT scans</li> <li>Dedicated MRI Safety Officer</li> </ul>	5
<ul> <li>Maintaining the following certifications (A10.3):</li> <li>Accreditation in CT imaging from ACR</li> <li>Accreditation in nuclear medicine from ACR or IAC</li> <li>All sonographers have an ultrasound certificate from ARDMS and ARRT</li> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> <li>Program accreditation in ultrasound from ACR or AIUM</li> <li>Accreditation in MRI from ACR</li> </ul>	6
<ul> <li>Having the following specialists (A10.4)</li> <li>At least one board-certified Medical Physicist</li> <li>At least 75% of Radiologic Technologists are accredited by ARRT</li> </ul>	2
<ul> <li>Engaging in activities designed to ensure high reliability (A39):</li> <li>All clinical staff are trained in code response using simulations or other team training</li> <li>Team training includes clear instructions and demonstration of roles and lines of communication</li> <li>Team training is videotaped to allow review of performance and needs for improvement</li> <li>Team training includes critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>All team training ends with development of an action plan to address problems identified during the training or simulation</li> </ul>	5

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Table 9. Commitment to Best Practices by Specialty	
Cardiology & Heart Surgery* (60 points) continued	Points
Number of pediatric cardiothoracic surgeons with subspecialty certification in congenital heart surgery from the American Board of Thoracic Surgery (E2a) or certification from foreign organizations (e.g., the Fellowship of the Royal Colleges of Surgeons (FRCS)), practice exclusively or primarily (greater than 90%) in congenital heart surgery and are not eligible for Subspecialty Certification in Congenital Heart Surgery from the ABTS (E2.2):	2
1 point for 1 surgeon	
2 points for 2+ surgeons	
Routinely tracking and submitting to IMPACT every unplanned cardiothoracic procedure, vascular surgical procedure, other surgical procedure or cardiac catheterization due to a catheterization complication (E9)	1
Having IMPACT Registry data available in the NCDR database covering April 1, 2022, through March 31, 2023 (E10)	1
Performing lead extraction for pacemaker or automatic implantable cardioverter defibrillator (ICD/AICD) leads either onsite at the hospital or offsite at a SINGLE hospital (or both onsite at the hospital and off site at a SINGLE affiliated hospital) (E15.1)	1
Having data from operations performed at your institution in 2019 to 2022 appear on the STS Public Reporting On-Line Program $(E18.3)$	2
Offering the following conferences/programs (E27):	
<ul><li>Multidisciplinary morbidity and mortality conferences</li><li>Multidisciplinary maternal/fetal medicine conferences</li></ul>	4
Patient planning conferences	
Support groups for patients and families with congenital heart conditions	
Offering the following pediatric cardiology programs with a nursing and/or administrative coordinator (E27.1)	
Active home surveillance program	
Neurodevelopmental follow-up program	
Fontan follow-up program  Fotal condictory management	
<ul><li>Fetal cardiology program</li><li>Pulmonary hypertension program</li></ul>	9
Neuromuscular program	
Aortopathy program	
Preventive cardiology program	
Heart failure/transplant clinic	
Engaging in the following surgical safety procedures for cardiac surgical procedures (E35):	
Conventional pre-procedural "time-out"	4
Pre-procedural briefings	4
Post-procedural debriefings	
Implementation of a hand-off protocol or briefing	
Engaging in the following surgical safety procedures for cardiac catheterization procedures (E35.1):	
Conventional pre-procedural "time-out"	3
Pre-procedural briefings	
Implementation of a hand-off protocol or briefing	

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Cardiology & Heart Surgery* (60 points) continued	Points
Using clinical practice guidelines to manage perioperative and postoperative care for the following patient populations (E36):  • Single ventricle/shunt management  • Two-ventricle repairs  • Infant feeding  • Anticoagulation with Coumadin  • Sedation and pain management	5
Routinely tracking and reporting every occurrence of the following surgical complications to the STS database (E37):  • Unplanned reoperation or intervention during the same hospital admission  • Re-exploration for bleeding  • Deep sternal wound infection/mediastinitis  • Arrhythmia necessitating temporary and permanent pacemakers  • Postop mechanical circulatory support  • Postop renal failure  • Stroke	7
Percentage of hybrid and Norwood Stage 1 surgery patients alive 1 year after surgery who had a neurodevelopment evaluation prior to 24 months of age (E41):  • At least 75% of patients in evaluation (Year 1)  • At least 75% of patients in evaluation (Year 2)	2
Diabetes & Endocrinology* (122 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric interventional radiologists that spent $\geq$ 0.5 FTE doing pediatric interventional radiology (A4.1)	1
Offering the following to reduce radiation exposure to patients and staff (A10.1):  Provide a designated medical director of radiology to oversee quality and safe practices  Iterative reconstruction software on all CT scanners  MRI safety program compliant with ACR guidelines  Participation in the ACR CT dose index registry OR use of dose monitoring software for tracking pediatric patients undergoing CT scans  Dedicated MRI Safety Officer	5
<ul> <li>Maintaining the following certifications (A10.3):</li> <li>Accreditation in CT imaging from ACR</li> <li>Accreditation in nuclear medicine from ACR or IAC</li> <li>All sonographers have an ultrasound certificate from ARDMS and ARRT</li> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> <li>Program accreditation in ultrasound from ACR or AIUM</li> <li>Accreditation in MRI from ACR</li> </ul>	6
<ul> <li>Having the following specialists (A10.4):</li> <li>At least one board-certified Medical Physicist</li> <li>At least 75% of Radiologic Technologists are accredited by ARRT</li> </ul>	2

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Diabetes & Endocrinology* (122 points) continued	Points
Having patients undergoing imaging studies (e.g., MRI, CT, or voiding cystourethrogram scans) provided access to a certified child life specialist (A10.5)	1
<ul> <li>Engaging in activities designed to ensure high reliability (A39):</li> <li>All clinical staff are trained in code response using simulations or other team trainings</li> <li>Team trainings include clear instructions and demonstration of roles and lines of communication</li> <li>Team trainings are videotaped to allow review of performance and needs for improvement</li> <li>Team trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>All team trainings end with the development of an action plan to address problems identified during the training or simulation</li> </ul>	5
Diabetes staff taking a leadership role in organizing and running a diabetes camp $(C10)$	1
Having pediatric diabetes staff take a leadership role in a formal advocacy effort supporting the rights of patients $(C11)$	1
Hosting or actively involved in organizing a diabetes-specific technology education program to increase awareness and access to new technology to decrease health disparity (C13)	1
Diabetes education program recognized by American Diabetes Association or American Association of Diabetes Educators (C14)	1
Having a formal, written assessment of diabetes management knowledge that is:  • Administered after initial education and yearly thereafter (C15)  • Recorded in electronic health records (C15.1)	2
Percentage of diabetes patients on insulin therapy admitted as inpatients to other services, were seen by providers in the pediatric diabetes program (C16 and C16.1):  1 point for ≥ 50% & < 75%  2 points for ≥ 75% & < 90%  3 points for ≥ 90%	3
Having a formal written transition program to prepare pediatric patients for the transition to an adult diabetes program (C17)	1
Steps for transition of patients recorded in electronic health records (C17.1)	1
Having $\geq$ 90% of diabetes <b>outpatients</b> receive a written (or electronic) report of their diagnosis/findings and a treatment plan at the conclusion of their most recent visit (C18a)	1
Having $\geq$ 90% of diabetes <b>inpatients</b> receiving a written (or electronic) report of their diagnosis/findings and a treatment plan at the conclusion of their most recent visit (C18b)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Diabetes & Endocrinology* (122 points) continued	Points
<ul> <li>Always including the following elements in summaries available to patients after outpatient visits, including telemedicine visits (C19):</li> <li>Complete insulin dosages</li> <li>MDI dosages for pump failure, for those on insulin pumps</li> <li>Glucose monitoring recommendations including periodic self-assessment of glycemia patterns</li> <li>A1c values from within 2 weeks of visit date and/or percentage of time "in range" (70–180 mg/dl) or Glucose Management Indicator (GMI) from at least 2 weeks of CGM data</li> <li>Follow-up visit instructions</li> <li>Information on when and how to contact the Diabetes Center</li> <li>Referrals made for laboratory, ophthalmological, dental, and mental health before next visit</li> <li>Behavioral goals</li> </ul>	8
Having a clinical database of attributes of current, active diabetes patients that is used for quality assessment and improvement (C20)	1
Having a written plan to review inpatient incidents of insulin-related medication errors and adverse drug events requiring IV glucose treatment (C21)	1
<ul> <li>Having written consensus protocols or guidelines for management of the following patient populations (C22):</li> <li>Glucagon mini-dose for families</li> <li>Periodic screening for complications of diabetes in the outpatient clinic</li> <li>Evaluation of hyperglycemia in critically ill inpatients</li> <li>Outpatient management of Type 2 diabetes patients</li> <li>Outpatient management of pre-diabetes patients who typically have obesity and insulin resistance</li> <li>Inpatient management of Hyperglycemic Hyperosmolar Syndrome</li> <li>Guidelines for outside physicians and EDs for recognition and initial management of diabetes and diabetes ketoacidosis (DKA)</li> <li>Inpatient management of patients using insulin pumps</li> <li>Inpatient glucose assessments for patients using CGM</li> <li>Education on islet cell antibody testing for first degree relatives of patients with type 1 diabetes</li> </ul>	10
Performing care review for all patients admitted with a primary diagnosis of diabetes at an interdisciplinary team prior to discharge (C23)	1
Having regularly scheduled interdisciplinary care conferences to discuss diabetes patients with elevated A1c, recurrent DKA, frequent severe hypoglycemia, or significant psychosocial challenges (C25 and C26):  1 point for 1-11 times/year  2 points for 12+ times/year	2
Having an EMR dashboard or reporting mechanism to identify which patients should get intensified diabetes management (C27)	1
Having a formal intensified diabetes management protocol for patients who need it $(C27.1)$	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Diabetes & Endocrinology* (122 points) continued	Points
Interacting with clinical laboratory or pathology service to review lab findings, problems and updates (C28)	1
Testing new-onset patients for islet cell antibodies (GAD65, IAA, ICA512/IA2, and ZnT8) (C28.3)	1
Offering genetic testing for MODY to patients with a Type 1 Diabetic phenotype but who are islet cell antibody negative (C28.4)	1
Asking about the number of hospital admissions, emergency visits or urgent care visits since the last diabetes outpatient visit (C29)	1
Tracking the number of hospital admissions, emergency visits or urgent care visits since the last diabetes outpatient visit in EMR (C29.1)	1
Percentage of primary care diabetes patients with face-to-face or telehealth visit with a registered dietitian for medical nutrition therapy (C30a): • 1 point for $\geq$ 50% & < 75% • 2 points for $\geq$ 75%	2
Percentage of primary care diabetes patients with face-to-face or telehealth visit with a CDCES for diabetes education (C30b): • 1 point for $\geq$ 50% & < 75% • 2 points for $\geq$ 75%	2
Percentage of primary care diabetes patients with face-to-face or telehealth visit with a social worker, psychologist, or mental health professional for an assessment (C30c):  1 point for ≥ 25% & < 50%  2 points for ≥ 50%	2
Percentage of Type 1 primary care diabetes patients with a thyroid stimulating hormone (TSH) documented in their medical chart in past 2 years (C31a):  1 point for ≥ 50% & < 75%  2 points for ≥ 75% & < 90%  3 points for ≥ 90%	3
Percentage of Type 1 primary care diabetes patients $\geq$ 11 and < 19 years of age who had a lipid profile within the past 3 years (C31b):  • 1 point for $\geq$ 50% & < 75%  • 2 points for $\geq$ 75% & < 90%  • 3 points for $\geq$ 90%	3
Percentage of Type 1 primary care diabetes patients $\geq$ 11 and < 19 years of age (with diabetes for at least 5 years) who received a microalbuminuria screening in the past year (C31c):  • 1 point for $\geq$ 40% & < 65%  • 2 points for $\geq$ 65% & < 80%  • 3 points for $\geq$ 80%	3

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Diabetes & Endocrinology* (122 points) continued	Points
Percentage of Type 1 primary care diabetes patients ≥ 11 and < 19 years of age (with diabetes for at least 5 years) who received a dilated retinal or non-mydriatic camera examination in the last two calendar years (C31d):  1 point for ≥ 40% & < 65%  2 points for ≥ 65% & < 80%  3 points for ≥ 80%	3
Percentage of Type 2 primary care diabetes patients who had a lipid profile performed in the past year (C31e):  1 point for ≥ 50% & < 75%  2 points for ≥ 75% & < 90%  3 points for ≥ 90%	3
Percentage of Type 2 primary care diabetes patients who received a microalbuminuria screening in the past year (C31f):  1 point for ≥ 40% & < 60%  2 points for ≥ 60% & < 80%  3 points for ≥ 80%	3
Percentage of Type 2 primary care diabetes patients who received a dilated retinal or non-mydriatic camera examination in the past 2 calendar years (C31g):  1 point for ≥ 40% & < 60%  2 points for ≥ 60% & < 80%  3 points for ≥ 80%	3
Percentage of primary care Type 1 diabetes pediatric patients (not all Type 1 diabetes patients) that are < 19 years of age who were treated in the past 12 months or longer, and who have not met the criteria for adequate diabetes management, who scheduled for 4 or more outpatient clinic visits in past 12 months (C32a):  1 point for ≥ 40% & < 65% 2 points for ≥ 65% & < 80% 3 points for ≥ 80%	3
Percentage of primary care Type 1 diabetes pediatric patients that are < 19 years of age who were treated in the past 12 months or longer, and who have not met the criteria for adequate diabetes management, who attended 4 or more outpatient clinic visits in past 12 months (C32b):  1 point for ≥ 40% & < 65% 2 points for ≥ 65% & < 80% 3 points for ≥ 80%	3
Two or more documented interpretations of CGM readings associated with ambulatory visits for primary care Type 1 diabetes pediatric patients that are < 19 years of age for private and Medicaid insurance in the past year (C32.1, C32.2): Private insurance  • 1 point for ≥ 50% and < 75% of patients  • 2 points for ≥ 75% of patients  Medicaid insurance  • 1 point for ≥ 25% and < 75% of patients  • 2 points for ≥ 75% of patients	4

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Diabetes & Endocrinology* (122 points) continued	Points
Percentage of Type 1 primary care diabetes pediatric patients who are < 19 years of age and used an insulin pump in the past calendar year for private and Medicaid insurance (C33): Private insurance $\begin{array}{cccccccccccccccccccccccccccccccccccc$	4
Percentage of Type 1 primary care diabetes pediatric patients who are < 19 years of age and used a hybrid closed-loop pump or closed-loop pump in the past calendar year for private and Medicaid insurance (C33.1): Private insurance $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	4
Percentage of Type 1 and Type 2 primary diabetes care patients aged 13 to < 19 screened for depression in the past calendar year (C34):  1 point for ≥ 25% & < 50%  2 points for ≥ 50%	2
Percentage of Type 1 and Type 2 primary diabetes care patients who had an a score indicative of moderate or severe depressive symptoms or endorsed self-harm on their depression screen (see C34) were either referred for assessment by a mental health professional (social worker, licensed counselor, psychologist, or psychiatrist) or are already under the care of a mental health professional (C34.1):  1 point for ≥ 50% & < 75%  2 points for ≥ 75%	2
Tracking the number of school days missed for a diabetes-related problem (not including school missed for routine medical appointments) (C38)	1
Providing a program for Type 2 diabetes patients such that they see, at least twice per year, each of at least four diabetes providers (endocrinology physician or advanced practice provider (APP), diabetes RN educator, dietitian, social worker, psychologist, exercise physiologist, physical therapist, or pharmacist) (C40)	1
Using a clinical database used by the program to evaluate performance (C54 and $C54.1)$	1
Discussing thyroid cancer patient cases in active treatment at a multidisciplinary conference (including a tumor board or other review processes) (C56)	1
Percentage of patients admitted to the hospital in the past year with a potentially severe endocrine disorder that have an admission or consultation note written by a physician in the pediatric endocrinology program (C58):  1 point for ≥ 50% & < 75%  2 points for ≥ 75%  * Parenthetical references indicate related survey questions	2

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Diabetes & Endocrinology* (122 points) continued	Points
Having a system in place to alert providers that the following types of patients have not returned for care (C63):  • Type 1 and Type 2 diabetes • Congenital hypothyroidism • Congenital adrenal hyperplasia • Growth hormone therapy • Precocious puberty on therapy • Hyperthyroidism on antithyroid medication  Hospitals received 1 point for 1-3 types and 2 points for 4-6 types.	2
Hosting or conducting the following conferences or educational programs in the last year (C65):  • Joint case conferences with Internal Medicine • Joint case conferences with genetics program • Pediatric endocrinology case conference • Pediatric endocrinology journal club • CME-granting education activity conferences • Morbidity and Mortality or Review of Safety Issues conference Hospitals received 1 point for 1-34 conferences and 2 points for 35 or more conferences.	2
Gastroenterology & GI Surgery* (42 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric interventional radiologists that spent $\geq$ 0.5 FTE doing pediatric interventional radiology (A4.1)	1
<ul> <li>Offering the following to reduce radiation exposure to patients and staff (A10.1):</li> <li>Provide a designated medical director of radiology to oversee quality and safe practices</li> <li>Iterative reconstruction software on all CT scanners</li> <li>MRI safety program compliant ACR guidelines</li> <li>Participation in the ACR CT dose index registry or use of dose monitoring software for tracking pediatric patients undergoing CT scans</li> <li>Dedicated MRI Safety Officer</li> </ul>	5
<ul> <li>Maintaining the following certifications (A10.3):</li> <li>Accreditation in CT imaging from ACR</li> <li>Accreditation in nuclear medicine from ACR or IAC</li> <li>All sonographers have an ultrasound certificate from ARDMS and ARRT</li> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> <li>Program accreditation in ultrasound from ACR or AIUM</li> <li>Accreditation in MRI from ACR</li> </ul>	6
<ul> <li>Having the following specialists (A10.4)</li> <li>At least one board certified Medical Physicist</li> <li>At least 75% of Radiologic Technologists are accredited by ARRT</li> </ul>	2
Having patients undergoing imaging studies (e.g., MRI, CT, or voiding cystourethrogram scans) provided access to a certified child life specialist (A10.5)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

<ul> <li>Engaging in activities designed to ensure high reliability (A39):</li> <li>All clinical staff are trained in code response using simulations or other team training</li> <li>Team training includes clear instructions and demonstration of roles and lines of communication</li> </ul>	
Team training is videotaped to allow review of performance and needs for improvement	5
<ul> <li>Team training includes critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>All team training ends with development of an action plan to address problems identified during the training or simulation</li> </ul>	
Average "third next available" appointment time for new patients for an outpatient office visit (D6):  1 point for >7 & ≤ 30 days  2 points for ≤ 7 days	2
Providing educational programs for the following disease-specific GI conditions (D9):  Inflammatory bowel disease, Crohn's disease, or colitis  Celiac disease  Liver disease  Eosinophilic esophagitis  Chronic intestinal failure	5
Providing the following diagnostic and therapeutic procedures (D11.1)  Interventional radiology embolization for gastrointestinal bleeding  Interventional radiology for image-guided liver biopsies  Interventional radiology performance of transjugular intrahepatic portosystemic shunt (TIPS)  Interventional radiology performance of transjugular (TJ) liver biopsies  Interventional radiology performance of hepatic vein wedge pressure measurement  Interventional radiology placed de novo G or GJ tubes  Endoflip  On-site treatment of advanced esophageal strictures (interventions other than dilation)  Percutaneous transhepatic cholangiography	9
Having regular, multidisciplinary morbidity and mortality conferences for pediatric GI patients (D26)	1
Having a standard mechanism to determine whether complications have occurred in patients who underwent outpatient GI procedures (D27)	1
Having 1 or more IRB-approved protocols that provide GI patients access to drugs, biologics, or devices through compassionate use (D28)	1
Having the Pediatric GI program serve as a referral center for IBD patients for second or subsequent evaluations (D33.1)	1
Having nutritional therapy for patients with IBD to avoid the use of steroid therapy (D33.2)	1
Using nonsurgical approaches as an intervention for obesity in pediatric patients (D38)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Neonatology* (83 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric	
interventional radiologists that spent ≥ 0.5 FTE doing pediatric interventional	1
radiology (A4.1)	
Offering the following to reduce radiation exposure to patients and staff (A10.1):	
Provide a designated medical director of radiology to oversee quality and safe  practices.	
<ul> <li>practices</li> <li>Iterative reconstruction software on all CT scanners</li> </ul>	
<ul> <li>Iterative reconstruction software on all C1 scanners</li> <li>MRI safety program compliant with ACR guidelines</li> </ul>	5
<ul> <li>Participation in the ACR CT dose index registry OR use of dose monitoring</li> </ul>	
software for tracking pediatric patients undergoing CT scans	
Dedicated MRI Safety Officer	
Maintaining the following certifications (A10.3):	
Accreditation in CT imaging from ACR	
Accreditation in nuclear medicine from ACR or IAC	
All sonographers have an ultrasound certificate from ARDMS and ARRT	6
<ul> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> </ul>	
Program accreditation in ultrasound from ACR or AIUM	
Accreditation in MRI from ACR	
Having the following specialists (A10.4):	
At least one board certified Medical Physicist	2
At least 75% of Radiologic Technologists are accredited by ARRT	
Engaging in activities designed to ensure high reliability (A39):	
<ul> <li>All clinical staff are trained in code response using simulations or other team training</li> </ul>	
• Team training includes clear instructions and demonstration of roles and lines of communication	
Team training is videotaped to allow review of performance and needs for improvement	5
Team training includes critical event debriefing or team discussions that focus on	
identifying what worked well and where improvement is needed	
All team training ends with development of an action plan to address problems	
identified during the training or simulation	
Having in-house 24x7 coverage provided by board-certified or board-eligible neonatologists (F2.1)	1
Patient load per nurse practitioner or physician assistant (F3):	
<ul> <li>1 point for ≥ 9 patients</li> </ul>	2
• 2 points for < 9 patients	
Having at least 50% of direct clinical care RNs who have at least one of the following	
formal advanced training certifications: Neonatal intensive care (RNC-NIC, CCRN),	1
Lactation (IBCLC, CLC, or CBC), Care of Extremely Low Birth Weight Neonate (C-ELBW), or Neonatal Neuro-Intensive Care (C-NNIC) (F4c)	
Offering lactation support by a IBCLC, CLC, or CBC certified individual 7 days a week	
(in person or via telemedicine) (F4.1)	1
Patient load per neonatologist (F5):	
• 1 point for ≥ 18	2
• 2 points for < 18	
* Parenthetical references indicate related survey questions (c	ontinued)

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Neonatology* (83 points) continued	Points
Patient load per Licensed independent contractor (in-house attending, fellow, resident or advanced practice provider) on the night shift (F5.1):  1 point for ≥ 15 2 points for < 15	2
<ul> <li>Providing the following elements of a "Safe Sleep" program (F8.1):</li> <li>Mandatory Safe Sleep Education for NICU staff</li> <li>Policy in place to prohibit use of devices while sleeping (swings, infant seats, etc.)</li> <li>Safe Sleep policy includes a minimum length of time prior to discharge to implement safe sleep practices if no contraindications exist</li> <li>Safe Sleep policy indicates that infants greater than 32 weeks post-conceptual gestational age should be placed in supine position if no contraindications exist</li> </ul>	4
Engaging in Safe Sleep auditing to ensure that patient sleep environment and position is appropriate for safe sleep practice (F8.2)	1
Monitoring compliance with NICU-based Safe Sleep policy at least weekly or at least biweekly (F8.3)	1
Offering a dedicated area within the facility for milk and formula preparation (F10.2)	1
<ul> <li>Offering the following for nutrition and breastfeeding (F10.3):</li> <li>NICU-specific breast milk committee that meets at least 11 times per calendar year</li> <li>Process to facilitate obtaining a breast pump (within 48 hours of identified need) for home use</li> <li>Donor breast milk program with written institution-specific criteria for the initiation and discontinuation of donor breast milk</li> <li>Formal process for teaching feeding preparation upon discharge</li> </ul>	4
<ul> <li>Employing the following risk-reduction practices (F10.4):</li> <li>Bar coding system for correct breast milk identification</li> <li>Dedicated breast milk technician who prepares milk for proper identification and distribution</li> </ul>	2
Tracking breast milk administration error rate (F10.5)	1
Requiring a neonatologist to co-manage care for all surgical patients in the NICU (F16.1)	1
Having at least 75% of anesthesiologists with board-certification or are board-eligible in pediatric anesthesia (F16.2)	1
Providing a percutaneous intravenous central catheter (PICC) team with specialized training to place and maintain PICC lines in NICU patients (F20)	1
Availability of PICC line placement services (F20.1):  1 point for day shift 2 points for 24/7 coverage	2
Mandating that core NICU staff participate in the following training protocols at least once every 2 years (F22):  Neonatal unplanned code response Arrhythmia treatment including use of defibrillator Simulation of emergency evacuation of the NICU ECMO emergency simulation training Exchange transfusion simulation or just in time training Other training (F22.1)	6

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Neonatology* (83 points) continued	Points
Having at least 75% of neonatal fellows and advanced practice providers complete	
training in the following procedure protocols (F23.1):	2
Chest tube placement	2
Intubation	
Having at least 75% of current attending physicians in the Level IV NICU who have completed simulation training to refresh their skills with each of the following procedures (F23.2):  Chest tube placement Pericardiocentesis Abdominal paracentesis Double volume exchange transfusion	6
Cardioversion	
Intraosseous line placement	
Tracking patients' first postoperative temperatures and using it as a quality metric (F31)	1
Tracking unintended extubation of NICU patients (F32)	1
Frequency of quality review process (F32.2):	
1 point for a retrospective multidisciplinary review weekly or monthly	2
1 point for a Standardized mini-root cause analysis review within 12 hours	
Conducting multidisciplinary review of all unplanned readmissions to determine	-
whether preventable (F33/F33.1)	1
Having a formal program for reviewing neonatal transfer cases received from other hospitals that includes a formal feedback mechanism (e.g., an after-action report or conference) to the referring facility (F33.2/F33.3)	1
Providing the following for very low birthweight and low gestational age infants (F34):	
<ul> <li>Starter protein solution available on day of admission</li> <li>Very low birthweight feeding protocol</li> <li>"Kangaroo care" routinely provided for infants receiving mechanical ventilation</li> <li>Dedicated team of bedside RNs with additional training in the care of preterm infants that care for VLBW infants in your NICU</li> <li>Respiratory support weaning protocol</li> </ul>	5
Having or being associated with a fetal diagnosis and counseling program either onsite or at another facility (F34.1)	1
Including a Neonatology provider in prenatal consultations when the expected postnatal patient management plan will require care in the Level IV NICU (F34.2)	1
Holding multidisciplinary patient management conferences to discuss plans for the delivery and early NICU management of fetuses with congenital abnormalities (F34.3):  2 points for meeting at least weekly or at least monthly  1 point for meeting less frequently than monthly	2
Offering family meetings or counseling that includes genetic counselors and relevant specialists when fetuses are expected to require care in the Level IV NICU (F34.4)	1
Offering fetal MRI for assessment of fetal anomalies (F34.5)	1
Having a medication error reporting system/database (F35)	1
	continued)

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Neonatology* (83 points) continued	Points
<ul> <li>Offering the following to evaluate and reduce medication errors (F35.1):</li> <li>NICU-specific multidisciplinary committee, including a residency trained NICU-dedicated clinical pharmacist available for consultation 24 hours a day/7 days a week</li> <li>Access to an up-to-date electronic version of a neonatal-specific drug information reference, which includes the ability to check IV compatibility</li> </ul>	4
<ul> <li>Utilize medication administration technology including barcode administration and smart pumps with a dedicated neonatal drug library or pump integration (interoperability between epic and the CareFusion pumps)</li> <li>Formalized process for discharge medication counseling</li> <li>Nephrology* (68 points)</li> </ul>	Points
	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric interventional radiologists that spent $\geq$ 0.5 FTE doing pediatric interventional radiology (A4.1)	1
<ul> <li>Offering the following to reduce radiation exposure to patients and staff (A10.1):</li> <li>Provide a designated medical director of radiology to oversee quality and safe practices</li> <li>Iterative reconstruction software on all CT scanners</li> <li>MRI safety program compliant with ACR guidelines</li> <li>Participation in the ACR CT dose index registry OR use of dose monitoring software for tracking pediatric patients undergoing CT scans</li> <li>Dedicated MRI Safety Officer</li> </ul>	5
<ul> <li>Maintaining the following certifications (A10.3):</li> <li>Accreditation in CT imaging from ACR</li> <li>Accreditation in nuclear medicine from ACR or IAC</li> <li>All sonographers have an ultrasound certificate from ARDMS and ARRT</li> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> <li>Program accreditation in ultrasound from ACR or AIUM</li> <li>Accreditation in MRI from ACR</li> </ul>	6
<ul> <li>Having the following specialists (A10.4):</li> <li>At least one board-certified Medical Physicist</li> <li>At least 75% of Radiologic Technologists are accredited by ARRT</li> </ul>	2
Having patients undergoing imaging studies (e.g., MRI, CT, or voiding cystourethrogram scans) provided access to a certified child life specialist (A10.5)	1
<ul> <li>Engaging in activities designed to ensure high reliability (A39):</li> <li>All clinical staff are trained in code response using simulations or other team training</li> <li>Team training includes clear instructions and demonstration of roles and lines of communication</li> <li>Team training is videotaped to allow review of performance and needs for improvement</li> <li>Team training includes critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>All team training ends with development of an action plan to address problems identified during the training or simulation</li> </ul>	5

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Nephrology* (68 points) continued	Points
Percentage of school-age pediatric dialysis patients enrolled in a school or vocational rehabilitation program (G10):  1 point for ≥ 50% & < 75%  2 points for ≥ 75%	2
Percentage of native kidney biopsies performed by a pediatric nephrologist, pediatric nephrology fellow, pediatric interventional radiologist, or pediatric interventional radiology fellow using real-time ultrasound or ultrasound guidance (G14.1)  1 point for ≥ 50% & < 90% 2 points for ≥ 90%	2
Have access to an interventional radiologist to perform image-guided renal biopsies, nephrostomies, and AV fistula/graft management (G16.1)	1
<ul> <li>Implement the following bundles from the SCOPE collaborative</li> <li>HD patient management (G36a)</li> <li>PD patient management (G36b)</li> </ul>	2
Participating in regular interdisciplinary clinical conferences to review and coordinate the care of patients in the following specialties (G17):  • Urology/uroradiology  • Renal pathology  • Rheumatology  • Fetal health	4
<ul> <li>Providing the following services in support of the pediatric dialysis unit (G19):</li> <li>Designated medical director board-certified in pediatric nephrology with a dedicated 0.25 or more FTE support for this position</li> <li>Quality Assurance Performance Improvement activities reviewed independently from the adult dialysis service</li> <li>Pediatric maintenance dialysis patients receive treatment in a unit independent from adult patients</li> <li>Dedicated nursing staff with formal training in pediatric dialysis</li> <li>At-home maintenance hemodialysis program for adolescents (maintained more than 3 months consecutively at home) that is either standalone or conducted in conjunction with an adult program</li> <li>At-home maintenance peritoneal dialysis program</li> </ul>	6
<ul> <li>Availability and prescription of therapeutic plasma exchange to patients (G19.1):</li> <li>Available and managed by a team that includes Pediatric Nephrology (2 points)</li> <li>Available but NOT managed by a team that includes Pediatric Nephrology (1 point)</li> </ul>	2
Availability of American Board of Preventive Medicine (ABPM) to patients and report generated (G19.2):  • Available and report generated by Pediatric Nephrology (2 points)  • Available but report NOT generated by Pediatric Nephrology (1 point)	2
<ul> <li>Ratio of accesses received in the last 2 years per patient for permanent hemodialysis vascular central venous catheters placed in children &lt; 5 years of age (G22a):</li> <li>1 point for &gt; 1.5 &amp; ≤ 4 accesses per patient</li> <li>2 points ≥ 1 &amp; ≤ 1.5 accesses per patient</li> </ul>	2
Ratio of accesses received in the last 2 years per patient for permanent hemodialysis vascular central venous catheters placed in children, 5-17 years of age (G22b):  1 point for > 1.5 & ≤ 4 accesses per patient  2 points ≥ 1 & ≤ 1.5 accesses per patient	2

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Nephrology* (68 points) continued	Points
Ratio of accesses received in the last 2 years per patient for hemodialysis AV fistula/graft access placements in children, 10-17 years of age on maintenance dialysis (G22c):  1 point for > 1.25 & ≤ 4 accesses per patient	2
<ul> <li>2 points for ≥ 1 &amp; ≤ 1.25 accesses per patient</li> <li>Ratio of accesses received in the last 2 years per patient for peritoneal dialysis catheters placed in children &lt; 5 (G22d):</li> <li>1 point for &gt; 1.25 &amp; ≤ 4 accesses per patient</li> <li>2 points for ≥ 1 &amp; ≤ 1.25 accesses per patient</li> </ul>	2
Ratio of catheters placed in the last 2 years per patient for peritoneal dialysis catheters placed in children and adolescents, 5-17 (G22e):  1 point for > 1.25 & ≤ 4 catheters per patient  2 points for ≥ 1 & ≤ 1.25 catheters per patient	2
Offering a formal transition program for kidney transplant patients from pediatric to adult care when needed (G25)	1
Offering a formal transition program for dialysis patients into adult care when needed (G26)	1
Percentage of percutaneous kidney biopsies performed by a pediatric nephrologist, pediatric nephrology fellow, pediatric interventional radiologist, or pediatric interventional radiology fellow using real-time ultrasound or ultrasound guidance in 2022 (G27.1)  1 point for ≥ 50% & < 90% 2 points for ≥ 90%	2
Percentage of percutaneous kidney biopsies performed by a pediatric nephrologist, pediatric nephrology fellow, pediatric interventional radiologist, or pediatric interventional radiology fellow using real-time ultrasound or ultrasound guidance in 2023 (G27.1)  1 point for ≥ 50% & < 90% 2 points for ≥ 90%	2
Percentage of living donor nephrectomies conducted via laparoscopic procedure (G29):  1 point for 70-79%  2 points for 80-89%  3 points for ≥ 90%	3
Percentage of kidney transplant patients <18 years of age that were preemptive (G31):  1 point for 10-20%  2 points for 21-30%  3 points for >30%	3
Offering the following programs to support pediatric patients undergoing kidney transplant (G33):  • Quality of life assessment  • Child life program for kidney transplant patients  • Transplant pharmacist	3
Maintaining a database of current kidney transplant patients with clinical data to allow for quality assessment and improvement of care (G38)	1
More than 50% of patients with primary hypertension first seen in the last 2 calendar years that receive nutritional counseling from a dietitian (G41)	1
Parenthetical references indicate related survey questions (c	ontinuec

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Neurology & Neurosurgery* (53 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric	
interventional radiologists that spent $\geq 0.5$ FTE doing pediatric interventional	1
radiology (A4.1)	
Offering the following to reduce radiation exposure to patients and staff (A10.1):	
Provide a designated medical director of radiology to oversee quality and safe	
practices	
Iterative reconstruction software on all CT scanners	5
MRI safety program compliant with ACR guidelines	
Participation in the ACR CT dose index registry OR use of dose monitoring	
software for tracking pediatric patients undergoing CT scans	
Dedicated MRI Safety Officer	
Maintaining the following certifications (A10.3):	
Accreditation in CT imaging from ACR	
Accreditation in nuclear medicine from ACR or IAC	
All sonographers have an ultrasound certificate from ARDMS and ARRT	6
<ul> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> </ul>	
Program accreditation in ultrasound from ACR or AIUM	
Accreditation in MRI from ACR	
Having the following specialists (A10.4)	
At least one board certified Medical Physicist	2
At least 75% of Radiologic Technologists are accredited by ARRT	
Having patients undergoing imaging studies (e.g., MRI, CT or voiding	1
cystourethrogram scans) provided access to a certified child life specialist (A10.5)	1
Engaging in activities designed to ensure high reliability (A39/A39.1):	
All clinical staff are trained in code response using simulations or other team training	
Team training includes clear instructions and demonstration of roles and lines of communication	
Team training is videotaped to allow review of performance and needs for improvement	5
Team training includes critical event debriefing or team discussions that focus on	ļ
identifying what worked well and where improvement is needed	
All team training ends with development of an action plan to address problems	
identified during the training or simulation	
Having at least 50% of patients with epilepsy who received a surgical resection or	
laser ablation have intraoperative electrocorticography and/or extraoperative	1
monitoring (H8 and H8.1)	
Having $\geq$ 75% of EEG tests incorporated into the patient's medical chart within	
designated timeframes (H10):	
Standard EEG medical evaluations interpreted and recorded within 24 hours of	2
being conducted	_
Long-term video EEG (vEEG) evaluations interpreted and recorded within 24	
hours from completion of the study	

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Neurology & Neurosurgery* (53 points) continued	Points
Having neuropsychological evaluations performed by a neuropsychologist at the center in the last calendar year for surgical patients with the following diagnoses (H15e, H15h):  Congenital heart disease postoperative  Headache and pain management	2
Having neuropsychological evaluations performed by a neuropsychologist at the center in the last calendar year for surgical patients (2 points for 8+ patients, 1 points for 1-7 patients) with the following diagnoses (H15a-d, H15f-g):  • Brain tumors  • Traumatic brain injury/concussion postoperative  • Medically intractable epilepsy postoperative  • Craniofacial disorders postoperative  • Stroke  • Demyelinating diseases	12
Participating in at least one national or international program that include a focus on outcome measures specific to neurology and neurosurgery (H19):  Pediatric Cerebrovascular Disease and Neurocritical Care Pediatric Epilepsy Pediatric Neuro-Oncology Neuromuscular and Movement Disorders Congenital and Developmental Disorders Neuroimmunology and Neuroinflammatory Disorders Narcolepsy and Rare Pediatric Neurological Disorders	7
Participating in community outreach programs to improve health in the community (H20.1)	1
<ul> <li>Engaging in the following activities (H22):</li> <li>Maintaining a surgical mortality database</li> <li>Holding regular mortality and morbidity conferences</li> </ul>	2
Providing patient care in underserved areas, either on-site or with a Telehealth visit, outside of the main catchment area of your hospital (H35)	1
<ul> <li>Having a formal plan to transition patients from pediatric to adult care that is:</li> <li>Routinely established and communicated (H36)</li> <li>Tracked for compliance for every patient over age 14 and document the plan in the medical record (H37)</li> </ul>	2
Designated as a Pediatric Level 1 or 2 Trauma Center by the American College of Surgeons (H38)	1
<ul> <li>Tracking and reporting patient experience:</li> <li>Tracking and reviewing patient experience enterprise wide (H39)</li> <li>Providing feedback to providers regarding patient experience (H40)</li> </ul>	2
Orthopedics* (80 points)	Points
Having at least 50% of the following staff who work in or directly support the Pediatric Orthopedic program be members of the Pediatric Orthopedic program or the Pediatric Orthopedic Society of North America (POSNA) (I3.2)  • Nurse practitioners  • Physicians assistants	2
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric interventional radiologists that spent $\geq 0.5$ FTE doing pediatric interventional radiology (A4.1)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Orthopedics* (80 points) continued	Points
Offering the following to reduce radiation exposure to patients and staff (A10.1):	
Provide a designated medical director of radiology to oversee quality and safe	
practices	
Iterative reconstruction software on all CT scanners	5
MRI safety program compliant with ACR guidelines	,
<ul> <li>Participation in the ACR CT dose index registry OR use of dose monitoring</li> </ul>	
software for tracking pediatric patients undergoing CT scans	
Dedicated MRI Safety Officer	
Being an active participant in the POSNA Safe Surgery Program (PSSP) (I5.1)	1
Maintaining the following certifications (A10.3):	
Accreditation in CT imaging from ACR	
Accreditation in nuclear medicine from ACR or IAC	
All sonographers have an ultrasound certificate from ARDMS and ARRT	6
One or more pediatric sonographers have a pediatric ultrasound certificate from	
ARDMS	
Program accreditation in ultrasound from ACR or AIUM  Accreditation in MRI from ACR.	
Accreditation in MRI from ACR      Having the following and significant (A10.4):	
Having the following specialists (A10.4):	2
<ul> <li>At least one board certified Medical Physicist</li> <li>At least 75% of Radiologic Technologists are accredited by ARRT</li> </ul>	2
Having patients undergoing imaging studies (e.g., MRI, CT or voiding	
cystourethrogram scans) provided access to a certified child life specialist (A10.5)	1
Engaging in activities designed to ensure high reliability (A39):	
All clinical staff are trained in code response using simulations or other team	
trainings	
Team training includes clear instructions and demonstration of roles and lines of	
communication	
Team training is videotaped to allow review of performance and needs for	5
improvement	
Team training includes critical event debriefing or team discussions that focus on	
identifying what worked well and where improvement is needed	
All team training ends with development of an action plan to address problems	
identified during the training or simulation	
Percentage of nurse practitioners and physician assistants receiving pediatric	
orthopedic surgery-related continuing education credit or continuing medical credit (I3.1):	2
• 1 point for ≥50% & <75%	2
• 2 points for ≥75%	
Percentage of RNs receiving pediatric orthopedic surgery-related continuing education	
credit or continuing medical credit (I4.1a):	_
• 1 point for ≥50% & <75%	2
• 2 points for ≥75%	
Percentage of medical assistants receiving pediatric orthopedic surgery-related	
continuing education credit or continuing medical credit (I4.1b):	2
• 1 point for ≥50% & <75%	2
• 2 points for ≥75%	

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Orthopedics* (80 points) continued	Points
Number of pediatric orthopedic surgeons who are active or candidate members of the Pediatric Orthopedic Society of North America (I5):  1 point for 1-2 2 points for 3+	2
Having at least 75% of patient MRI and CT examinations (specifically non-neuro examinations) read by pediatric radiologists with musculoskeletal imaging expertise (I9.1)	1
<ul> <li>Providing pediatric imaging center with the following services (I10):</li> <li>Pediatric protocols to reduce radiation exposure</li> <li>Digitally stored test results, images, and medical records accessible from locations offsite or away from the hospital</li> <li>Intraoperative navigation system</li> <li>Low-dose, three-dimensional upright body imaging for evaluating idiopathic scoliosis</li> <li>Pediatric anesthesia services to support sedation and general anesthesia for imaging in very young children</li> <li>MR arthography</li> <li>Image guided thermal ablation of bone tumors</li> <li>Interventional radiology image guided bone biopsies</li> <li>Fast MRI protocols for obtaining a limited scan that can support shortening exam length or avoiding general anesthesia or sedation</li> </ul>	9
More than 75% of tumor boards attended by a pediatric (medical) oncologist (I17.1a)	1
More than 75% of tumor boards attended by an orthopedic (surgical) oncologist (I17.1b)	1
Having a designated inpatient trauma operating room that 100% guarantees orthopedics a "first case of the day start" (I28)	1
Having a policy in place that provides even greater operating room access based on periodic demand (I29)	1
Having a preoperative coordinated care review process led by a nursing coordinator that meets at least monthly to evaluate high-risk patients and prepare them for surgery and hospitalization (I30)	1
Having surgeons who treat sports injuries participate in a multicenter surgical performance programs (I33/I33.1)  • Sports Cohort Outcomes Registry (SCORE) program  • Another surgical performance program	1
Having access to at least 1 of the following types of anesthesiologists (I34):  • Pediatric anesthesiologist  • Pediatric spine anesthesiologist	1
Having at least 1 surgical correction for scoliosis case that was staffed by either a pediatric anesthesiologist or a pediatric spine anesthesiologist (I35)	1
Having at least 50% of pediatric spine anesthesiologists who were the anesthesiologist of record for 40 or more surgical corrections for scoliosis cases in the past 3 years (I35.1)	1
Percentage of surgical spine patients 8 or older completing a patient reported outcomes questionnaire (I36/I36.1):  1 point for ≥50% & <75% 2 points for ≥75%	2
·	ontinued)

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Orthopedics* (80 points) continued	Points
Percentage compliance with written checklists/guidelines for patients with prevention or treatment of neurological injury associated with surgery for idiopathic scoliosis (I37a):	2
<ul> <li>1 point for ≥70 &amp; &lt;85%</li> <li>2 points for ≥ 85%</li> </ul>	
Percentage compliance with written checklists/guidelines for patients with neurovascular injuries associated with supracondylar fractures or dislocation of the knee (I37b):  • 1 point for ≥70 & <85%  • 2 points for ≥ 85%	2
Percentage compliance with written checklists/guidelines for patients with spinal trauma resulting in acute spinal cord injury (I37c):  1 point for ≥70 & <85%  2 points for ≥ 85%	2
Having at least 1 in-service presentation or formal lecture to an RN audience (I39)	1
Establishing a professional relationship with one or more prosthetic/orthotics providers such that they attend clinic on a regular basis (I40)	1
Having a fixed surgery support team that are dedicated to working with pediatric orthopedic surgeons (I41)	1
Having exactly the same fixed surgery support team working together during normal working hours (I41.1):  4 points for > 75% of the time  1 point for 50%-75% of the time	4
Providing afterhours or weekend "on call" service for a fixed surgery support team (I42)	1
Having exactly the same fixed surgery support team working together after hours or on weekends (I42.1):  4 points for > 75% of the time  1 point for 50%-75% of the time	4
Rate of single event multilevel surgery patients who received a multimodal pain management (I46a/I45):  1 point for ≥ 75% & < 90%  2 points for ≥ 90%	2
Rate of single event multilevel surgery patients who received a postoperative assessment by anesthetic/pain team (I46b/I45):  1 point for ≥ 75% & < 90%  2 points for ≥ 90%	2
Hosting or being actively involved in organizing a cerebral palsy support group (I47)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Orthopedics* (80 points) continued	Points
<ul> <li>Having the following elements of a Narcotic Stewardship program (I48):</li> <li>A non-narcotic pathway in place for patients being admitted for orthopedic surgery</li> <li>"Right Size" opioid prescribing recommendations based on patient age and procedure for orthopedic surgical patients</li> <li>Narcotic safety education provided to families of orthopedic surgical patients with instructions on how to safely dispose of unused narcotics</li> <li>Plan to ensure tracking of potential pain medication seeking or opioid addition in orthopedic surgical patients</li> <li>A system to automatically limit the number of narcotic tablets prescribed to orthopedic surgical patients following treatment for supracondylar fracture of the</li> </ul>	5
humerus or isolated femoral shaft fractures	D. C. L.
Pulmonology & Lung Surgery* (52 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric interventional radiologists that spent $\geq$ 0.5 FTE doing pediatric interventional radiology (A4.1)	1
<ul> <li>Offering the following to reduce radiation exposure to patients and staff (A10.1):</li> <li>Provide a designated medical director of radiology to oversee quality and safe practices</li> <li>Iterative reconstruction software on all CT scanners</li> <li>MRI safety program compliant with ACR guidelines</li> <li>Participation in the ACR CT dose index registry OR use of dose monitoring software for tracking pediatric patients undergoing CT scans</li> <li>Dedicated MRI Safety Officer</li> </ul>	5
<ul> <li>Maintaining the following certifications (A10.3):</li> <li>Accreditation in CT imaging from ACR</li> <li>Accreditation in nuclear medicine from ACR or IAC</li> <li>All sonographers have an ultrasound certificate from ARDMS and ARRT</li> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> <li>Program accreditation in ultrasound from ACR or AIUM</li> <li>Accreditation in MRI from ACR</li> </ul>	6
<ul> <li>Having the following specialists (A10.4)</li> <li>At least one board-certified Medical Physicist</li> <li>At least 75% of Radiologic Technologists are accredited by ARRT</li> </ul>	2
Having patients undergoing imaging studies (e.g., MRI, CT, or voiding cystourethrogram scans) provided access to a certified child life specialist (A10.5)	1
<ul> <li>Engaging in activities designed to ensure high reliability (A39):</li> <li>All clinical staff are trained in code response using simulations or other team training</li> <li>Team training includes clear instructions and demonstration of roles and lines of communication</li> <li>Team training is videotaped to allow review of performance and needs for improvement</li> <li>Team training includes critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>All team training ends with development of an action plan to address problems identified during the training or simulation</li> </ul>	5

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Pulmonology & Lung Surgery* (52 points) continued	Points
Screening all pulmonology patients for tobacco smoke exposure and/or nicotine use	
and actively counsel or refer family members who use tobacco products, including e-	1
cigarettes or vaporizers (J6)	
Having access to a thorough onsite assessment of patients' home environment and	1
offer guidance for reducing exposures that contribute to asthma (J9)	
Participating in the creation, maintenance, or implementation of care pathways for the following conditions (J6.1):  Asthma exacerbations  Bronchiolitis  Croup  Cystic fibrosis  Uncomplicated pneumonia  Complicated pneumonia  Initiation of tracheostomy of home ventilator support  Tracheostomy or ventilator-dependent patients  Pneumothorax care pathway  Acute chest syndrome  Spinal fusion care pathways, including evaluation and management of potential pulmonary risks  High flow nasal cannula therapy  Brief resolved unexplained event (BRUE, formerly apparent life-threatening event or ALTE)  Other care pathways including airway emergencies such as foreign body, epiglottitis/tracheitis, or inhalation injury	14
Having a formal plan to actively transition CF patients from pediatric care to adult care (J25)	1
Provide onsite access to bronchial artery embolization for CF patients provided by pediatric specialists (J25.1)	1
Having a pediatric sleep disorders clinic that addresses the needs of patients with ventilation or other sleep disorders and manages the patient's positive airway pressure (J38)	1
Having multidisciplinary care team to coordinate the care of long-term ventilator-dependent patients with the following members (J42):  ENT or critical care physician  Pulmonologist  Physiatrist  Respiratory therapist  Social worker  Dietitian	6
Participating in formal programs for the outpatient management of pediatric patients with the following conditions (J50):  Sickle cell anemia Aerodigestive disorders Craniofacial disorders Pulmonary hypertension Connective tissue diseases	5

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Pulmonology & Lung Surgery* (52 points) continued	Points
Being accredited by the Pulmonary Hypertension Association as a Pediatric Center of Comprehensive Care (CCC) (J50.1)	1
Having a protocol for preparing and assisting in the transition of patients from pediatric to adult pulmonology (J53)	1
Urology* (41 points)	Points
Having at least 2.0 FTE pediatric interventional radiologists or at least 2 pediatric	
interventional radiologists that spent $\geq 0.5$ FTE doing pediatric interventional radiology (A4.1)	1
<ul> <li>Offering the following to reduce radiation exposure to patients and staff (A10.1):</li> <li>Provide a designated medical director of radiology to oversee quality and safe practices</li> <li>Iterative reconstruction software on all CT scanners</li> <li>MRI safety program compliant with ACR</li> <li>Participation in the ACR CT dose index registry OR use of dose monitoring software for tracking pediatric patients undergoing CT scans</li> <li>Dedicated MRI Safety Officer</li> </ul>	5
<ul> <li>Maintaining the following certifications (A10.3):</li> <li>Accreditation in CT imaging from ACR</li> <li>Accreditation in nuclear medicine from ACR or IAC</li> <li>All sonographers have an ultrasound certificate from ARDMS and ARRT</li> <li>One or more pediatric sonographers have a pediatric ultrasound certificate from ARDMS</li> <li>Program accreditation in ultrasound from ACR or AIUM</li> <li>Accreditation in MRI from ACR</li> </ul>	6
Having the following specialists (A10.4):  • At least one board-certified Medical Physicist  • At least 75% of Padialogic Technologists are assembled by ARRT	2
At least 75% of Radiologic Technologists are accredited by ARRT  Having patients undergoing imaging studies (e.g., MRI, CT, or voiding  protourether are a considered assess to a contified child life angulation (A10 F).	1
<ul> <li>cystourethrogram scans) provided access to a certified child life specialist (A10.5)</li> <li>Engaging in activities designed to ensure high reliability (A39):</li> <li>All clinical staff are trained in code response using simulations or other team training</li> <li>Team training includes clear instructions and demonstration of roles and lines of communication</li> <li>Team training is videotaped to allow review of performance and needs for improvement</li> <li>Team training includes critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>All team training ends with development of action plan to address problems identified during the training or simulation</li> <li>Having regular morbidity and mortality conferences to discuss pediatric urology patients (K6a)</li> <li>Having regular case conferences to discuss surgical management of complex cases</li> </ul>	5
(K6b)  Having regular multispecialty case review and/or process review conferences for all	1
surgical services (K6c)  * Parenthetical references indicate related survey questions (c	ontinued)

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Urology* (41 points) continued	Points
<ul> <li>Having the following elements of a Narcotic Stewardship program (K10.2):</li> <li>A non-narcotic pathway in place for patients being admitted for genitourinary (GU) surgery</li> <li>"Right Size" opioid prescribing recommendations based on patient age and procedure</li> <li>Narcotic safety education provided to families with instructions on how to safely dispose of unused narcotics</li> <li>Plan to ensure tracking of potential pain medication seeking or opioid addition patients</li> </ul>	4
<ul> <li>Monitoring reconstructive procedure for incontinence or hostile bladder for the following operative complications (K13.1):</li> <li>Monitor the renal function of patients with reconstructed GU tracts with eGFR at least once during the 12-month reporting period</li> <li>Hydronephrosis based on ultrasound or nuclear medicine testing</li> <li>Continence</li> <li>Stomal complications</li> <li>Offering satellite outpatient clinics for elective care (K21):</li> <li>1 point for &lt; 1 day a month or Never, or 1-3 days a month</li> </ul>	4
<ul> <li>2 points for 4 days a month or more</li> <li>Having the following protocols in place (K22):</li> <li>Protocol for teaching home intermittent catheterization</li> <li>Radiation reduction/safety protocols for urology patients (e.g., retrograde pyelogram protocol, ureteroscopy protocol)</li> <li>Standardized clinical pathway for children presenting with acute stone pain to the ED</li> <li>Standardized clinical pathway for postoperative patients</li> <li>Educational materials for patients and families on urological conditions that are updated on a regular basis</li> <li>Child life specialists for perioperative care in the operating room and for office procedures</li> <li>Sedation services for VCUG/noxious procedures</li> </ul>	7
Following an Enhanced Recovery After Surgery (ERAS) protocol which includes anesthesia and pain management protocols for complex reconstructive procedures (K25)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Behavioral Health* (108 points)	Points
Having access to the following onsite (2 points) or via a partnership (1 point) L6:  Behavioral health consultation assessment or treatment available in the ED 24/7  Consultative liaison service providing assessment and treatment to patients being treated in inpatient programs outside of behavioral health  Consultative liaison service providing assessment and treatment to patients being treated in outpatient programs outside of behavioral health  Evidence-based psychotherapy or behavior therapy treatment behavioral health conditions  Medication management for behavioral health conditions  Designated inpatient psychiatric unit  Care coordinators/case managers (RNs, social workers, etc.) for patients receiving behavioral healthcare  Satellite and/or community clinics to improve access to behavioral healthcare  School intervention program with providers embedded in one or more school(s) or available at least weekly for consultation/training with patients, families, and teachers  Partial day hospitalization and/or intensive outpatient program  Residential program for patients requiring long-term care  Multilingual behavioral health providers who can provide diagnostic and treatment services to those whose first language is not English  Access to behavioral health provider consultation support for primary care providers  Behavioral health urgent care  Evening/weekend hours for behavioral health services  Intensive community and Home-based therapy or ABA/Intensive Behavioral Intervention for Autism Spectrum Disorders  Crisis stabilization services in subspecialty or primary care  Wrap-around services in subspecialty or primary care	38
Subspecialties available from the hospital's Pediatric and Adolescent Behavioral Health Program to support emergent care needs within inpatient (1 point) and outpatient (1 point) programs (L8):  Psychiatrist Clinical psychologist Developmental behavioral pediatrician or neurodevelopmental disabilities physician Adolescent medicine physician	8

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

Behavioral Health* (108 points) continued	Points
Routine practices or workflows to address the risk of suicide in patients receiving	
care. Hospitals received 2 points for providing for most patients (>75%) or 1 point	
for providing for some patients (50%-75%) in the following areas (L15):	
• In the ED (not a psychiatric ED), utilize a standardized tool to screen for risk of	;
suicide as part of suicide prevention (e.g., ASQ, Columbia, or other)	
• In inpatient behavioral healthcare, utilize a standardized tool to screen for risk	of
suicide as part of suicide prevention (e.g., ASQ, Columbia, or other)	
• In inpatient medical care (not behavioral health), utilize a standardized tool to	
screen for risk of suicide as part of suicide prevention (e.g., ASQ, Columbia, or	
<ul><li>other)</li><li>In outpatient (ambulatory) behavioral healthcare, utilize a standardized tool to</li></ul>	
• In outpatient (ambulatory) behavioral healthcare, utilize a standardized tool to screen for risk of suicide as part of suicide prevention (e.g., ASQ, Columbia, or	
other)	
<ul> <li>In outpatient (ambulatory primary and specialty) medical care (not behavioral</li> </ul>	18
health), utilize a standardized tool to screen for risk of suicide as part of suicide	
prevention (e.g., ASQ, Columbia, or other)	
<ul> <li>In inpatient behavioral healthcare, a structured safety plan is routinely develop</li> </ul>	ed
by providers with patients identified as having a significant risk of suicide	
• In inpatient medical care (not behavioral health), a structured safety plan is	
routinely developed by providers with patients identified as having a significant	
risk of suicide	
• In outpatient (ambulatory) behavioral healthcare, a structured safety plan is	
routinely developed by providers with patients identified as having a significant	
risk of suicide	
In outpatient (ambulatory) medical care (not behavioral health), a structured	
safety plan is routinely developed by providers with patients identified as havin	g a
significant risk of suicide	
Prevention screening using standardized instruments and/or clinical interviews in inpatient care (1 point) and outpatient care (1 point) for the following behavioral	
health concerns (L16):	
Parental depression or history of behavioral health conditions	
Depression in all patients 12 years and older	
Autism spectrum disorders in children	
Developmental delay in children	18
Substance use in patients >12 years of age	
General screening for behavioral health problems yearly	
Anxiety disorders	
Firearm safety and gun violence screening	
Trauma/Adverse childhood experiences (ACEs)	
Location and time limits for Psychiatric Boarders (L23.4):	
In the ED, with specific time limits	1
In the ED, without specific time limits	1
Moved to an inpatient medical unit	
At least quarterly mortality and morbidity review, including safety rounds, systems	;
error meetings, clinical competence conferences or some other equivalent meeting	s
in the following areas (L24):	
Child and Adolescent Psychiatry	4
Child and Adolescent Psychology or Neuropsychology	
Developmental Behavioral Pediatrics or Neurodevelopmental Disabilities	
Adolescent Medicine	

<sup>\*</sup> Parenthetical references indicate related survey questions.

**Table 9. Commitment to Best Practices by Specialty** 

(L28):  A policy of reviewing possible behavioral interventions prior to prescribing antipsychotics (2pts)  No policy, but frequently review possible behavioral interventions prior to prescribing antipsychotics (1pt)  Measurement-based care practices followed by the program (L30):  Using standardized patient - or parent-reported outcomes evaluate patients in treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7, PedsQL, PHQ-9, PSC, SDQ, Vanderbilt, YOQ)  One or more of the standardized patient - or parent-reported outcomes described above are available for online completion and submission  Set benchmarks for progress across key patient - or parent-reported outcomes to evaluate progress in treatment  Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes  Engaging in activities to evaluate and mitigate staff injuries (L32):  Setting targets for reducing staff injuries  Tracking injuries experienced by staff in the delivery of care to patients  Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (2 points)  In some primary care settings (2 points)  In some medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activit	Behavioral Health* (108 points) continued	Points
antipsychotics (2pts) No policy, but frequently review possible behavioral interventions prior to prescribing antipsychotics (1pt)  Measurement-based care practices followed by the program (L30): Using standardized patient- or parent-reported outcomes evaluate patients in treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7, PedsQL, PHQ-9, PSC, SDQ, Vanderbilt, YQQ) One or more of the standardized patient- or parent-reported outcomes described above are available for online completion and submission Set benchmarks for progress across key patient- or parent-reported outcomes to Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes susing standardized patient- or parent-reported outcomes Engaging in activities to evaluate and mitigate staff injuries (L32): Setting targets for reducing staff injuries Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37) Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): In some primary care settings (1 point) Having or participating in an integrated behavioral health services in medical subspecialties/subspecialties (2 points) In some primary care settings (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear	Behavioral interventions as treatment prior to prescribing antipsychotic medications (L28):	
antipsychotics (2Pts) No policy, but frequently review possible behavioral interventions prior to prescribing antipsychotics (1pt) Measurement-based care practices followed by the program (L30): Using standardized patient- or parent-reported outcomes evaluate patients in treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7, PedsQL, PHQ-9, PSC, SDQ, Vanderbilt, YOQ) One or more of the standardized patient- or parent-reported outcomes described above are available for online completion and submission Set benchmarks for progress across key patient- or parent-reported outcomes Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes Engaging in activities to evaluate and mitigate staff injuries (L32): Setting targets for reducing staff injuries Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37) Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): In some primary care settings (2 points) In some primary care settings (2 points) In some primary care settings (2 points) In some primary care settings (1 point) Having or participating in an integrated behavioral health services in medical specialties/subspecialties (2 points) In some primary care settings (1 point) Having or patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of		2
Measurement-based care practices followed by the program (L30):  Using standardized patient- or parent-reported outcomes evaluate patients in treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7, PedsQL, PHQ-9, PSC, SDQ, Vanderbilt, YOQ)  One or more of the standardized patient- or parent-reported outcomes described above are available for online completion and submission  Set benchmarks for progress across key patient- or parent-reported outcomes  Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes  Engaging in activities to evaluate and mitigate staff injuries (L32):  Setting targets for reducing staff injuries  Tracking injuries experienced by staff in the delivery of care to patients  Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In some primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In some primary care settings (2 points)  In some primary care settings (2 points)  In some primary care settings (2 points)  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings		_
Measurement-based care practices followed by the program (L30):  Using standardized patient- or parent-reported outcomes evaluate patients in treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7, PedsQL, PHQ-9, PSC, SDQ, Vanderbilt, YOQ)  One or more of the standardized patient- or parent-reported outcomes described above are available for online completion and submission  Set benchmarks for progress across key patient- or parent-reported outcomes  Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes  Engaging in activities to evaluate and mitigate staff injuries (L32):  Setting targets for reducing staff injuries  Tracking injuries experienced by staff in the delivery of care to patients  Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings are vide		
Using standardized patient- or parent-reported outcomes evaluate patients in treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7, PedsQL, PHQ-9, PSC, SDQ, Vanderbilt, YQQ) One or more of the standardized patient- or parent-reported outcomes described above are available for online completion and submission Set benchmarks for progress across key patient- or parent-reported outcomes Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes Engaging in activities to evaluate and mitigate staff injuries (L32): Setting targets for reducing staff injuries Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37) Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care settings (2 points) In all primary care settings (2 points) In some primary care settings (1 point) Having or participating in an integrated behavioral health services in medical subspecialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point) Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings are videotaped to allow for review of performance and needs for improvement Trainings are videotaped to allow for review of performance and needs for improvement Trainings are videotaped to allow for revie		
treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7, PedsQL, PHQ-9, PSC, SDQ, Vanderbilk, YOQ)  One or more of the standardized patient- or parent-reported outcomes described above are available for online completion and submission  Set benchmarks for progress across key patient- or parent-reported outcomes to Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes Engaging in activities to evaluate and mitigate staff injuries (L32):  Setting targets for reducing staff injuries  Tracking injuries experienced by staff in the delivery of care to patients  Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (2 points)  In some medical specialties/subspecialties (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings are videotaped to allow for review of performance and needs for	. , , , , , , , , , , , , , , , , , , ,	
above are available for online completion and submission  Set benchmarks for progress across key patient- or parent-reported outcomes Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment  Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes  Engaging in activities to evaluate and mitigate staff injuries (L32): Setting targets for reducing staff injuries Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): In some primary care settings (2 points) In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40): In all medical specialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of roles and lines of communication Trainings are videotaped to allow for review of performance and needs for improvement Trainings are videotaped to allow for review of performance and needs for improvement Trainings are videotaped to allow for review of performance in needed	treatment (e.g., ABAS, BDI, BYI, BASC, BERS, CDI, CBCL, CHQ, CSI, GAD-7,	
Set benchmarks for progress across key patient- or parent-reported outcomes Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes Engaging in activities to evaluate and mitigate staff injuries (L32): Setting targets for reducing staff injuries Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37) Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): In all primary care settings (2 points) In some primary care settings (1 point) Having or participating in an integrated behavioral health services in medical subspecialty care (L40): In all medical specialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point) Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of roles and lines of communication Trainings are videotaped to allow for review of performance and needs for improvement Trainings are videotaped to allow for review of performance and needs for improvement Trainings are videotaped to allow for review of performance and needs for improvement of an action plan to address problems		
<ul> <li>Utilizing scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment</li> <li>Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment</li> <li>Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes</li> <li>Engaging in activities to evaluate and mitigate staff injuries (L32):</li> <li>Setting targets for reducing staff injuries</li> <li>Tracking injuries experienced by staff in the delivery of care to patients</li> <li>Reviewing performance on set targets for reducing staff injuries with hospital leadership</li> <li>Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)</li> <li>Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):         <ul> <li>In all primary care settings (2 points)</li> <li>In some primary care settings (1 point)</li> </ul> </li> <li>Having or participating in an integrated behavioral health services in medical subspecialty care (L40):         <ul> <li>In all medical specialties/subspecialties (2 points)</li> <li>In some medical specialties/subspecialties (1 point)</li> </ul> </li> <li>Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):         <ul> <li>All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings</li> <li>Trainings include clear instructions and demonstration of roles and lines of communication</li> <li>Trainings are videotaped to allow for review of performance and needs for improvement</li> <li>Trainings end with the development</li></ul></li></ul>		
evaluate progress in treatment  Displaying summary scores from standardized patient- or parent-reported outcomes to evaluate progress in treatment Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes Engaging in activities to evaluate and mitigate staff injuries (L32): Setting targets for reducing staff injuries Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37) Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): In all primary care settings (2 points) In some primary care settings (1 point) Having or participating in an integrated behavioral health services in medical subspecialty care (L40): In all medical specialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of roles and lines of communication Trainings are videotaped to allow for review of performance and needs for improvement Trainings are videotaped to allow for review of performance and needs for improvement Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed Trainings end with the development of an action plan to address problems		6
outcomes to evaluate progress in treatment Ongoing quality improvement efforts to evaluation the program and providers using standardized patient- or parent-reported outcomes Engaging in activities to evaluate and mitigate staff injuries (L32): Setting targets for reducing staff injuries Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37) Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): In all primary care settings (2 points) In some primary care settings (1 point) Having or participating in an integrated behavioral health services in medical subspecialty care (L40): In all medical specialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of roles and lines of communication Trainings are videotaped to allow for review of performance and needs for improvement Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed Trainings end with the development of an action plan to address problems	evaluate progress in treatment	
using standardized patient- or parent-reported outcomes  Engaging in activities to evaluate and mitigate staff injuries (L32):  Setting targets for reducing staff injuries  Tracking injuries experienced by staff in the delivery of care to patients  Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In some primary care settings (2 points)  In some medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		
• Setting targets for reducing staff injuries • Tracking injuries experienced by staff in the delivery of care to patients • Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): • In all primary care settings (2 points) • In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40): • In all medical specialties/subspecialties (2 points) • In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): • All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings • Trainings include clear instructions and demonstration of roles and lines of communication • Trainings are videotaped to allow for review of performance and needs for improvement • Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed • Trainings end with the development of an action plan to address problems		
Tracking injuries experienced by staff in the delivery of care to patients Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39): In all primary care settings (2 points) In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40): In all medical specialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of roles and lines of communication Trainings are videotaped to allow for review of performance and needs for improvement Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed Trainings end with the development of an action plan to address problems	Engaging in activities to evaluate and mitigate staff injuries (L32):	
Reviewing performance on set targets for reducing staff injuries with hospital leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems	Setting targets for reducing staff injuries	
leadership  Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		3
Having a plan to reduce the time to assessment from the presentation to the ED, including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		
including a tracking mechanism for evaluation and a set target or goal for improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		
improvement (L37)  Having or participating in an organized collaborative and/or Integrated behavioral health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		1
health services in primary care (L39):  In all primary care settings (2 points)  In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems	improvement (L37)	1
In all primary care settings (2 points) In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40): In all medical specialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of roles and lines of communication Trainings are videotaped to allow for review of performance and needs for improvement Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed Trainings end with the development of an action plan to address problems		
In some primary care settings (1 point)  Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		2
Having or participating in an integrated behavioral health services in medical subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		
subspecialty care (L40):  In all medical specialties/subspecialties (2 points)  In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		
In all medical specialties/subspecialties (2 points) In some medical specialties/subspecialties (1 point)  Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39): All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings Trainings include clear instructions and demonstration of roles and lines of communication Trainings are videotaped to allow for review of performance and needs for improvement Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed Trainings end with the development of an action plan to address problems		
<ul> <li>In some medical specialties/subspecialties (1 point)</li> <li>Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):         <ul> <li>All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings</li> <li>Trainings include clear instructions and demonstration of roles and lines of communication</li> <li>Trainings are videotaped to allow for review of performance and needs for improvement</li> <li>Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> </ul> </li> <li>Trainings end with the development of an action plan to address problems</li> </ul>		2
Engaging in activities designed to ensure "high reliability" and safety of all inpatient services to patients (A39):  • All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings  • Trainings include clear instructions and demonstration of roles and lines of communication  • Trainings are videotaped to allow for review of performance and needs for improvement  • Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  • Trainings end with the development of an action plan to address problems		
<ul> <li>Services to patients (A39):         <ul> <li>All clinical staff (physicians, nurses, etc.) are trained in code response using simulations or other team trainings</li> <li>Trainings include clear instructions and demonstration of roles and lines of communication</li> <li>Trainings are videotaped to allow for review of performance and needs for improvement</li> <li>Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>Trainings end with the development of an action plan to address problems</li> </ul> </li> </ul>	Engaging in activities designed to ensure "high reliability" and safety of all inpatient	
simulations or other team trainings  Trainings include clear instructions and demonstration of roles and lines of communication  Trainings are videotaped to allow for review of performance and needs for improvement  Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems	services to patients (A39):	
<ul> <li>Trainings include clear instructions and demonstration of roles and lines of communication</li> <li>Trainings are videotaped to allow for review of performance and needs for improvement</li> <li>Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>Trainings end with the development of an action plan to address problems</li> </ul>	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>communication</li> <li>Trainings are videotaped to allow for review of performance and needs for improvement</li> <li>Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>Trainings end with the development of an action plan to address problems</li> </ul>		
<ul> <li>Trainings are videotaped to allow for review of performance and needs for improvement</li> <li>Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>Trainings end with the development of an action plan to address problems</li> </ul>		
<ul> <li>improvement</li> <li>Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>Trainings end with the development of an action plan to address problems</li> </ul>		5
<ul> <li>Trainings include critical event debriefing or team discussions that focus on identifying what worked well and where improvement is needed</li> <li>Trainings end with the development of an action plan to address problems</li> </ul>	- · · · · · · · · · · · · · · · · · · ·	
identifying what worked well and where improvement is needed  Trainings end with the development of an action plan to address problems		
Trainings end with the development of an action plan to address problems		
	· · · · · · · · · · · · · · · · · · ·	
	identified during the training or simulation	

<sup>\*</sup> Parenthetical references indicate related survey questions.

## **B.** Ability to Prevent Infections

Incorporating infection-preventing measures captures the commitment of a hospital to identifying and implementing proven means of reducing the risk of various infections.

## **All-Specialty Infection-Preventing Measures**

A core set of submeasures for all specialties was worth up to 33 points, as shown in *Table 10*. Specialty-specific measures in all specialties allowed for up to an additional 29 points, depending on the specialty. Note that this measure was not used in Behavioral Health because it does not impact the care for that specialty.

Table 10. Core Infection-Preventing Measures, All Specialties (Except for Behavioral Health)

All Specialties (Except for Behavioral Health)* (33 points)	Points
Percentage of compliant hand hygiene observations for inpatient care areas in the past 12 months: Neonatology (F37.1): • 1 point for $\geq$ 85% & < 90% • 2 points for $\geq$ 90% For all other specialties (A25): • 1 point for $\geq$ 85% & < 90% • 2 points for $\geq$ 90%	2
Providing at least 0.25 cumulative FTE financial support per 100 licensed beds for a pediatric infectious disease specialist to serve as dedicated physician leaders of the infection-prevention program (A26.1, A1.2)	1
<ul> <li>Number of FTE infection preventionists per 100 licensed beds (A27, A1.2):</li> <li>2 points for ≥ 1.5 FTE per 100 licensed beds</li> <li>1 point for ≥ 0.5 FTE per 100 licensed beds and &lt; 1.5 FTE per licensed 100 beds</li> </ul>	2
<ul> <li>Having eligible infection preventionists certified by the Certification Board in Infection Control (A27.1):</li> <li>2 points for having at least 1 eligible infection preventionist who is certified and at least 50% of eligible infection preventionists certified</li> <li>1 point for having at least 1 eligible infection preventionist who is certified</li> </ul>	2
<ul> <li>Ensuring that healthcare personnel received influenza vaccination (A28a):</li> <li>2 points for ≥ 95% of healthcare personnel</li> <li>1 point for ≥ 90% of healthcare personnel</li> </ul>	2
<ul> <li>Ensuring that licensed independent practitioners (physicians and advanced practice providers) received influenza vaccination (A28b):</li> <li>2 points for ≥ 95% of licensed independent practitioners</li> <li>1 point for ≥ 90% of licensed independent practitioners</li> </ul>	2
<ul> <li>Ensuring students, trainees, and volunteers received influenza vaccination (A28c):</li> <li>2 points for ≥ 95% of students, trainees, and volunteers</li> <li>1 point for ≥ 90% of students, trainees, and volunteers</li> </ul>	2

Table 10. Core Infection-Preventing Measures, All Specialties (Except for Behavioral Health)\*, continued

All Specialties (Except for Behavioral Health)*, continued (33 points)	Points
<ul> <li>Ensuring that at least 95% of the following staff received Tdap vaccination (A29):</li> <li>Employee healthcare personnel</li> <li>Licensed independent practitioners (physicians and advanced practice providers)</li> <li>Students, trainees, and volunteers</li> </ul>	3
Requiring all volunteers to receive or provide documentation of: <ul><li>Influenza vaccination (A29.1)</li><li>Tdap vaccination (A29.2)</li></ul>	2
Offering an influenza vaccination program for families and primary caregivers (A29.3)	1
Offering an adult Tdap booster program for families and caregivers (A29.4)	1
<ul> <li>Having the following elements of antimicrobial stewardship program:</li> <li>Actively monitoring internal days of therapy (DOT) of antibiotic use per 1,000 patients (A31a)</li> <li>Restriction or pre-authorization of selected antimicrobial agents to prevent potential resistance from overuse (A31b)</li> <li>Implementing prospective review and real-time intervention regarding antimicrobial use or "handshake stewardship" (A31c)</li> <li>Use of clinical guidelines in prescribing antimicrobials for community-acquired pneumonia (A31d)</li> <li>IV to PO conversion program available to ensure correct dosage (A31e)</li> <li>Dedicated pharmacist to antimicrobial stewardship program (ASP) with at least 1.0 FTE support for hospitals with at least 250 beds or at least 0.5 FTE support for hospitals with less than 250 beds (A31.2a)</li> <li>At least 0.3 FTE support for the role of medical director of the pediatric ASP program (A31.2b)</li> <li>At least 0.2 FTE support for a dedicated analyst to support ASP program (A31.2c)</li> </ul>	8
Using the following interventions to reduce indwelling urinary catheter utilization in ICU settings (A34.1)  • Written indications for insertion and/or removal of indwelling urinary catheters  • Routine removal of urinary catheters following surgery  • Bladder scanning  • Non-indwelling catheter (e.g., in and out or straight catheter) for urinary retention	4
Providing financial support for 1 or more physicians with 50% or more FTE to serve as dedicated physician leaders of the hospital's outbreak response/incident management/emergency preparedness program (A53 and A53.1)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

## **Specialty-Specific Infection-Preventing Measures**

Cancer (9 additional points). Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received up to 2 points for having rapid (within 6 hours) identification systems available for blood culture isolates to enable

differentiation of key gram-positive bacterial pathogens by genus and major mechanisms of resistance (A32a) and key gram-negative bacterial pathogens by genus and major mechanisms of resistance (A32b). Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point for actively tracking seasonal influenza vaccinations in cancer patients on active chemotherapy, meaning currently receiving chemotherapy or having completed chemotherapy within the last 180 days (B32). Up to 3 additional points were awarded according to the percentage vaccinated (B33): 1 point for  $\geq$  50% and  $\leq$  75%, 2 points for  $\geq$  75% or  $\leq$  90%, and 3 points for  $\geq$  90%.

Cardiology & Heart Surgery (16 additional points). Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received up to 2 points for having rapid (within 6 hours) identification systems available for blood culture isolates to enable differentiation of key gram-positive bacterial pathogens by genus and major mechanisms of resistance (A32a) and key gram-negative bacterial pathogens by genus and major mechanisms of resistance (A32b). Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point for monitoring compliance with preoperative antibiotic prophylaxis for a sample of cases or 2 points for monitoring compliance for all cardiothoracic surgeries (E32). Up to 2 additional points were awarded according to the percentage of compliance (E33): 1 point if  $\geq 75\%$  and < 90%, or 2 points if  $\geq 90\%$ .

Hospitals received up to 4 additional points for engaging in the following surgical site infection-prevention procedures: preoperative bath (E31a), no use of razor for hair removal (E31b), preparation of skin at surgical site with alcohol-containing agent (E31c), and screening for and appropriately decolonizing Staph aureus utilizing a nasal antiseptic (E31d).

Hospitals received up to 3 additional points for limiting cardiac cases developing surgical site infections (SSIs) after cardiac surgery: 3 points for  $\leq$  2% of cases, 2 points for  $\geq$  2% to  $\leq$  3% of cases, and 1 point for  $\geq$  3% to  $\leq$  4% cases (E34).

Diabetes & Endocrinology (4 additional points). Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point for actively tracking seasonal influenza vaccinations in primary care diabetes pediatric outpatients (C42).

Gastroenterology & GI Surgery (15 additional points). Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid

of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received up to 2 points for having rapid (within 6 hours) identification systems available for blood culture isolates to enable differentiation of key gram-positive bacterial pathogens by genus and major mechanisms of resistance (A32a) and key gram-negative bacterial pathogens by genus and major mechanisms of resistance (A32b). Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received up to 2 points for actively tracking seasonal influenza vaccinations for chronic intestinal failure patients (D18) and post-liver transplant patients (D23). Up to 3 points each were awarded based on the percentage of both chronic intestinal failure patients (D19) and liver transplant patients (D24) vaccinated (6 points total): 1 point for  $\geq$  50% and < 75%, 2 points for  $\geq$  75% and < 90%, or 3 points for  $\geq$  90%. Hospitals received up to 2 additional points for implementing strategies for preventing central lineassociated bloodstream infections for total parenteral nutrition patients (D37): 1 point for implementing one or two strategies, or 2 points for implementing 3 or more strategies.

**Neonatology** (10 additional points). Hospitals received up to 2 points for having rapid (within 6 hours) identification systems available for blood culture isolates to enable differentiation of key gram-positive bacterial pathogens by genus and major mechanisms of resistance (A32a) and key gram-negative bacterial pathogens by genus and major mechanisms of resistance (A32b). Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point for auditing hand hygiene compliance rates via electronic monitoring and/or direct observation (F37). Hospitals received 1 point for having written standardized clinical decision support tools (such as guidelines, order sets, treatment algorithm) and 1 point for monitoring compliance with clinical decision support tools for antibiotic use in each the following situations (up to 6 additional points): surgical necrotizing enterocolitis (NEC) repair or drain placement (F38a), gastroschisis abdominal closure (F38b), and medical necrotizing enterocolitis (F38c).

Nephrology (29 additional points). Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received up to 2 points for having rapid (within 6 hours) identification systems available for blood culture isolates to enable differentiation of key gram-positive bacterial pathogens by genus and major mechanisms of resistance (A32a) and key gram-negative bacterial pathogens by genus and major mechanisms of resistance (A32b). Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point each (up to 6 points) for actively tracking seasonal influenza and pneumococcal vaccinations for hemodialysis patients (G12a, G13a), peritoneal dialysis patients (G12b, G13b), and kidney transplant patients (G34, G35). Up to 3 additional points were awarded for each of the six groups (up to 18 points) according to the

percentage up to date on their vaccinations (G12a, G12b, G13a, G13b, G34.1, G35.1): 1 point for  $\geq 50\%$  and  $\leq 75\%$ , 2 points for  $\geq 75\%$  and  $\leq 90\%$ , or 3 points for  $\geq 90\%$ .

**Neurology & Neurosurgery (11 additional points).** Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point for monitoring compliance with preoperative antibiotic prophylaxis for a sample of cases or 2 points for monitoring compliance for all ventricular surgeries (H25). Up to 2 additional points were awarded based on the percentage of compliance (H26): 1 point if  $\geq 75\%$  and < 90%, or 2 points if  $\geq 90\%$ . Hospitals received 1 point for actively tracking SSIs for ventricular shunt surgeries (H27). Up to 3 points were awarded for the rate of surgical site infections per 100 ventricular shunt surgeries performed in the prior year (H28). Points were awarded as follows: 1 point if  $\geq 6\%$  and  $\leq 10\%$ , 2 points if  $\geq 3\%$  and  $\leq 6\%$ , or 3 points if  $\leq 3\%$ .

Orthopedics (8 additional points). Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point for monitoring compliance with preoperative antibiotic prophylaxis for a sample of cases or 2 points for monitoring compliance for all spinal fusion surgeries (I21). Up to 2 additional points were awarded according to the percentage of compliance (I22): 1 point if  $\geq 75\%$  and < 90%, or 2 points if  $\geq 90\%$ . Hospitals received 1 point for monitoring SSIs for spinal fusion surgeries using an established standard program (I23 and I23.1).

Pulmonology & Lung Surgery (20 additional points). Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring. Hospitals received 1 point for having a formal program to prevent hospital-acquired pressure injuries (A36). Hospitals received 1 point each (up to 5 points) for actively tracking seasonal influenza vaccinations for asthma patients (J14), cystic fibrosis patients (J18), lung disease (J27.1), neuromuscular weakness disorder patients (J33) or ventilator-dependent patients (J43). Up to 3 additional points were awarded for the four groups (up to 12 points) according to the percentage vaccinated (J19, J27.2, J34, J44): 1 point for ≥ 50% and < 75%, 2 points for ≥ 75% and < 90%, or 3 points for ≥ 90%.

*Urology (2 additional points)*. Hospitals received up to 2 points for auditing hand hygiene compliance rates (A24): 2 points if audit via direct observation or a hybrid of direct observation and electronic monitoring, or 1 point if audit via electronic monitoring.

## C. Commitment to Equity, Diversity, and Inclusion (All Specialties)

Hospitals received points in all specialties for engaging in activities related to advancing equity, diversity, and inclusion at varying levels within their system of care. These activities focus on three types of activities: (1) those focused on patients and families to improve the equity of care provided, (2) those focused on physicians and leaders designed to promote diversity and inclusion, and (3) those focused on all staff at children's hospitals designed to promote equity, diversity, and inclusion in the interactions with other staff and delivery of care to patients. Hospitals could receive up to 69 points in each specialty for indicating that they were actively involved in collecting and using data on patients and families, putting programs in place to address longstanding diversity and inclusion issues in medicine, and providing training opportunities to staff to encourage equity, diversity, and inclusion in pediatric healthcare.

Table 11. Equity, Diversity, and Inclusion Measures, All Specialties

All Specialties (90 points)	Points
Collecting data on >75% of patients (2 points each) or 25%-75% of patients (1 point each) for each of the following characteristics (A42):  Race Ethnicity Biological sex (assigned at birth) Gender identity Sexual orientation Primary language for healthcare Insurance status Chosen name	16
Reviewing patient demographic information against risk data for hospital-acquired conditions, infections, event reports, patient complaints, medical errors, or other indicators to identify disparities and opportunities for quality improvement (A42.1)	1
Collecting data on >75% of parents/caregivers (2 points each) or on 25%-75% of parents/caregivers (1 point each) for each of the following characteristics (A43):  • Highest level of education of either parent(s)/guardian(s)  • Financial security/insecurity  • Employment status of either parent(s)/guardian(s)  • Primary language for healthcare  • Household food security  • Housing security	12

<sup>\*</sup> Parenthetical references indicate related survey questions.

Table 11. Equity, Diversity, and Inclusion Measures, continued

All Specialties, continued (90 points)	Points
Review data collected about differences in care with oversight boards for each of the following categories/factors (A44):  Race and ethnicity  Sexual orientation and/or gender identity  Highest level of education of either parent(s)/guardian(s) and financial security/insecurity  Primary language for healthcare  Insurance status (or payer source)  Food and/or housing security/insecurity  Having at least 25% of patients and families/caregivers screened for social	6
drivers (determinants) of health and have data recorded in the hospital or health system EMR (A45)	1
Implementing quality improvement projects designed to address a specific known health disparity with the patient population or community (A46 and A46.1)	1
<ul> <li>Having the following elements of a diversity, equity, and inclusion (DEI) program at the hospital (A47)</li> <li>Established formal DEI program dedicated to the children's hospital(s)</li> <li>Designated leader for DEI (such as a Health Equity Officer) in a senior leadership position dedicated to the children's hospital(s)</li> <li>At least 0.75 FTE support provided for DEI leadership position(s) dedicated to the children's hospital(s)</li> <li>At least 0.5 FTE administrative support staff provided to the DEI program dedicated to the children's hospital(s)</li> <li>A separate budget from other activities at the children's hospital or healthcare system</li> <li>Worked across your children's hospital or healthcare system to collaborate with other departments or programs that have related objectives (e.g., community outreach, human resources, faculty affairs)</li> </ul>	6
Having current strategic objectives to increase the number and inclusion/participation of individuals from groups historically underrepresented in medicine (URiM) for each of the following (A49):  Race/ethnicity Gender identity LGBTQ+ Language diversity (i.e., providers who speak and are able to deliver care in additional languages other than English) Age Ability status	6
Having established strategic objectives to improve diversity of senior leadership team (A50)	1

<sup>\*</sup> Parenthetical references indicate related survey questions.

Table 11. Equity, Diversity, and Inclusion Measures, continued

All Specialties, continued (90 points)	Points
Requiring (2 points each) or offering (1 point each) trainings on the following topics for providers and other bedside staff to participate in topics (A51):  Foundations of DEI  Effective communication, including language diversity  Gender identity  Workplace equity/parity  Sexual orientation  Cultural responsiveness/cultural humility  Human trafficking  Principles of trauma-informed care  Impact of the social drivers (determinants) of health  Child abuse/neglect	20
Requiring (2 points each) or offering (1 point each) nurses and other bedside staff to participate in trainings on each of the following diversity, equity, and inclusion topics (A51):  Foundations of DEI  Effective communication, including language diversity  Gender identity  Workplace equity/parity  Sexual orientation  Cultural responsiveness/cultural humility  Human trafficking  Principles of trauma-informed care  Impact of the social drivers (determinants) of health  Child abuse/neglect	20

<sup>\*</sup> Parenthetical references indicate related survey questions.

# D. Prevention/Reduction of Side Effects of Care

For the pediatric and adolescent behavioral health specialty, an additional process measure was included that focused on the prevention or reduction of side effects of care. This measure was made up of items from the survey that evaluated whether hospitals measured the iatrogenic effects of behavioral healthcare. Hospitals received up to 19 points for the following:

Table 12. Prevention/Reduction of Side Effects of Care

Behavioral Health* (19 points)	Points
Metabolic monitoring:  • Antipsychotic medications (L25a)  • Psychostimulants (L25b)	2
Evaluate for atypical movement (L26)	1
A policy designed to reduce the use of mechanical, physical, and pharmacologic restraints and seclusions/exclusions (L31a)  In general medical inpatient care OR behavioral health inpatient care  In the ED	2
A tracking mechanism that records the use of restraints and seclusions/exclusions (L31b)  In general medical inpatient care OR behavioral health inpatient care  In the ED	2
A set target for reducing the time spent in or the number of restraints and seclusions/exclusions (L31c)  In general medical inpatient care OR behavioral health inpatient care  In the ED	2
Reporting and discussing the amount of time in and rate of mechanical, physical, and pharmacologic restraints and seclusions/exclusions (L31d)  In general medical inpatient care OR behavioral health inpatient care  In the ED	2
A standing committee charged with quality improvement efforts reviewing and reducing the use of mechanical, physical, and pharmacologic restraints and seclusion (L31e)  In general medical inpatient care OR behavioral health inpatient care  In the ED	2
Employs preventive strategies designed to proactively reduce the use of mechanical, physical, and pharmacologic restraints (L31f)  In general medical inpatient care OR behavioral health inpatient care  In the ED	2
A mechanism for parents/caregivers to develop a behavior support plan with providers to identify triggers for behavioral escalation and accommodations that can be helpful to address treatment needs (L33)  In inpatient behavioral healthcare  In other inpatient (not behavioral health) care  In outpatient care  Documented in Electronic Health Records (EHR)(L34)	4

# E. Expert Opinion With Pediatric Specialists

Expert opinion can be viewed as a form of peer review of the hospital's capabilities across a wide variety of processes related to quality of care. For all specialties, expert opinion scores were based on responses to the physician surveys conducted in 2022, 2023, and 2024. Scores were

calculated separately in each year and averaged such that each year's scores are given equal weighting in the final expert opinion score, as shown in *Table 13*.

Table 13. Expert Opinion Weight by Survey Year

Sample Source	Expert Opinion Weight	Overall Weight
2024 Physician Survey	33.3%	3.3%
2023 Physician Survey	33.3%	3.3%
2022 Physician Survey	33.3%	3.3%
Total	100.0%	10.0%*

<sup>\*</sup> In Cardiology & Heart Surgery, the overall weight for reputation is 8%.

The sections below describe the approach used for the 2024 survey, which was similar to the 2023 and 2022 surveys. The approaches used for the 2022 and 2023 surveys are provided in the corresponding methodology reports for those years, available at <a href="https://www.rti.org/besthospitals">www.rti.org/besthospitals</a>.

### 2024 Survey Approach

## Sample Selection

Starting with the 2015-16 rankings, the sample has been drawn from a database of U.S. physicians compiled by Doximity. Similar to the AMA Physician Masterfile, which was used as the sampling frame in previous years, Doximity's comprehensive Physician Database includes every practicing U.S. physician, identified by National Provider Identifier (NPI) number. Its sources include the U.S. Department of Health and Human Services NPI Registry, specialty boards (e.g., the American Board of Medical Specialties, the American Board of Surgery, and the American Osteopathic Association) and state medical boards. Doximity's proprietary database is augmented by more than 750,000 registered and verified physician members who review and update their profiles to provide another set of primary data. U.S. News & World Report holds an equity interest in Doximity.

In the 2021-22 rankings, physicians who were board certified in eligible specialties by the American Osteopathic Association became eligible to participate in the survey. Starting in the 2022-23 rankings, only physicians who were Doximity members were eligible to participate in the surveys. *Table 14* lists all eligible board certifications and provides the population counts of Doximity member pediatric specialists eligible in each specialty.

Table 14. Population Counts by Best Hospitals Specialty, Doximity Members

Best Children's Hospitals Specialty	Subspecialties	Doximity Members
Cancer	Pediatric Hematology-Oncology and Pediatric Surgery (ABMS)	3,125
Cardiology & Heart Surgery	Pediatric Cardiology, Pediatric Cardiac Surgery, Pediatric Thoracic Surgery and Pediatric Surgery (ABMS)	3,469
Diabetes & Endocrinology	Pediatric Endocrinology (ABMS and AOA) and Pediatric Surgery (ABMS)	1,641
Gastroenterology & GI Surgery	Pediatric Gastroenterology, Pediatric Transplant Hepatology and Pediatric Surgery (ABMS)	2,948
Neonatology	Neonatal-Perinatal Medicine and Neonatology (ABMS and AOA) and Pediatric Surgery (ABMS)	5,588
Nephrology	Pediatric Nephrology (ABMS)	810
Neurology & Neurosurgery	Child Neurology, Child and Adolescent Neurology, and Pediatric Neurological Surgery* (ABMS, ABPNS, and AOA)	3,062
Orthopedics	Pediatric Orthopedic Surgery and Pediatric Sports Medicine (ABMS and AOA)	1,683
Pulmonology & Lung Surgery	Pediatric Pulmonary and Pediatric Sleep Medicine (ABMS and AOA)	1,395
Urology	Pediatric Urology and Pediatric Surgery (ABMS)	463
Behavioral Health	Adolescent Medicine, Developmental-Behavioral Pediatrics, Neurodevelopmental Disabilities, Child and Adolescent Psychiatry, Neurodevelopment Disabilities (ABMS), Child/Adolescent Psychiatry (AOA), and Child and Adolescent Psychologists	11,997

#### Data Collection Procedures

The Doximity member survey identified a total of 36,181 physicians eligible in one of the 11 pediatric specialties as of March 24, 2024. In February, physicians received an initial email invitation with a link to the survey. The survey asked for names of up to 10 hospitals in the physician's specialty that provide the best care to patients with serious conditions, without considering location or expense. Nonresponding physicians received up to two follow-up email reminders with a link to the survey. In addition, physicians received alerts upon login to Doximity.com or use of the Doximity app inviting them to participate.

#### Response Rates

The overall response rate for the 2022, 2023, and 2024 surveys was 22.2% using the American Association of Public Opinion Research (AAPOR) standard response rate 5.\*\*\*\*

Of 36,181 Doximity members, 6,669 completed the web survey by March 24, 2024. The final response rate for the 2024 survey was 18.4% using AAPOR standard response rate 5. *Table 15* shows response rates by region and specialty.

Table 15. Member Survey Response Rates (%) by Region and Specialty, 2024

Specialty	Midwest	Northeast	South	West	Total
Cancer	28.9	21.8	28.2	18.1	24.8
Cardiology & Heart Surgery	27.5	27.2	32.4	25.1	28.8
Diabetes & Endocrinology	30.1	26.8	30.0	24.2	28.0
Gastroenterology & GI Surgery	25.1	20.6	22.2	23.5	22.7
Neonatology	16.0	13.7	20.5	13.1	16.5
Nephrology	36.3	22.8	32.4	19.1	28.3
Neurology & Neurosurgery	25.7	22.5	24.9	22.2	23.9
Orthopedics	19.3	26.1	26.4	24.3	24.3
Pulmonology & Lung Surgery	29.4	25.6	30.2	26.8	28.2
Urology	46.7	39.8	40.4	39.4	41.5
Behavioral Health	7.2	8.0	7.6	6.6	7.4
Total	19.8	16.4	20.8	15.8	18.4

### Survey Response Weighting

We used post-stratification weights for age by gender (55+ male, <55 male, and female<sup>††††</sup>) and census region. Weights were constructed and applied to each physician's survey response to make nominations representative of Doximity members at the national level. Because all Doximity members were surveyed, weights were used only to adjust for differences in nonresponse by region and demographics. Additionally, scores were adjusted based on a physician's current affiliation. Data from multiple sources were used to determine whether a physician is currently affiliated with each hospital they nominated. Then certain adjustments were performed that result in nominations from unaffiliated physicians being weighted higher than those from physicians who have a current

<sup>\*\*\*\*</sup> Definitions are available online at <a href="https://aapor.org/wp-content/uploads/2023/05/Standards-Definitions-10th-edition.pdf">https://aapor.org/wp-content/uploads/2023/05/Standards-Definitions-10th-edition.pdf</a>.

<sup>###</sup> Age categories were collapsed for females because there were too few female physicians over 55 in the sample.

relationship with the hospital they nominated. The effect of these adjustments is to give higher weight to the opinions of unaffiliated physicians than to those of affiliated physicians, particularly in cases where a hospital received a relatively large proportion of its nominations from affiliated physicians. To ensure the integrity of the Physician Survey and weighting procedures for the Expert Opinion score, no additional methodological detail about this new adjustment will be made public.

#### **Transformation**

Weighted 3-year expert opinion values are displayed in the ranking tables. Before the expert opinion data were combined into the Index of Hospital Quality (IHQ), the values were first capped at 25% (i.e., values exceeding 25% were set to 25%) and then log transformation was implemented to adjust for the skewed distribution of values. By its nature, a survey that solicits recommendations for "best hospitals" will result in data that do not follow a normal distribution. Relatively few hospitals will receive even one recommendation, and of the hospitals recommended, even fewer will receive a substantial number of nominations. Because other ranking components such as structural measures and mortality are not similarly skewed, expert opinion would have a greater impact on the final rankings than is warranted if left unadjusted.

Log transformation reshapes the distribution to more closely match expert opinion data to those of other components. The transformation is applied to the weighted expert opinion data using the formula log(RX + 10) - 1, where RX is the weighted expert opinion score for hospital X. Adding a constant of 10 moderates the effect of the transformation. The transformed data are then normalized. *Figure 1* demonstrates the effect of the transformation.

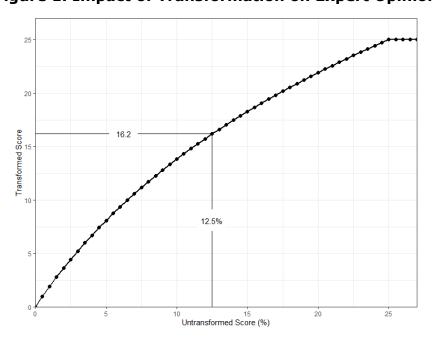


Figure 1. Impact of Transformation on Expert Opinion

The transformed expert opinion scores are mostly higher than the untransformed scores, but the relative increases are larger for low scores than for high ones. For example, an untransformed expert opinion value of 1% has a transformed score of 1.9, an untransformed value of 12.5% has a transformed score of 16.2 (as shown in Figure 1), and an untransformed value of 20% has a transformed score of 21.9. Skewness is thus reduced, and the impact of expert opinion on final standing in the rankings is slightly diminished.

## F. Normalization and Weighting

The process component, which consists of commitment to best practices, infection-prevention program, enhance equity, diversity, and inclusion for patients, families, and staff and expert opinion, is worth one-third (33.3%) of the overall score in each specialty except for Pediatric Cardiology & Heart Surgery and Behavioral Health. The overall measure weight and the process component weight for all other specialties is provided in *Table 16*.

Table 16. Weight of Individual Process Measures (All Specialties Except Pediatric Cardiology & Heart Surgery and Behavioral Health)

Process Measure	Overall Weight	Process Component Weight
Commitment to Best Practices	12.0%	36.0%
Ability to Prevent Infections	9.0%	27.0%
Commitment to Equity, Diversity, and Inclusion	2.33%	7.0%
Expert Opinion with Pediatric Specialists	10.0%	30.0%
Total	33.33%	100.0%

In pediatric Cardiology and Heart Surgery only, the overall weight for expert opinion was 5.0% and the other three measures included in process (Commitment to Best Practices, Ability to Prevent Infections Throughout Hospital, and Commitment to Equity, Diversity, and Inclusion) are worth 12.0%, 9.0%, and 2.33% respectively. The total weight given to the process component is 28.3%. The other 5 percentage points were added to the outcomes component (worth 38.3% in this specialty only).

In pediatric and adolescent Behavioral Health, the overall weight for expert opinion was 10%, while Commitment to Best Practices was 22.67%, and Commitment to Equity, Diversity, and Inclusion was 2.33%. Because of the nature of behavioral healthcare, infection prevention does not play a significant role in the care so it was not factored into this specialty. However, an additional measure focused on the "Prevention/reduction of side effects of care" was included at a weight of 5%. The total weight given to the process component is 40%.

As with the other components, individual process measures were normalized before being combined in the IHQ. Normalization, as described in *Section IV.B*, transforms a measure's index values into a distribution between 0 and 1 based on the range of possible values.

## VI. Outcomes

For the Best Hospitals adult specialty rankings, risk-adjusted mortality 30 days after admission is a key outcome measure. Other measures now used by healthcare researchers as quality indicators include readmissions following surgical or hospital discharge, patient functional status (or improvement), infection rates, and medical complications.

Because of the absence of comprehensive national sources of pediatric outcomes data comparable to the Medicare Standard Analytical File (SAF) data used in the adult rankings, outcomes-related data are obtained directly from pediatric hospitals through the Pediatric Hospital Survey. Such data include bloodstream infection (BSI) rates, transplant survival rates, mitigation of adverse events, and surgical outcomes. Other data will be added over time to address the need for relevant outcomes measures and to provide a more complete picture of pediatric hospital care. Measures for the 2024-25 rankings were developed from recommendations by expert advisory panels, as previously described. Details on specific outcomes measures, how they were calculated, and how they were scored are provided below.

#### A. Outcome Measures

Outcome measures are listed below, by specialty. Scoring rules used to assign points to hospitals for these outcomes are also described below. For all outcomes measures, a higher number of points indicates better outcomes (e.g., higher survival, lower mortality, fewer complications).

#### Cancer

Ability to Prevent Infections in Intensive Care Units (15 points). The rate of infections in intensive care units (ICUs) is considered a good benchmark of patient safety and outcome because such infections in hospital-based care should be minimal. CLABSI rates were calculated as the number of BSIs per 1,000 central-line days during the previous 12 months.

CLABSI (A33) rates were tracked for all pediatric ICUSs and all oncology/stem cell transplant patients (B22). Hospitals were rewarded for lower rates of infections.

For pediatric ICU CLABSI rates, hospitals received up to 5 points. Hospitals received points based on the better score between the National Healthcare Safety Network (NHSN) Standardized Infection Ratio (SIR) for their pediatric ICU and the unadjusted CLABSI rate provided by the

hospital as follows: 5 points if SIR value is  $\leq 0.75$  or unadjusted CLABSI rate is  $\leq 0.5$  infections per 1,000 patient days, 4 points if the SIR value is  $\leq 1.0$  or unadjusted CLABSI rate is > 0.5 and  $\leq 1.0$  infections per 1,000 patient days, 3 points if the SIR value is  $\leq 1.25$  or unadjusted CLABSI rate is > 1.0 and  $\leq 1.5$  infections per 1,000 patient days, 2 points if the SIR value is  $\leq 1.5$  or unadjusted CLABSI rate is > 1.5 and  $\leq 2.0$  infections per 1,000 patient days, or 1 point if the SIR value is > 1.5 or unadjusted CLABSI rate is > 2.0 and  $\leq 3.0$  infections per 1,000 patient days.

For oncology/stem cell transplant patients CLABSI rates, hospitals received up to 10 points per group. Hospitals received points based on the better score between the NHSN SIR for their oncology/stem cell transplant unit and the unadjusted CLABSI rate provided by the hospital as follows: 10 points if SIR value is  $\leq 0.75$  or unadjusted CLABSI rate is  $\leq 0.5$  infections per 1,000 patient days, 8 points if the SIR value is  $\leq 1.0$  or unadjusted CLABSI rate is > 0.5 and  $\leq 1.0$  infections per 1,000 patient days, 6 points if the SIR value is  $\leq 1.25$  or unadjusted CLABSI rate is > 1.0 and  $\leq 2.0$  infections per 1,000 patient days, 4 points if the SIR value is  $\leq 1.5$  or unadjusted CLABSI rate is > 2.0 and  $\leq 4.0$  infections per 1,000 patient days, or 1 point if the SIR value is > 1.5 or unadjusted CLABSI rate is > 4.0 and  $\leq 6.0$  infections per 1,000 patient days.

Ability to Prevent Pressure Injuries (5 points). Hospitals received up to 3 points for lower rates of Stage III, Stage IV, and unstageable hospital-acquired pressure injuries (A38.1 and A38.2). For both Stage III and Stage IV, hospitals received 1 point for a pressure ulcer rate of  $\leq 0.1$  per 100 patient admissions over the last four quarters. For unstageable pressure ulcers, hospitals received 1 point for a pressure ulcer rate of  $\leq 0.2$  per 100 patient admissions assessed over the last four quarters. Hospitals also received up to 2 points for assessing a larger percentage of their total inpatients for pressure ulcers: 1 point for  $\geq 50\%$  or < 75% and 2 points for  $\geq 75\%$ .

Five-Year Cancer Survival (15 points). This measure evaluated the percentage of pediatric patients at least 18 months old with all subtypes and risk levels of acute lymphoblastic leukemia (ALL) (B35a), acute myeloid leukemia (AML) (B35b), Stage L1 neuroblastoma (B35c), NMYC amplified INR L2 or COG Stage 3 and INR stage M and COG Stage 4 neuroblastoma (B35d), and medulloblastoma (B35e) who were alive after 5 years of treatment in the pediatric cancer program. For each of the five measures, hospitals could receive up to 3 points for having a high percentage of 5-year survivors. For ALL, points were awarded as follows: 1 point for ≥ 70% and < 85% survival, 2 points for ≥ 85% and < 95% survival, or 3 points for ≥ 95% survival. For AML and Stage L2/M neuroblastoma, points were awarded as follows: 1 point for ≥ 35% and < 50% survival, 2 points for ≥ 50% and < 60% survival, or 3 points for ≥ 60% survival. For Stage L1 neuroblastoma, points were awarded as follows: 1 point for ≥ 85% and < 95% survival, or 3 points for ≥ 95% survival. For medulloblastoma, points were awarded as follows: 1

point for  $\geq 70\%$  and < 80% survival, 2 points for  $\geq 80\%$  and < 90% survival, or 3 points for  $\geq 90\%$  survival.

Survival After Bone Marrow Transplant (6 points). This measure assessed the percentage of pediatric patients aged 20 years or younger who received allogeneic bone marrow (including cord blood, bone marrow, peripheral, and stem cell) transplants for malignant disease in the past 5 years who died within 100 days following transplant, of all causes other than disease progression (B20.1). Hospitals could receive up to 3 points for survival rates for sibling-matched (HLA-identical) allogeneic transplants (B20.1a, B20.1b): 1 point if > 10% and  $\leq$  25% of patients died within 100 days, 2 points if  $\leq$  5% and  $\leq$  10% of patients died within 100 days, or 3 points if  $\leq$  5% of patients died within 100 days. Hospitals could receive up to 3 points for matched unrelated allogeneic transplants (B20.1c, B20.1d): 1 point if  $\leq$  15% and  $\leq$  30% of patients died within 100 days, 2 points if  $\leq$  5% and  $\leq$  15% of patients died within 100 days, or 3 points if  $\leq$  5% of patients died within 100 days.

## **Cardiology & Heart Surgery**

Ability to Prevent Infections in Intensive Care Units (5 points). The rate was calculated as the number of CLABSI (A33) infections per 1,000 central-line days in pediatric ICUs during the previous 12 months. Hospitals were rewarded for lower rates of infections. Hospitals received up to 5 points. Hospitals received points based on the better score between the NHSN SIR for their pediatric ICU and the unadjusted CLABSI rate provided by the hospital as follows: 5 points if SIR value is  $\leq 0.75$  or unadjusted CLABSI rate is  $\leq 0.5$  infections per 1,000 patient days, 4 points if the SIR value is  $\leq 1.0$  or unadjusted CLABSI rate is > 0.5 and  $\leq 1.0$  infections per 1,000 patient days, 3 points if the SIR value is  $\leq 1.25$  or unadjusted CLABSI rate is > 1.0 and  $\leq 1.5$  infections per 1,000 patient days, 2 points if the SIR value is  $\leq 1.5$  or unadjusted CLABSI rate is > 1.5 or unadjuste

Ability to Prevent Pressure Injuries (5 points). Hospitals received up to 3 points for lower rates of Stage III, Stage IV, and unstageable hospital-acquired pressure injuries (A38.1 and A38.2). For Stage III and IV, hospitals received 1 point for having a pressure ulcer rate of  $\leq 0.1$  per 100 patient admissions assessed over the last four quarters. For unstageable pressure ulcers, hospitals received 1 point for a pressure ulcer rate of  $\leq 0.2$  per 100 patient admissions assessed over the last four quarters. Hospitals also received up to 2 points for assessing a larger percentage of their total inpatients for pressure ulcers: 1 point for  $\geq 50\%$  and  $\leq 75\%$  or 2 points for  $\geq 75\%$ .

Median Postoperative Length of Stay (9 points). Hospitals can receive up to 9 points for success in reducing the time that congenital heart patients spend in the hospital related to their heart

condition for simple to moderately complex cases. For STAT Level 1 (E45a), hospitals received 3 points for having a median postoperative length of stay of  $\leq 3$  days, 2 points for a median postoperative length of stay > 3 and  $\le 5$  days, and 1 point for a median postoperative length of stay > 5 and  $\leq$  8 days. For STAT Level 2 (E45b), hospitals received 3 points for a median postoperative length of stay of  $\leq 7$  days, 2 points for a median postoperative length of stay > 7 and  $\leq 14$  days, and 1 point for a median postoperative length of stay > 14 and  $\le 21$  days. For STAT Level 3 (E45c), hospitals received 3 points for a median postoperative length of stay of  $\leq 7$  days, 2 points for a median postoperative length of stay > 7 and  $\le 16$  days, and 1 point for a median postoperative length of stay > 16 and  $\le 24$  days.

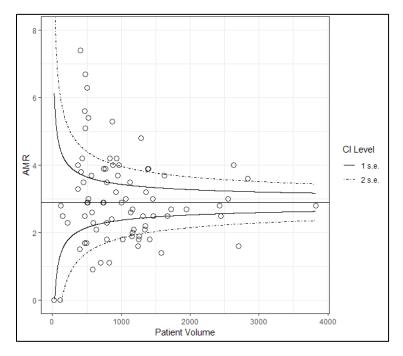
Survival After Congenital Heart Surgery (5 points). Starting with the 2017-18 rankings, hospitals received points for risk-adjusted survival after heart surgery. The Society of Thoracic Surgeons (STS) Congenital Heart Surgery Database (CHSD) provides an adjusted mortality rate (AMR) using a mortality risk model that incorporates a hospital's patient mix to adjust scores based on known risk factors such as the patient's age, weight, procedure type, prior cardiothoracic operations, non-cardiac congenital anatomic abnormalities, chromosomal abnormalities, syndromes, and preoperative risk factors.###

The AMR produced for each hospital estimates what the hospital's mortality rate would be if that hospital's case mix was the same as the overall case mix (across all hospitals). The AMR is calculated as the observed mortality rate divided by the expected mortality rate for that case mix, multiplied by the overall STS mortality rate for all hospitals. Operative mortality is defined in all STS databases as (a) all deaths occurring during the hospitalization in which the operation was performed, plus (b) all deaths, occurring after discharge from the hospital but before the end of the 30th postoperative day. 7,8 Lower scores indicate lower than expected mortality rates. The STS reports also include confidence intervals surrounding the AMR scores.

In an effort to account for the uncertainty in the AMR measure, starting with the 2019-20 rankings, a new method of handling the data was utilized. To accomplish this, we calculated values of 1 and 2 standard errors from the national average dependent on total patient volume across the 4 years using a funnel plot methodology (see Figure 2). The standard errors were calculated using the standard statistical formula of  $\sqrt{\frac{p*(1-p)}{n}}$ , where n represents total patient volume, and p represents the national AMR value (2.66%).

<sup>###</sup> For more information, please see: <a href="https://publicreporting.sts.org/chsd-risk-model">https://publicreporting.sts.org/chsd-risk-model</a>. This measure utilized results from the STS Congenital Heart Surgery Database Feedback Report covering surgeries performed from July 1, 2019, to June 30, 2023. This report includes a significant update to the risk-adjustment related to heart surgery outcomes.





After establishing the ranges for scoring of the AMR using the funnel plot methodology, points were awarded based on the comparison of the hospital's 4-year combined AMR and CI bounds (E43) in the following manner:

- 5 points were awarded to hospitals that had a 4-year combined AMR lower than 2 standard errors from the national average, or who had an upper CI bound less than the national average;
- 4 points were awarded to hospitals that had a 4-year combined AMR between 1 and 2 standard errors lower than the national average;
- 3 points were awarded to hospitals that had a 4-year combined AMR within 1 standard error of the national average;
- 2 points were awarded to hospitals that had a 4-year combined AMR between 1 and 2 standard errors higher than the national average, or who had a 4-year combined AMR higher than 2 stand errors from the national average but also had a lower CI bound less than the national average; and
- 1 point was awarded to hospitals that had a 4-year combined AMR higher than 2 standard errors from the national average.

Hospitals that do not receive a risk-adjusted mortality rate (AMR) from the STS can receive up to 2.5 points for the measure of patient survival after complex heart procedures. This measure represents the rate of operative mortality (patient deaths) following moderately complex to very difficult heart surgery procedures at pediatric hospitals in the four most recent reporting periods (E42). An overall survival rate was computed based on data from STAT levels 1-5 for the past 4 years. Points were assigned as follows: 0.5 points for operative mortality rates > 4.0% and  $\le 5.0\%$ , 1 point for rates > 3.0% and  $\le 4.0\%$ , 1.5 points for rates > 2.0% and  $\le 3.0\%$ , 2 points for rates > 1.0% and  $\le 2.0\%$ , or 2.5 points for rates  $\le 1.0\%$ .

Survival and Prevention of Complications After Certain Complex Heart Procedures

(21 points). Hospitals received 9 points for lower rates of reoperation and support after initial surgeries for each of three types of surgeries: Complete AV Canal repair (E37.1), Arterial Switch Operations for Transposition of the Great Arteries with intact ventricular septum (TGA, IVS) in the last 4 reporting years (E37.3), and Ventricular Septal Defect (VSD) repair surgery in the last 4 reporting years (E37.4). For each type, hospitals received 1 point for > 6% and  $\le 10\%$  reoperation or support after the initial surgery, 2 points for > 3% and  $\le 6\%$  reoperation or support, or 3 points for  $\le 3\%$  reoperation or support.

Hospitals received an additional 12 points for neonates and infants with congenital heart disease (CHD) who had surgery prior to 1 year of age for their CHD. For neonates and infants born at < 37 weeks gestation (E37.5), hospitals received 3 points each for death rates  $\leq$  3%, 2 points each for death rates > 3% and  $\leq$  6%, and 1 point each for death rates > 6% and  $\leq$  12%. For neonates and infants born at > 37 weeks gestation (E37.6), hospitals received 3 points each for death rates  $\leq$  2%, 2 points each for death rates > 2% and  $\leq$  5%, and 1 point each for death rates > 5% and  $\leq$  10%.

Survival After Heart Transplant (6 points). Hospitals received up to 3 points based on a combination of the ratio of observed \$\infty\$\$ to expected (O/E) survival rates and the hazard ratio calculated by Scientific Registry of Transplant Recipients (SRTR) for pediatric patients at 1 and 3 years following heart transplant (6 points total) (E23 and E24/E24.1). The expected survival rate is calculated from statistical models that take into account various factors of both recipients and donors that affect success. A ratio of observed (unadjusted probability of survival) to expected (adjusted probability of survival) survival rates greater than 1.0 indicates that more patients survived than expected, and a ratio of less than 1.0 indicates that fewer patients survived than expected, and a ratio of more than 1.0 indicates that fewer patients survived than expected, and a ratio of more than 1.0 indicates that fewer patients survived than expected. Points were awarded for both

114

<sup>5555</sup> The SRTR now uses "estimated" rather than "observed" survival in its public reports. This report uses "observed" for consistency with other Best Children's Hospitals measures.

1-year and 3-year ratios as follows: 1 point for O/E ratios  $\geq$  0.80 and < 0.90 or hazard ratios > 1.1 and  $\leq$  1.25, 2 points for O/E ratios  $\geq$  0.90 and < 1 or hazard ratios > 1 and  $\leq$  1.1, or 3 points for O/E ratios  $\geq$  1 or hazard ratios  $\leq$  1.

Survival After Norwood/Hybrid Surgery (21 points). Hospitals received up to 9 points based on the percentage of patients who received the Norwood (Stage 1) operation or Hybrid (Stage 1) operation NOT as a planned bridge to transplant in the last 3 years and were alive without a heart transplant at 1 year of age (E40.1); the denominator for this calculation includes all patients who received any of these two procedures, and a Hybrid (Stage 1) operation as a planned bridge to transplant, at each heart center and patients who were in the program but died prior to surgical intervention. Up to 3 points were awarded for each of the three reporting years for 1-year survival rates. Points were awarded as follows: 1 point for survival rates  $\geq$  25% and < 50%, 2 points for survival rates  $\geq$  50% and < 75%, or 3 points for survival rates  $\geq$  75%.

Hospitals received up to 12 points based on the percentage of patients who received the Norwood (Stage 1) operation, Hybrid (Stage 1) operation as a planned bridge to transplant, or Hybrid (Stage 1) operation NOT as a planned bridge to transplant in the last 4 years and were alive regardless of whether they had a heart transplant or not at 1 year of age (E40.2); the denominator for this calculation includes all patients who received any of these three procedures at each heart center and patients who were in the program but died prior to surgical intervention. Up to 3 points were awarded for each of the four reporting years for 1-year survival rates. Points were awarded as follows: 1 point for survival rates  $\geq$  25% and < 50%, 2 points for survival rates  $\geq$  50% and < 75%, or 3 points for survival rates  $\geq$  75%.

## **Diabetes & Endocrinology**

Success in Hypo- and Hyperthyroid Management (9 points). Hospitals received up to 9 points for hypothyroid and hyperthyroid management (C59, C59.1, C59.2). Hospitals received points for having a higher percentage of new congenital hypothyroid patients referred to Pediatric Endocrinology at < 21 days of age who received a confirmatory serum TSH > 50uIU/ml and began thyroid hormone therapy also before 21 days of age (C59). Points were awarded as follows: 1 point for  $\ge 90\%$  and < 95% of patients beginning therapy, 2 points for  $\ge 95\%$  and < 99% of patients beginning therapy, or 3 points for  $\ge 99\%$  patients beginning therapy.

Hospitals received up to 3 additional points for having a higher percentage of congenital hypothyroidism patients <3 years of age at the time of their last visit in 2023 with at least 2 TSH values within normal ranges (C59.1). Points were awarded as follows: 1 point for  $\geq$  75% and < 90% of patients with at least 2 TSH values in normal ranges, 2 points for  $\geq$  90% and < 95% of patients

with at least 2 TSH values in normal ranges, or 3 points for ≥ 95% of patients with at least 2 TSH values in normal ranges.

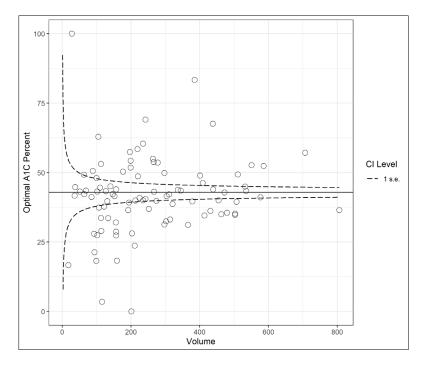
Hospitals received up to 3 additional points for having a higher percentage of patients newly diagnosed with Grave's Disease with at least 1 Free T4 value within normal ranges (C59.2). Points were awarded as follows: 1 point for  $\geq$  50% and < 65% of patients with at least 1 Free T4 value within normal ranges, 2 points for  $\geq$  65% and < 85% of patients with at least 1 Free T4 value within normal ranges, or 3 points for  $\geq$  85% of patients with at least 1 Free T4 value within normal ranges.

Success in Managing Diabetes (78 points). This measure evaluated adverse events in Type 1 and Type 2 diabetes outpatients, rate of optimal hemoglobin A1c levels in primary care Type 1 diabetes outpatients, and inpatient admissions for Type 1 and Type 2 primary care diabetes patients.

To increase the statistical reliability of hospitals' scores on this measure, a funnel plot methodology was first implemented in the 2020-21 rankings to assign points to hospitals for each element of the Success in Managing Diabetes measure. To accomplish this, we calculated the value of 1 standard error from the national average dependent on patient volume across the 4 years (see *Figure 3*). The national average is the average rate of all hospitals that submitted the endocrinology section of the survey. The standard errors were calculated using the standard statistical formula of

 $\sqrt{\frac{p*(1-p)}{n}}$ , where n represents patient volume, and p represents the national ratio value of each metric. After establishing the ranges for scoring of using the funnel plot methodology, points were awarded based on the comparison of the hospital's metric to the national average.

Figure 3. Example Funnel Plot of Optimal A1C Values for Patients 13-17 Years of Age on Private Insurance With Type 1 Diabetes and Patient Volume With 1 Standard Error Lines Used for Point Boundaries



Type 1 diabetes patients < 19 years of age, were evaluated to determine the percentage that achieved optimal control (i.e., at or below 7.5%) for two types of payers (private insurance and Medicaid) and three age groups (0-7 years of age—National average: private insurance = 66.6, Medicaid = 41.0%; 8-13 years of age—National average: private insurance = 67.0%, Medicaid = 41.2%; and 14-18 years of age—National average: private insurance = 60.4%, Medicaid = 39.3%) in the last calendar year. Increases in A1c values increase the risk of microvascular complications in patients. Hospitals received up to 3 points in each of the six groups (18 points total) for higher percentages of patients with optimal A1c values (C35.1). Points were awarded as follows:

- 3 points were awarded to hospitals that had a percentage of patients with optimal A1c values greater than or equal to the 1 standard error upper bound from the national average;
- 2 points were awarded to hospitals that had a percentage of patients with optimal A1c values greater than or equal to the 1 standard error lower bound and less than the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had a percentage of patients with optimal A1c values less than the 1 standard error lower bound from the national average.

Hospitals that had missing data in one of the six populations, but otherwise had data for all other elements, received a score based on their overall average for that population. For example, if a hospital did not have any patients 0-7 years of age in the private insurance group, their score for that population is based on their overall percentage of patients with optimal A1c values across the other five populations. Hospitals that did not have any patients in two or more of the six populations received 0 points for that population.

Type 1 diabetes patients < 19 years of age were evaluated to determine the percentage that achieved poor control (i.e., above 10%) for two types of payers (private insurance and Medicaid) and three age groups (0-7 years of age—National average: private insurance = 3.9%, Medicaid = 13.5%; 8-13 years of age—National average: private insurance = 5.3%, Medicaid = 17.7%; and 14-18 years of age—National average: private insurance = 9.2%, Medicaid = 23.7%) in the last calendar year. Hospitals received up to 3 points in each of the six groups (18 points total) for lower percentages of patients with poor A1c values (C35.2). Points were awarded as follows:

- 3 points were awarded to hospitals that had a percentage of patients with poor A1c values less than or equal to the 1 standard error lower bound from the national average;
- 2 points were awarded to hospitals that had a percentage of patients with poor A1c values less than or equal to the 1 standard error upper bound and greater than the 1 standard error lower bound from the national average;
- 1 point was awarded to hospitals that had a percentage of patients with poor A1c values greater than the 1 standard error upper bound from the national average.

As with the optimal scoring, hospitals that had missing data in one of the six populations, but otherwise had data for all other elements, received a score based on their overall average for that population. Hospitals that did not have any patients in two or more of the six populations received 0 points for that population.

Successful management of Type 1 and Type 2 diabetes patients is reflected by the type of primary care these patients receive. Hospitals were rewarded for lower incidence of inpatient admissions and visits to the ED/urgent care for diabetes-related causes for two types of payers (private insurance and Medicaid) (C29.2). For inpatient admissions for Type 1 (C29.2c—National average: private insurance = 3.1%, Medicaid = 8.7%) and Type 2 (C29.2d—National average: private insurance = 2.5%, Medicaid = 3.1%) primary care diabetes patients for each insured group, and for ED/urgent care visits for Type 1 (C29.2e—National average: private insurance = 2.5%, Medicaid = 5.4%) and Type 2 (C29.2f—National average: private insurance = 2.0%, Medicaid =

2.5%) primary care diabetes patients, hospitals were awarded up to 3 points for each insured group (private insurance and Medicaid) for up to a total of 24 points. Points were awarded as follows:

- 3 points were awarded to hospitals that had a ratio of inpatient admissions or ED/urgent care visits less than or equal to the 1 standard error lower bound from the national average;
- 2 points were awarded to hospitals that had a ratio of inpatient admissions or ED/urgent care visits greater than the 1 standard error lower bound and less than or equal to the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had a ratio of inpatient admissions or ED/urgent care visits greater than the 1 standard error upper bound from the national average.

Hospitals received up to 3 points for cholesterol management through a lipid panel for primary care Type 1 and Type 2 diabetes patients (C41a, C41.1a) for each insured group (Type 1: private/commercial insurance—National average = 89.4% and Medicaid—National average = 85.0%; Type 2: private/commercial insurance—National average = 79.3% and Medicaid—National average = 79.7%) for up to a total of 12 additional points. Hospitals were rewarded according to the percentage of primary care Type 1 and Type 2 patients with LDL cholesterol values less than 130 at the most recent measurement, with Type 1 patients measured in the last 3 years and Type 2 patients measured in the last year (C41b, C41.1b). Points were awarded as follows:

- 3 points were awarded to hospitals that had a percentage of primary care patients with LDL cholesterol values less than 130 at the most recent measurement greater than or equal to the 1 standard error upper bound from the national average;
- 2 points were awarded to hospitals that had a percentage of primary care patients with LDL cholesterol values less than 130 at the most recent measurement greater than or equal to the 1 standard error lower bound and less than the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had a percentage of primary care patients with LDL cholesterol values less than 130 at the most recent measurement less than the 1 standard error lower bound from the national average.

Hospitals received up to 6 points for triglyceride management through lipid measurement for primary care Type 2 patients (C41.2) for each insured group (private/commercial insurance—National average = 58.5% and Medicaid—National average = 58.2%). Hospitals were rewarded according to the percentage of primary care Type 2 patients with triglyceride values less than 150 at the most recent measurement. Points were awarded as follows:

- 3 points were awarded to hospitals that had a percentage of primary care patients with triglyceride values less than 150 at the most recent measurement greater than or equal to the 1 standard error upper bound from the national average;
- 2 points were awarded to hospitals that had a percentage of primary care patients with triglyceride values less than 150 at the most recent measurement greater than or equal to the 1 standard error lower bound and less than the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had a percentage of primary care patients with triglyceride values less than 150 at the most recent measurement less than the 1 standard error lower bound from the national average.

#### **Gastroenterology & GI Surgery**

Ability to Prevent Infections in Intensive Care Units (5 points). The rate was calculated as the number of CLABSI (A33) infections per 1,000 central-line days in pediatric ICUs during the previous 12 months. Hospitals were rewarded for lower rates of infections. Hospitals received up to 5 points. Hospitals received points based on the better score between the NHSN SIR for their pediatric ICU and the unadjusted CLABSI rate provided by the hospital as follows: 5 points if SIR value is  $\leq 0.75$  or unadjusted CLABSI rate is  $\leq 0.5$  infections per 1,000 patient days, 4 points if the SIR value is  $\leq 1.0$  or unadjusted CLABSI rate is > 0.5 and  $\leq 1.0$  infections per 1,000 patient days, 3 points if the SIR value is  $\leq 1.25$  or unadjusted CLABSI rate is > 1.0 and  $\leq 1.5$  infections per 1,000 patient days, 2 points if the SIR value is  $\leq 1.5$  or unadjusted CLABSI rate is > 1.5 or unadjuste

Ability to Prevent Pressure Injuries (5 points). Hospitals received up to 3 points for lower rates of Stage III, Stage IV, and unstageable hospital-acquired pressure injuries (A38.1 and A38.2). For Stage III and IV, hospitals received 1 point for having a pressure ulcer rate of  $\leq 0.1$  per 100 patient admissions assessed over the last four quarters. For unstageable pressure ulcers, hospitals received 1 point for a pressure ulcer rate of  $\leq 0.2$  per 100 patient admissions assessed over the last four quarters. Hospitals also received up to 2 points for assessing a larger percentage of their total inpatients for pressure ulcers: 1 point for  $\geq 50\%$  and < 75% or 2 points for  $\geq 75\%$ .

Success of Certain GI-Related Treatments (6 points). This measure comprises two items: percentage of patients receiving endoscopic procedures with severe complications (D29) and percentage of patients treated for inflammatory bowel disease (IBD) experiencing prednisone-free remission (D32 and D33). Up to 3 points were awarded for each type of procedure. For endoscopic procedures, points were awarded for fewer complications as follows: 1 point for > 3% and  $\le 5\%$  complications, 2 points for > 1% and  $\le 3\%$  complications, or 3 points for  $\le 1\%$  complications. For

IBD prednisone-free remission at the most recent visit, points were awarded as follows: 1 point for  $\geq 55\%$  and < 70% success, 2 points for  $\geq 70\%$  and < 80% success, or 3 points for  $\geq 80\%$  success.

Survival After Liver Transplant (6 points). Hospitals received up to 3 points based on a combination of the ratio of observed\*\*\*\*\*\* to expected survival rates and the hazard ratio calculated by SRTR for pediatric patients at 1 and 3 years after isolated liver transplant (6 points total) (D21 and D22/D22.1). The expected survival rate is calculated from statistical models that take into account various factors of both recipients and donors that affect success. A ratio of observed (unadjusted probability of survival) to expected (adjusted probability of survival) survival rates greater than 1.0 indicates more patients survived than expected, and a ratio of less than 1.0 indicates that fewer patients survived than expected, and a ratio of more than 1.0 indicates that fewer patients survived than expected, and a ratio of more than 1.0 indicates that fewer patients survived than expected. Points were awarded as follows: 1 point for O/E ratios ≥ 0.80 and < 0.90 or hazard ratios > 1.1 and ≤ 1.25, 2 points for O/E ratios ≥ 0.90 and < 1 or hazard ratios > 1 and ≤ 1.1, or 3 points for O/E ratios ≥ 1 or hazard ratios ≤ 1.

### **Neonatology**

Ability to Prevent Infections in Neonatal Intensive Care Unit (5 points).\*\*\* The rate was calculated as the number of BSIs per 1,000 central-line days during the previous 12 months (F26.1). Hospitals were rewarded for lower CLABSI rates, which is calculated as the number of BSI events divided by the number of central line days and multiplied by 1,000. Hospitals received up to 5 points. Hospitals received points based on the better score between the NHSN SIR for their NICU and the unadjusted CLABSI rate provided by the hospital as follows: 5 points if SIR value is  $\leq 0.75$  or unadjusted CLABSI rate is  $\leq 0.5$  infections per 1,000 patient days, 4 points if the SIR value is  $\leq 1.0$  or unadjusted CLABSI rate is > 0.5 and  $\leq 1.0$  infections per 1,000 patient days, 3 points if the SIR value is  $\leq 1.25$  or unadjusted CLABSI rate is > 1.5 and  $\leq 1.5$  infections per 1,000 patient days, 2 points if the SIR value is  $\leq 1.5$  or unadjusted CLABSI rate is  $\leq 1.5$  and  $\leq 1.$ 

**Keeping Breathing Tube in Place (5 points)**. Hospitals were rewarded for having a lower rate of unintended extubations in infants without tracheostomy. The rate was calculated as the number of unintended extubations per 100 patient ventilator days (F32.1). Hospitals received up to 5 points as follows: 1 point for > 3.0 and  $\le 5.0$  extubations per 100 days, 2 points for > 2.0 and

<sup>\*\*\*\*\*</sup> The SRTR now uses "estimated" rather than "observed" survival in its public reports. This report uses "observed" for consistency with other Best Children's Hospitals measures.

In the 2017-18 rankings we attempted to address year-to-year variability in the measurement of BSIs by incorporating data from the last 3 years of reporting in the Pediatric Hospital Survey. After discussions with hospitals and the working groups, we have returned to awarding points based on only the most recent year of data.

 $\leq$  3.0 extubations, 3 points for > 1.0 and  $\leq$  2.0 extubations, 4 points for > 0.5 and  $\leq$  1.0 extubations, or 5 points for  $\leq$  0.5 extubations.

Matching Breast Milk With Correct Infants (4 points). Hospitals were rewarded for having a lower rate of breast milk administration errors, such as a newborn receiving the wrong breast milk. The rate was calculated as the number of breast milk administration errors per 1,000 breast feeding patient days (F10.6). Hospitals received up to 4 points as follows: 1 point for > 1.0 and  $\leq 3.0$  errors per 1,000 breast milk feeding patient days, 2 points for > 0.5 and  $\leq 1.0$  errors, 3 points for > 0.25 and  $\leq 0.5$  errors, or 4 points for  $\leq 0.25$  errors.

NICU Temperature Management (12 points). Hospitals were rewarded for having success in managing temperature at the time of admission and post-operatively for patients in the NICU. Hospitals received up to 3 points for having a lower percentage of patients with a first recorded NICU temperature of < 36.0 degrees Celsius in two patient populations: infants with an admission weight of > 1500 (6 points total). For each of these two categories, hospitals were awarded 3 points for having  $\leq 10\%$  of infants with a temperature of < 36.0 degrees Celsius, 2 points for > 10% and  $\leq 20\%$  of infants with a temperature of < 36.0 degrees Celsius, or 1 point for > 20% and  $\leq 40\%$  of infants with a temperature of < 36.0 degrees Celsius. Because temperature management success rates did not differ significantly between inborn infants (i.e., infants delivered in the hospital where the Level IV NICU is located or at a hospital physically connected to it) and outborn infants (i.e., infants born at another facility and requiring vehicle transfer to hospital or infants previously at home), these populations were pooled within each weight category.

Hospitals could receive an additional 3 points based on the admission temperature of infants who were cooled during transport for the management of hypoxic ischemic encephalopathy in the past 3 years (F13.2). Hospitals received 3 points if  $\leq 10\%$  of infants had an admission temperature  $\leq$  33.0 degrees Celsius, 2 points if  $\geq 10\%$  and  $\leq 20\%$  of infants had an admission temperature  $\leq$  33.0 degrees Celsius, or 1 point if  $\geq 20\%$  and  $\leq 30\%$  of infants had that temperature upon admission. Because this temperature represents overcooling, the goal is to reduce the percentage of patients with admission temperatures of 33.0 degrees Celsius or less.

Hospitals received up to 3 points based the first postoperative temperature within 30 minutes of return to the NICU after surgery (F31.1). Hospitals received points based on the percentage of infants with the first postoperative temperature < 36.0 degrees Celsius. Points were awarded as follows: 3 points if  $\leq 5\%$  of infants had the first postoperative temperature < 36.0 degrees Celsius, 2 points if  $\geq 5\%$  and  $\leq 10\%$  of infants had the first postoperative temperature < 36.0 degrees Celsius, or 1 point if  $\geq 10\%$  and  $\leq 15\%$  of infants had the first postoperative temperature < 36.0 degrees Celsius.

Taking Breast Milk When Discharged (3 points). Hospitals were rewarded for having higher rates of infants on partial or full mother's own milk admitted at less than 7 days of age being discharged (F10.1). Points were awarded as follows: 1 point for > 0% and < 60%, 2 points for  $\ge 60\%$  and < 80%, or 3 points for  $\ge 80\%$ .

### Nephrology

Ability to Prevent Biopsy-Related Complications (6 points). This item measures the percentage of native kidney percutaneous biopsy procedures (G14) and percutaneous kidney transplant biopsies (G27) that resulted in a biopsy complication requiring admission, readmission or a lengthened stay (G15 and G27.2). For both rates, hospitals received more points for having lower complication rates, as follows: 1 point for complication rates > 5% and  $\leq$  10%, 2 points for complication rates > 2% and  $\leq$  5%, or 3 points for complication rates  $\leq$  2%.

Ability to Prevent Dialysis-Related Infections (9 points). Hospitals received 6 points based on a lower peritonitis rate (months of dialysis/cases of peritonitis) for pediatric outpatients on maintenance peritoneal dialysis (G24.1). For each of the past 2 years, up to 3 points were awarded: 1 point for a peritonitis rate of  $\geq 1$  and  $\leq 10$  months between peritonitis cases, 2 points for a rate of  $\geq 10$  and  $\leq 20$  months between cases, or 3 points for a rate of  $\geq 20$  months between cases.

Hospitals could receive an additional 3 points for having lower hemodialysis catheter-associated BSIs for outpatients on maintenance hemodialysis in the last 2 years (G37). Hospitals received points for each year as follows: 1 point for  $\geq 4.0$  and  $\leq 8.0$  infections per 100 patient months, and 2 points for  $\geq 2.0$  and  $\leq 4.0$  infections, or 3 points for  $\leq 2.0$  infections.

Ability to Prevent Infections in Intensive Care Units (5 points). The rate was calculated as the number of CLABSI (A33) infections per 1,000 central-line days in pediatric ICUs during the previous 12 months. Hospitals were rewarded for lower rates of infections. Hospitals received up to 5 points. Hospitals received points based on the better score between the NHSN SIR for their pediatric ICU and the unadjusted CLABSI rate provided by the hospital as follows: 5 points if SIR value is ≤ 0.75 or unadjusted CLABSI rate is ≤ 0.5 infections per 1,000 patient days, 4 points if the SIR value is ≤ 1.0 or unadjusted CLABSI rate is > 0.5 and ≤ 1.0 infections per 1,000 patient days, 3 points if the SIR value is ≤ 1.25 or unadjusted CLABSI rate is > 1.0 and ≤ 1.5 infections per 1,000 patient days, 2 points if the SIR value is ≤ 1.5 or unadjusted CLABSI rate is > 1.5 and ≤ 2.0 infections per 1,000 patient days, or 1 point if the SIR value is > 1.5 or unadjusted CLABSI rate is > 2.0 and ≤ 3.0 infections per 1,000 patient days. Hospitals that do not participate in the NHSN SIR program receive points based on their unadjusted CLABSI rates as follows: 1 point for > 2.0 and ≤ 3.0 infections per 1,000 patient days, 2 points for > 1.5 and ≤ 2.0 infections, 3 points for > 1.0 and ≤ 1.5 infections, 4 points for > 0.5 and ≤ 1.0 infections, or 5 points for ≤ 0.5 infections.

Ability to Prevent Pressure Injuries (5 points). Hospitals received up to 3 points for lower rates of Stage III, Stage IV, and unstageable hospital-acquired pressure injuries (A38.1 and A38.2). For Stage III and IV, hospitals received 1 point for having a pressure ulcer rate of  $\leq 0.1$  per 100 patient admissions assessed over the last four quarters. For unstageable pressure ulcers, hospitals received 1 point for a pressure ulcer rate of  $\leq 0.2$  per 100 patient admissions assessed over the last four quarters. Hospitals also received up to 2 points for assessing a larger percentage of their total inpatients for pressure ulcers: 1 point for  $\geq 50\%$  and < 75% or 2 points for  $\geq 75\%$ .

Success in Managing Dialysis Patients (12 points). This measure evaluates outcomes for patients on maintenance dialysis during the past 2 calendar years (G23). Hospitals received up to 8 points for higher percentage of patients with these favorable outcomes: percentage of monthly Kt/V values of  $\geq 1.2$  for patients who received hemodialysis three times a week, and percentage of total Kt/V values of  $\geq 1.8$  for patients receiving peritoneal dialysis. For each outcome in each of the past 2 years points were awarded as follows: 1 point for desirable outcome rates  $\geq 80\%$  and < 90% or 2 points for desirable outcome rates  $\geq 90\%$ .

Hospitals received up to an additional 4 points based on the percentage of end-stage renal disease patients receiving hemodialysis and/or peritoneal dialysis for at least 3 consecutive months who survived (G20). Rates were divided into two submeasures based on age: infants and children under 5 years of age and children and adolescents aged 5-17. For children under 5 years of age, up to 2 points per item were awarded: 1 point for survival rates  $\geq 80\%$  and < 90% or 2 points for survival rates  $\geq 90\%$ . For children and adolescents aged 5-17, points were awarded as follows: 1 point for survival rates  $\geq 85\%$  and < 95% or 2 points for survival rates  $\geq 95\%$ .

Survival after Kidney Transplant (24 points). Hospitals received up to 24 points based on observed survival rates at 1 and 3 years of the kidney and of the patient for deceased-donor and living donor kidney transplants (24 points total) (G32.1b, G32.2b, G32.3b, and G32.4b). A total of eight observed survival rates, each worth up to 3 points were included: 1- and 3-year graft survival rates (deceased donor), 1- and 3-year graft survival rates (living donor), 1- and 3-year patient survival rates (deceased donor), and 1- and 3-year patient survival rates (living donor). Points were awarded in each of the eight groups based on the observed probability of survival (unadjusted probability of survival) as follows: 1 point for rates  $\geq 0.50$  and < 0.80, 2 points for rates  $\geq 0.80$  and < 0.90, or 3 points for rates  $\geq 0.90$ .

124

<sup>###</sup> The SRTR now uses "estimated" rather than "observed" survival in its public reports. This report uses "observed" for consistency with other Best Children's Hospitals measures.

### **Neurology & Neurosurgery**

Ability to Prevent Surgical Complications (12 points). This measure rewards hospitals for having lower readmission rates. Hospitals received up to 6 points total for having a lower percentage of patients readmitted for any cause within 30 days of the following four surgical procedures: craniotomy (H17a), spinal surgery for dysraphism (H17b), and Chiari decompression (H17c). Points were awarded in each group as follows: 1 point for > 5% and  $\le 15\%$  readmission rate or 2 points for  $\le 5\%$  readmission rate.

Hospitals received up to 3 points for having a lower percentage of unplanned returns to the operating room within 30 days of receiving a craniotomy (H17.1). Points were awarded as follows: 1 point for > 5% and  $\le 15\%$  readmission rate, 2 points for > 3% and  $\le 5\%$  readmission rate, or 3 points for  $\le 3\%$  readmission rate.

Hospitals received up to 3 points for having lower 30-day complication rates for surgical resection or laser ablation in patients with epilepsy (H8 and H8.2). Points were awarded as follows: 1 point for > 5% and  $\le 10\%$  complication rate, 2 points for > 3% and  $\le 5\%$  complication rate, or 3 points for  $\le 3\%$  complication rate.

Success in Controlling Epilepsy (6 points). Hospitals received up to 6 points for the percentage of patients receiving three specific treatments for epilepsy (temporal lobe epilepsy surgery, extra-temporal lobe epilepsy surgery, and hemispherectomy or hemispherotomy) who achieved Engel Class 1-2 after 12 months. Hospitals were rewarded for higher rates of success. For temporal lobe epilepsy surgery including laser ablation (H31.1): 1 point for seizure-free rates  $\geq 50\%$  and < 80% or 2 points for seizure-free rates  $\geq 80\%$ . For extra-temporal lobe epilepsy surgery including laser ablation (H31.2): 1 point for seizure-free rates  $\geq 30\%$  and < 60% or 2 points for seizure-free rates  $\geq 60\%$ . For hemispherectomy or hemispherotomy (H31.3): 1 point for seizure-free rates  $\geq 75\%$  and < 90% or 2 points for seizure-free rates  $\geq 90\%$ .

Survival After Surgery (14 points). Hospitals received up to 14 points for surgical survival rates for seven significant neurological disorders or procedures, including brain tumors (H16a), craniosynostosis (H16b), hydrocephalus patient shunts (H16c), medically intractable epilepsy (H16d), spina bifida, excluding in utero and immediate postnatal repair of myelomeningocele (H16e), Chiari I malformation (H16f), and craniotomies for trauma (H16k). Lower mortality rates indicate better performance (i.e., a lower rate of death following surgery). Points were awarded as follows: 1 point for survival rates ≥ 95% and <99% or 2 points for survival rates ≥ 99%.

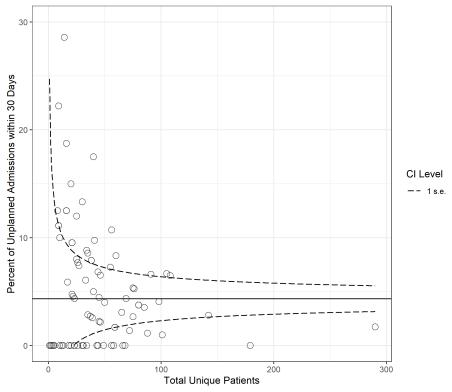
### **Orthopedics**

the lower standard error bound).

Ability to Prevent Surgical Complications (13 points). In an effort to create more statistically reliable scores, a funnel plot scoring methodology was used to assign points to hospitals for each element of the Ability to Prevent Surgical Complications score. To accomplish this, we calculated a value of 1 standard error from the national average dependent on patient volume across the 4-years (see *Figure 4*). The national average is the average rate of all hospitals that submitted the orthopedic section of the survey. The standard errors were calculated using the standard statistical formula of  $\sqrt{\frac{p*(1-p)}{n}}$ , where n represents patient volume, and p represents the national ratio value of each metric. After establishing the ranges for scoring of using the funnel plot methodology, points were awarded based on the comparison of the hospital's metric to the national average. Some metrics are assessed with a 3-point scale and some are assessed with a 2-point scale (see below). The decision for choosing a maximum of 2 points for some metrics is based on the rarity of outcome

Figure 4. Example Funnel Plot of Unplanned Hospital Admissions (For Any Reason) Within 30 days for Patients With Neuromuscular Scoliosis with 1
Standard Error Lines Used for Point Boundaries

rates and overall distribution of hospital volume and outcomes. Metrics where a 2-point maximum is used combine two sections of the funnel plot (e.g., between the standard error bounds and below



For surgical correction of idiopathic scoliosis (I31a), hospitals could receive up to 2 points for each of two adverse outcomes (4 points total): unplanned admissions (for any reason) within 30 days of procedure (I32a—National average: 1.2%) and reoperation (for any cause) within 90 days (I32a—National average: 1.1%). More points were awarded for better performance (i.e., lower adverse event rates) as follows:

- 2 points were awarded to hospitals that had an adverse event rate greater than the 1 standard error lower bound and less than or equal to the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had an adverse event rate greater than 1 standard error upper bound from the national average.

For surgical correction of neuromuscular scoliosis in patients with cerebral palsy who have a Gross Motor Function Classification System (GMFCS) function Level IV or V (I31b), hospitals could receive up to 3 points for each of two adverse outcomes (6 points total): unplanned admissions (for any reason) within 30 days of procedure (I32b—National average: 6.1%) and reoperation (for any cause) within 90 days (I32b—National average: 5.2%). More points were awarded for better performance (i.e., lower adverse event rates) as follows:

- 3 points were awarded to hospitals that had an adverse event rate less than or equal to the 1 standard error lower bound from the national average;
- 2 points were awarded to hospitals that had an adverse event rate less than or equal to the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had an adverse event rate greater than the 1 standard error upper bound from the national average.

Hospitals received an additional 3 points for rates of allogenic blood transfusions for adolescent patients with idiopathic scoliosis with major Cobb angle of 45-70 degrees who received posterior spinal fusion and instrumentation (I32.3—National average: 3.5%). More points were awarded for fewer patients who received allogenic blood transfusions as follows:

- 3 points were awarded to hospitals that had a rate of allogenic blood transfusions less than or equal to the 1 standard error lower bound from the national average;
- 2 points were awarded to hospitals that had a rate of allogenic blood transfusions less than or equal to the 1 standard error upper bound from the national average;

• 1 point was awarded to hospitals that had a rate of allogenic blood transfusions greater than the 1 standard error upper bound from the national average.

Speed and Success in Treating Complex Fractures (11 points). Hospitals received up to 6 points for having a higher percentage of patients with an operating room start time within 18 hours of check-in with the ED for two conditions: operative reduction and fixation of supracondylar fracture (I25) of the humerus and femoral shaft fracture (I26). Hospitals received points for supracondylar fractures as follows: 1 point for  $\geq 60\%$  and < 80% of patients with operating room start times within 18 hours, 2 points for  $\geq 80\%$  and < 90%, or 3 points for  $\geq 90\%$ . Hospitals received points for femoral shaft fractures as follows: 1 point for  $\geq 60\%$  and < 80% of patients with operating room start times within 18 hours, 2 points for  $\geq 80\%$  and < 90%, or 3 points for  $\geq 90\%$ . Hospitals received an additional 2 points for fewer procedures performed on patients with supracondylar fractures using a formal open procedure (I25.1/I25): 2 points for  $\leq 5\%$ , or 1 point for > 5% and  $\leq 10\%$ .

Hospitals received up to 3 additional points for conducting radiographically assisted reductions (without requiring hospital admission) of displaced forearm fractures in patients under 14 years of age (I27). Hospitals received points as follows: 1 point for  $\geq$  60% and < 80% of patients without requiring hospital admission, 2 points for  $\geq$  80% and < 90%, or 3 points for  $\geq$  90%.

## **Pulmonology & Lung Surgery**

Ability to Prevent Infections in Intensive Care Units (5 points). The rate was calculated as the number of CLABSI (A33) infections per 1,000 central-line days in pediatric ICUs during the previous 12 months. Hospitals were rewarded for lower rates of infections. Hospitals received up to 5 points. Hospitals received points based on the better score between the SIR for their pediatric ICU and the unadjusted CLABSI rate provided by the hospital as follows: 5 points if SIR value is  $\leq 0.75$  or unadjusted CLABSI rate is  $\leq 0.5$  infections per 1,000 patient days, 4 points if the SIR value is  $\leq 1.0$  or unadjusted CLABSI rate is > 0.5 and  $\leq 1.0$  infections per 1,000 patient days, 3 points if the SIR value is  $\leq 1.25$  or unadjusted CLABSI rate is > 1.0 and  $\leq 1.5$  infections per 1,000 patient days, 2 points if the SIR value is  $\leq 1.5$  or unadjusted CLABSI rate is > 1.5 or unadjusted CLA

Ability to Prevent Pressure Injuries (5 points). Hospitals received up to 3 points for having lower rates of Stage III, Stage IV, and unstageable hospital-acquired pressure injuries (A38.1 and A38.2). For Stage III and IV, hospitals received 1 point for having a pressure ulcer rate of  $\leq 0.1$  per 100 patient admissions assessed over the last four quarters. For unstageable pressure ulcers, hospitals received 1 point for a pressure ulcer rate of  $\leq 0.2$  per 100 patient admissions assessed over

the last four quarters. Hospitals also received up to 2 points for assessing a larger percentage of their total inpatients for pressure ulcers: 1 point for  $\geq 50\%$  and < 75% or 2 points for  $\geq 75\%$ .

Success in Managing Cystic Fibrosis (CF) Patients (17 points). Hospitals received up to 19 points for representing better outcomes for patients with cystic fibrosis. Hospitals received up to 15 points (3 points for each item) for improving the functional status of cystic fibrosis patients' median body mass index (BMI) for patients 2-19 (J24b), median forced expiratory volume (FEV<sub>1</sub>) for patients 6-12 (J24c), median forced expiratory volume (FEV) for patients 13-17(J24d), the percentage of children ≥ 7 who met treatment guidelines for established CF patients (at least one outpatient visit, one culture, and one pulmonary function test (PFT)) (J24e), and median weight-forlength percentile for CF patients 24 months of age or less (J24f). More points indicate better outcomes or better functional status. For BMI, points were awarded as follows: 1 point for median BMI percentile  $\geq$  40 and < 45%, 2 points for median BMI percentile  $\geq$  45% and < 50%, or 3 points for median BMI percentile ≥ 50%. For the FEV<sub>1</sub> measure, points were awarded as follows: 1 point for median  $FEV_1 \ge 80\%$  and < 90%, 2 points for median  $FEV_1 \ge 90\%$  and < 100%, or 3 points for median  $FEV_1 \ge 100\%$ . For the percentage of children meeting treatment guidelines, points were awarded as follows: 1 point for  $\geq$  50% and < 75%, 2 points for  $\geq$  75% and < 90%, or 3 points for median FEV₁ ≥ 90%. For median weight-for-length percentile for CF patients 24 months of age or less, points were awarded as follows: 1 point for  $\geq$  10% and  $\leq$  25%, 2 points for  $\geq$  25% and  $\leq$  50%, or 3 points for median  $\geq 50\%$ .

Hospitals received up to 2 points for having higher rates of patients over age 10 with cystic fibrosis (not already taking insulin) who completed an oral glucose tolerance test in the previous 12 months (J23). One point was awarded for  $\geq 50\%$  and < 75% of patients completing the test or 2 points were awarded for  $\geq 75\%$  of patients completing the test.

Success With Asthma Inpatients (8 points). Success with asthma patients was measured by two factors: shorter inpatient stays and lower readmission rates for asthma-related symptoms. Hospitals were awarded up to 6 points total based on the percentage of asthma inpatients readmitted within 7 days and 30 days for exacerbation of asthma-related symptoms (J13). Hospitals were rewarded for lower percentages of inpatient readmissions: 1 point each for readmission rates > 3% and  $\leq$  5%, 2 points each for rates > 1.5% and  $\leq$  3%, or 3 points each for rates  $\leq$  1.5%. Up to 2 additional points are awarded for shorter lengths of stay for asthma inpatients (J12): 1 point for an average stay > 2 days and  $\leq$  4 days or 2 points for a stay  $\leq$  2 days.

Survival After Lung Transplant (5 points). Hospitals received up to 5 points based on the observed survival rates at 1 year and 3 years for pediatric lung transplant patients (J47 and J48). Points were awarded in each group based on the observed probability of survival (unadjusted probability of survival). For 1-year survival rates, hospitals received 1 point for rates  $\geq 50\%$  and < 65%, 2 points for rates  $\geq 65\%$  and < 80%, or 3 points for rates  $\geq 80\%$ . For 3-year survival rates, hospitals received 1 point for rates  $\geq 50\%$  and < 60%, or 2 points for rates  $\geq 60\%$ .

### **Urology**

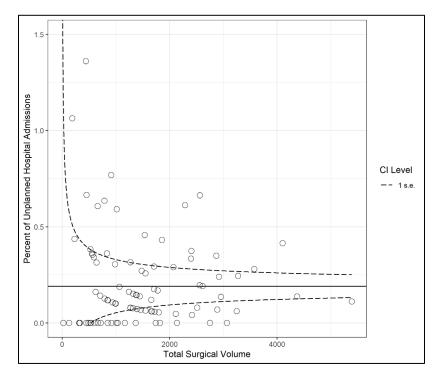
Ability to Prevent Surgical Complications (15 points). This measure evaluated a number of complications and adverse outcomes in patients who received urologic surgical procedures in the last 3 years.

In an effort to create more statistically reliable scores, a funnel plot scoring methodology was first implemented in the 2020-21 rankings to assign points to hospitals for each element of the Ability to Prevent Surgical Complications score. To accomplish this, we calculated a value of 1 standard error from the national average dependent on surgical volume across the 4 years (see *Figure 5*). The national average is the average rate of all hospitals that submitted the urology section of the survey. The standard errors were calculated using the standard statistical formula of  $\sqrt{\frac{p*(1-p)}{n}}$ , where n represents surgical volume, and p represents the national ratio value of each metric. After establishing the ranges for scoring of using the funnel plot methodology, points were awarded based on the comparison of the hospital's metric to the national average. Some metrics are assessed with a 3-point scale and some are assessed with a 2-point scale (see below). The decision for choosing a maximum of 2 points for some metrics is based on the rarity of outcome rates and overall distribution of hospital volume and outcomes. Metrics where a 2-point maximum is used, combine two sections of the funnel plot (e.g., between the standard error bounds and below the lower standard error bound).

\_

The SRTR now uses "estimated" rather than "observed" survival in its public reports. This report uses "observed" for consistency with other Best Children's Hospitals measures.

Figure 5. Example Funnel Plot Unplanned Hospital Admissions for Urologic Issue Within 30 Days of Inpatient Urological Surgery and Surgical Volume With 1 Standard Error Lines Used for Point Boundaries



Hospitals received up to 3 points for complications for distal hypospadias (K15a—National average: 3.8%) surgical procedures. More points were awarded for better performance (i.e., lower complication rates), as follows:

- 3 points were awarded to hospitals that had a complication rate less than or equal to the 1 standard error lower bound from the national average;
- 2 points were awarded to hospitals that had a complication rate greater than the 1 standard error lower bound and less than or equal to the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had a complication rate greater than 1 standard error upper bound from the national average.

Hospitals received up to 2 points for the rate of complications for each of the following surgical procedures (4 points total): pyeloplasty (K15b—National average: 4.1%) and ureteral reimplantation, primary or revision surgery (K15c—National average: 1.9%). More points were awarded for better performance (i.e., lower complication rates), as follows:

- 2 points were awarded to hospitals that had a complication rate less than or equal to the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had a complication rate greater than 1 standard error upper bound from the national average.

For adverse events of unplanned hospital admissions for indication related to the original urological procedure within 30 days of inpatient urological surgery (K16.1a—National average: 1.52%) following a scheduled ambulatory urological surgical procedure (K16.1b—National average: 0.2%), hospitals received up to 3 points for each of the two measures (6 points total), with more points awarded for better performance (i.e., lower adverse event rates) as follows:

- 3 points were awarded to hospitals that had an adverse event rate less than or equal to the 1 standard error lower bound from the national average;
- 2 points were awarded to hospitals that had an adverse event rate greater than the 1 standard error lower bound and less than or equal to the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had an adverse event rate greater than 1 standard error upper bound from the national average.

For adverse events of unplanned reoperation for indication(s) directly related to the original urological procedure within 48 days of urological surgery (K16.1c—National average: 0.05%), hospitals received up to 2 points with more points awarded for better performance (i.e., lower adverse event rates) as follows:

- 2 points were awarded to hospitals that had an adverse event rate less than or equal to the 1 standard error upper bound from the national average;
- 1 point was awarded to hospitals that had an adverse event rate greater than the 1 standard error upper bound from the national average.

Speed in Treating Testicular Torsion (2 points). This measure evaluates how quickly patients who presented with torsion of the testis received care following their registration for care in the ED or outpatient clinic (K19). Hospitals received 1 point for  $\geq 50\%$  and < 90% of patients who spent < 4 hours in the OR following their registration for care in the ED or outpatient clinic or 2 points for  $\geq 90\%$  of patients who spent < 4 hours in the OR before surgery.

#### **Behavioral Health**

Medication safety screening (6 points). This measure evaluated the rate at which hospitals screened patients for medication side effects to ensure patient safety (L27, L29). Two conditions were considered—antipsychotic medications and ADHD medications. Hospitals reported how many pediatric and adolescent patients were prescribed antipsychotic medications and of this group how many had a metabolic screening completed/documented in the medical chart. For patients on ADHD medications, hospitals reported on the number of patients prescribed these medications and the number that had two or more follow-up visits with a provider to assess side effects of the medication that could further create problems for patients and their families.

- Up to 3 points were awarded for screening for side effects of antipsychotic medication (L27):
  - O Hospitals received 3 points if 90% or more of patients who were prescribed antipsychotic medications had a complete metabolic screening documented in their chart in the last calendar year.
  - O Hospitals received 2 points if 75%-89% of patients who were prescribed antipsychotic medications had a complete metabolic screening documented in their chart in the last calendar year.
  - Hospitals received 1 point if 50%-74% of patients who were prescribed antipsychotic medications had a complete metabolic screening documented in their chart in the last calendar year.
- Up to 3 points were awarded for screening for side effects of medications used to treat ADHD (L29):
  - Hospitals received 3 points if 90% or more of patients who were prescribed
     ADHD medication had at least two follow-up visits in the 12 months following prescription.
  - Hospitals received 2 points if 75%-89% of patients who were prescribed ADHD medication had at least two follow-up visits in the 12 months following prescription.
  - Hospitals received 1 point if 50%-74% of patients who were prescribed ADHD medication had at least two follow-up visits in the 12 months following prescription.

Speed/Efficiency of Behavioral Health Assessment in the ED (3 points). This measure evaluated the relative speed of completing behavioral health assessments in the ED (L36). Hospitals reported on the number of patients treated and the number that received a behavioral

health assessment in the ED after being medically cleared and the order had been entered into the chart. The measure evaluates how quickly hospitals are able to provide these assessments, which are critical to provide care to patients with behavioral health needs.

- Three points were awarded if more than 90% of unique patients seen in the ED received consult in less than 2 hours following the entry of the order for an evaluation.
- Two points were awarded if 75%-89% of unique patients seen in the ED received consult in less than 2 hours following the entry of the order for an evaluation.
- One point was awarded if 25%-74% of unique patients seen in the ED received consult in less than 2 hours following the entry of the order for an evaluation.

## B. Normalization and Weighting

As with structural and process measures, individual outcomes measures were normalized to have a distribution between 0 and 1. *Table 17* shows the relative weight of each measure on the total outcomes score for that specialty. The outcome measures combined are worth 33.3% of the overall score in all specialties except for two specialties, pediatric Cardiology & Heart Surgery and Behavioral Health. In Cardiology and Heart Surgery outcomes are worth 38.3% and in behavioral health outcomes are worth 20%. To determine the percentage of the overall score for a given measure, divide the individual measure relative weight by the total weight for that specialty and multiply by 33.3 (38.3 in Cardiology & Heart Surgery or 20 in Behavioral Health).

Table 17. Relative Weights of Outcomes Measures by Specialty

Measure	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterology & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Ability to prevent biopsy-related complications						1					
Ability to prevent dialysis-related infections						1					
Ability to prevent infections in intensive care units	0.38	0.98		0.56	2	0.74			1		
Ability to prevent pressure injuries	0.11	0.29		0.17		0.22			0.30		

(continued)

**Table 17. Relative Weights of Outcomes Measures by Specialty, continued** 

						-	-				
Measure	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterology & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Ability to prevent surgical							1.25	1		1.75	
complications											
ive-year cancer survival	1										
Keeping breathing tube in					1						
olace											
Matching breast milk with					1						
correct infants											
Median postoperative		1									
ength of stay											
Medication safety											1.6
screening											
					1						
								1			
reating complex fractures											
											1.4
										1	
							1				
			1								
nanagement									2		
systic fibrosic patients											
			2								
			_								
						1					
						_					
				2							
				_					1		
									1.5		
									5		
	1	1		1		1			0.5		
	-	_		_							
iver/lung) transplant											
Survival after certain		2									
complex heart procedures									1		
Survival after congenital		5									
neart surgery									<u> </u>		
Ability to prevent surgical complications Five-year cancer survival Keeping breathing tube in place Matching breast milk with correct infants Median postoperative ength of stay Medication safety Screening NICU temperature management Speed and success in creating complex fractures Speed/efficiency of assessment in the ED Speed in treating Success in controlling Speilepsy Success in managing Cystic fibrosis patients Success in managing Cystic fibrosis patients Success in managing Cystic fibrosis patients Success of certain GI-related treatments Success with asthma npatients Survival after (bone marrow/heart/kidney/iver/lung) transplant Survival after certain Complex heart procedures Survival after congenital	1	1 2	Diabet		1	1			2 1.5 0.5		1.6

(continued)

Table 17. Relative Weights of Outcomes Measures by Specialty, continued

Measure	Cancer	Cardiology & Heart Surgery	Diabetes & Endocrinology	Gastroenterology & GI Surgery	Neonatology	Nephrology	Neurology & Neurosurgery	Orthopedics	Pulmonology & Lung Surgery	Urology	Behavioral Health
Survival after Norwood/hybrid surgery		1									
Survival after surgery							1				
Taking breast milk when discharged					1						
Total	2.49	11.27	3.00	3.73	6.00	4.96	3.25	2.00	5.30	2.75	3.00

### VII. Calculation of the U.S. News Score

The U.S. News ranking score reflects the followings weights for each of the major components and the individual process measures as shown in *Table 18*. Starting with the 2017-18 rankings, individual component weights differ for Cardiology & Heart Surgery when compared with the other specialties. The differences can be seen in Table 18. This shift in scoring is the result of the inclusion of risk-adjusted mortality measures, which are more reliable than the observed outcome measures used in the other specialties.

Relative structural measure weights can be found in Table 8, and the relative outcomes measure weights are shown in Table 18.

**Table 18. Component Weighting** 

Component	All Specialties Except Pediatric Cardiology & Heart Surgery and Pediatric & Adolescent Behavioral Health	Pediatric Cardiology & Heart Surgery	Pediatric & Adolescent Behavioral Health
Structure	33.3%	33.3%	40.0%
Process: Commitment to Best Practices	12.0%	12.0%	22.7%

(continued)

Table 18. Component Weighting, continued

Component	All Specialties Except Pediatric Cardiology & Heart Surgery and Pediatric & Adolescent Behavioral Health	Pediatric Cardiology & Heart Surgery	Pediatric & Adolescent Behavioral Health
Process: Infection- Preventing Measures	9.0%	9.0%	n/a
Process: Commitment to Equity, Diversity, and Inclusion	2.3%	2.3%	2.3%
Process: Prevention/Reduction of Side Effects of Care*	n/a	n/a	5.0%
Process: Expert Opinion	10.0%	5.0%	10.0%
Outcomes**	33.3%	38.3%	20.0%

<sup>\*</sup>This process measure is unique to the Behavioral Health specialty.

Although each measure represents a specific aspect of quality, a single score provides a result that is easy to use and understand and that portrays overall quality more accurately than any of the three components would individually. The rankings for the top 50 hospitals in each of the pediatric specialties, by U.S. News score, are shown in *Appendix C*. Starting with the 2012-13 rankings, hospitals with the same U.S. News rounded score have been considered to be tied. For the Pediatric & Adolescent Behavioral Health specialty, the top 50 hospitals are listed alphabetically.

The formula for calculating the U.S. News score for a given hospital is shown in Equation (2). The score can be thought of as a simple weighted sum of structural, process, and outcome measures as shown below:

Equation (2) 
$$Score = \left(\sum_{i=1}^{n_s} wts_i * s_i\right) + \left(\sum_{i=1}^{n_p} wtp_i * p_i\right) + \left(\sum_{i=1}^{n_o} wto_i * o_p\right),$$
 where

*Score* = raw hospital score in a given specialty,

 $wts_i$  = weight assigned to structure measure i,

 $wtp_i$  = weight assigned to process (expert opinion) measure i,

 $wto_i$  = weight assigned to outcomes measure i,

 $s_i$  = normalized value for structural measure i,

 $p_i$  = normalized value for process measure i,

<sup>\*\*</sup>Numbers do not add up to total because of rounding.

 $o_i$  = normalized value for outcomes measure i.

Please note that the formula is meant for illustrative purposes only; it *cannot* be used to directly calculate a score for an individual hospital. For presentation purposes, raw scores are 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):

Equation (3) U.S. News Score = (score - minimum)/range

#### VIII. Pediatric Honor Roll

In all, 88 hospitals were ranked in at least one pediatric specialty in the 2024-25 rankings. The Best Children's Hospitals Honor Roll, established in 2009, recognizes excellence across a broad range of pediatric specialties.

In the new Behavioral Health specialty, each hospital that ranked among the top 50 hospitals received 5 points.

In each other specialty, the No. 1-ranked hospital received 25 Honor Roll points and lower ranked hospitals received progressively fewer points—the No. 2 hospital receiving 24 points, the No. 3 hospital 23 points, and so on—with all hospitals ranked 21-50 receiving 5 points. A hospital ranked No. 1 in all 11 specialties would therefore have received 255 points. The 2024-25 Honor Roll recognizes the 10 hospitals that earned the most points out of 255 across the 11 specialties. The top 10 hospitals based on total points are listed alphabetically in the Honor Roll in *Appendix D*.

### IX. 2024-25 Changes

• Addition of pediatric and adolescent Behavioral Health as a ranked specialty. Following the addition of test questions measuring pediatric and adolescent behavioral health in the 2021, 2022, and 2023 U.S. News Pediatric Hospital Surveys, the project team at U.S. News and RTI have evaluated a number of questions for possible use in a new specialty. For 2024 the survey included updated questions and is being scored for a ranking in this specialty area for the first time. The addition of the ranked specialty also involved the creation of measures that are specific to pediatric and adolescent behavioral health including measures assessing the screening of medications safety, speed/efficiency of assessments in the ED, and the prevention or reduction of side effects of care. This specialty will continue to evolve based on feedback from the working group, hospitals, and other interested parties within behavioral healthcare over the next few years.

- Refinement of the Commitment to Equity, Diversity, and Inclusion measure. This year the section of questions focusing on efforts that hospitals engage in to address equity, diversity, and inclusion was revised in the survey to better reflect efforts that hospitals engage in. Hospitals received points in all specialties for engaging in activities related to advancing equity, diversity, and inclusion at varying levels within their system of care. This measure will continue to evolve over the next few years as hospital engage in more equity, diversity, and inclusion activities to address patient, family, provider, and staff needs.
- **Honor Roll.** In recognition that specialty-specific data is more informative to families, ordinal rankings were not used in the Honor Roll.

## X. Future Improvements

Continued refinements are anticipated during the next few years. They are likely to include the following:

- **Reduce survey burden.** Priority will be placed on removing or simplifying data elements that hospitals are required to submit via the Pediatric Hospital Survey, in order to reduce the resources hospitals devote to participating.
- Further refine Pediatric & Adolescent Behavioral Health rankings and questions. After testing the questions in the Behavioral Health section in 2021, 2022, and 2023, this specialty was scored for the first time in 2024. We plan to continue to refine these questions and their scoring in future years.
- Consider further weighting changes. We plan to review the survey with the
  working groups to consider additional changes to the weights used in the rankings to
  assess hospitals.
- Refine outcome measures. We plan, for example, to explore alternatives for
  collecting additional mortality data, infection rates, patient functional measures, and
  complication rates.
- Explore risk adjustment. We will continue to investigate methods for riskadjusting pediatric mortality data to better reflect hospital-to-hospital differences in
  patient mix, severity, and comorbidities. As more pediatric-specific databases are
  developed or further expanded to include more pediatric facilities, we will explore
  their possible use in creating risk-adjusted outcomes and performance measures of
  healthcare.

• Identify opportunities for data validation and auditing. To ensure the integrity of the data used, the project team plans to continue to explore opportunities for employ data validation and possible auditing techniques to evaluate data submitted by hospitals for consideration in the rankings.

The project team will continue to work with advisory panels of physicians, nurses, hospital quality specialists, and other healthcare professionals. RTI and U.S. News are grateful to these expert volunteers. Their recommendations and advice have been invaluable.

#### **XI. Contact Information**

We welcome suggestions and questions. Readers and users of the rankings are encouraged to contact the Best Children's Hospitals research team at <a href="mailto:BestHospitals@rti.org">BestHospitals@rti.org</a>. This report and methodology reports for the adult rankings can be viewed or downloaded online in their entirety from the RTI International website at <a href="http://www.rti.org/besthospitals">http://www.rti.org/besthospitals</a>.

#### XII. References

- 1. Donabedian A. Evaluating the quality of medical care. *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. National Center for Health Statistics. *The international classification of diseases, ninth revision, clinical modification (ICD-9-CM)*. Hyattsville, MD: National Center for Health Statistics. Available at http://www.cdc.gov/nchs/icd/icd9.htm. Accessed on April 21, 2006.
- 7. Jacobs JP, Mavroudis C, Jacobs ML, et al. What is operative mortality? Defining death in a surgical registry database: a report from the STS Congenital Database Task Force and the Joint EACTS-STS Congenital Database Committee. *Annals of Thoracic Surgery*. 2006;81:1937–41.

8. Overman D, Jacobs JP, Prager RL, et al. Report from The Society of Thoracic Surgeons National Database Work Force: clarifying the definition of operative mortality. *World Journal of Pediatric Congenital Heart Surgery*. 2013;4:10–2.

# Appendix A 2024-25 Best Children's Hospitals Working Groups and Members

The Pediatric Hospital Survey is informed, updated, and enhanced every year with the help of more than 168 volunteer advisers in 14 working groups—one group for each of the 10 Best Children's Hospitals specialties, plus infection control, radiology, and Behavioral Health. Three senior advisers provide overarching expertise.

The working groups' input is invaluable. However, U.S. News and RTI International make all final decisions concerning the content and wording of the survey and the analysis of the data it generates. Working group members do not have access to the data provided by participating hospitals and are not asked to endorse the decisions made by U.S. News.

The working group members and their institutions are listed below.

#### 2024-25 Best Children's Hospitals Working Groups and Advisers

#### Behavioral Health

- Dr. David Axelson, Nationwide Children's Hospital
- Dr. Barbara Felt, C.S. Mott Children's Hospital
- Dr. Lisa Giles, Primary Children's Hospital
- Dr. Cori Green, New York Presbyterian, Phyllis and David Komansky Center for Children's Health
- Dr. Heather Huszti, CHOC Children's Hospital
- Dr. Jennifer Katzenstein, Johns Hopkins All Children's Hospital
- Dr. Elizabeth McCauley, Seattle Children's Hospital
- Dr. Andres Pumariega, UF Health Shands Children's Hospital
- Dr. Mandakini Sadhir, Kentucky Children's Hospital
- Dr. Michael Sorter, Cincinnati Children's Hospital Medical Center
- Dr. Diane Straub, Children's Hospital Colorado
- Dr. Robert Voigt, Ochsner Hospital for Children
- Dr. John Walkup, Ann & Robert H. Lurie Children's Hospital of Chicago
- Dr. Carol Weitzman, Boston Children's Hospital

#### Cancer

- Dr. Tim Cripe, Nationwide Children's Hospital
- Dr. Christopher Dandoy, Cincinnati Children's Hospital Medical Center
- Dr. Jeffrey Dome, Children's National Medical Center
- Dr. Jeffrey D. Hord, Akron Children's Hospital
- Ms. Kristen Johnston, Cook Children's Medical Center
- Dr. Jessica Kandel, University of Chicago, Comer Children's Hospital
- Dr. Eugenie Kleinerman, M.D. Anderson Children's Cancer Center
- Dr. Andrew Kung, Memorial Sloan Kettering Cancer Center
- Dr. Ellis Neufeld, St. Jude Children's Research Hospital
- Ms. Elizabeth Rankin, Loma Linda University Children's Hospital
- Dr. Rita Secola, Children's Hospital Los Angeles
- Dr. Sheri Spunt, Lucile Packard Children's Hospital at Stanford University

#### Cardiology & Heart Surgery

- Dr. John Breinholt III, Penn State Health Children's Hospital
- Dr. Catherine Collins, Ann & Robert H. Lurie Children's Hospital of Chicago
- Dr. Charles Fraser, Jr., Dell Children's Medical Center
- Dr. Jeffrey Jacobs, University of Florida, Gainesville
- Dr. Kathy Jenkins, Boston Children's Hospital
- Dr. Jennifer Li, Duke Children's Hospital and Health Center
- Dr. Bradley Marino, Cleveland Clinic Children's Hospital
- Dr. Doff McElhinney, Lucile Packard Children's Hospital at Stanford University
- Dr. Sara Pasquali, C.S. Mott Children's Hospital
- Dr. Christian Pizarro, Nemours Children's hospital Delaware
- Dr. Phil Saul, WVU Healthcare Children's Hospital
- Dr. David Vener, Texas Children's Hospital
- Dr. Karl F. Welke, Levine Children's Hospital

#### Diabetes & Endocrinology

- Dr. Mark Clements, Children's Mercy Hospitals and Clinics
- Dr. Fran Cogen, Children's National Medical Center
- Dr. Carla Demeterco-Berggren, Rady Children's Hospital San Diego
- Dr. Larry Fox, Wolfson Children's Hospital/Nemours Children's Health Jacksonville
- Dr. Genna Klein, Hackensack Meridian Health JM Sanzari and K Hovnanian Children's Hospitals
- Dr. Madhusmita Misra, Mass General Hospital for Children
- Dr. David Repaske, University of Virginia Children's Hospital
- Ms. Lydia Smith, Le Bonheur Children's Hospital
- Dr. Doris Taha, Children's Hospital of Michigan
- Dr. Steven Willi, Children's Hospital of Philadelphia
- Dr. Jamie Wood, Rainbow Babies & Children's Hospital

#### Gastroenterology & GI Surgery

- Dr. Bradley Barth, University of Texas Southwestern Medical Center/Children's Health
- Dr. Michael Bates, Dayton Children's Hospital
- Dr. Jeffrey Bornstein, Orlando Health Arnold Palmer Hospital for Children
- Dr. Adela Casas-Melley, Nemours Children's hospital Florida
- Dr. Ryan Himes, Ochsner Hospital for Children
- Dr. Eunice Huang, Monroe Carell Jr. Children's Hospital
- Dr. Inna Novak, Hackensack Meridian Health JM Sanzari and K Hovnanian Children's Hospitals
- Dr. Thomas Sferra, Rainbow Babies & Children's Hospital
- Dr. Mitchell Shub, Phoenix Children's Hospital
- Dr. Robbyn Sockolow, New York Presbyterian, Phyllis and David Komansky Center for Children's Health
- Mr. Jorde Spitler, Dayton Children's Hospital
- Dr. Daniel von Allmen, Cincinnati Children's Hospital Medical Center

#### Health Equity/Diversity/Inclusion

- Dr. Lalit Bajaj, Children's Hospital Colorado
- Dr. Oscar Benavidez, Mass General Hospital for Children
- Dr. Denice Cora-Bramble, Children's National Medical Center
- Dr. Cynthia Cross, Le Bonheur Children's Hospital
- Ms. Christine Geistkemper, M.D. Anderson Cancer Children's Hospital
- Ms. Susan Kline, Duke Children's Hospital
- Dr. Anu Partap, Cook Children's Medical Center
- Ms. Tracie Smith, Ann & Robert H. Lurie Children's Hospital of Chicago
- Ms. Alicia Tieder, Seattle Children's Hospital
- Dr. Marsha Treadwell, UCSF Benioff Children's Hospital
- Dr. Janelle White, Atrium Health Levine Children's Hospital

#### **Infection Control**

- Dr. Margaret Aldrich, NYU Langone Health System
- Dr. Allison Bartlett, University of Chicago, Comer Children's Hospital
- Ms. Wendi Gornick, CHOC Children's Hospital
- Dr. Sarmistha Hauger, Dell Children's Medical Center
- Ms. Michele Honeycutt, Arkansas Children's Hospital
- Dr. W. Charles Huskins, Mayo Clinic Children's Center
- Mr. Raed Khoury, Valley Children's Healthcare
- Dr. Aaron Milstone, Johns Hopkins Children's Center
- Ms. Melissa Royer, Nemours Children's Health
- Dr. Melanie Wellington, University of Iowa Stead Family Children's Hospital
- Ms. Jane Zbinden, St. Louis Children's Hospital

#### Neonatology

- Dr. Rishi Bakshi, C.S. Mott Children's Hospital
- Dr. Beverly Brozanski, St. Louis Children's Hospital
- Dr. Dmitry Dukhovny, Doernbecher Children's Hospital at OHSU
- Dr. Michael Gomez, Orlando Health Winnie Palmer Hospital for Women & Babies
- Dr. Theresa Grover, Children's Hospital Colorado
- Dr. Mina Hanna, Kentucky Children's Hospital
- Dr. Andrew Herman, Levine Children's Hospital
- Dr. Kris Reber, Texas Children's Hospital
- Dr. Yao Sun, UCSF Benioff Children's Hospital
- Dr. Jonathan Swanson, University of Virginia Children's Hospital
- Dr. Barry Weinberger, Cohen Children's Medical Center

#### Nephrology

- Dr. Steve Alexander, Lucile Packard Children's Hospital at Stanford University
- Dr. Paul Brakeman, UCSF Benioff Children's Hospital
- Dr. Michael Braun, Texas Children's Hospital
- Dr. Katherine Dell, Cleveland Clinic Children's Hospital
- Dr. Vikas Dharnidharka, St. Louis Children's Hospital
- Dr. Joseph Flynn, Seattle Children's Hospital
- Dr. Jens Goebel, Helen DeVos Children's Hospital at Spectrum Health
- Dr. Stuart Goldstein, Cincinnati Children's Hospital Medical Center
- Dr. Chryso Katsoufis, Holtz Children's Hospital
- Dr. Alicia Neu, Johns Hopkins Children's Center
- Dr. Jeffrey M. Saland, Mount Sinai Kravis Children's Hospital
- Dr. Michael Somers, Boston Children's Hospital
- Ms. Colleen Tipping, Children's Hospital of Pittsburgh, UPMC
- Dr. Katherine Twombley, Medical University of South Carolina
- Dr. Brad Warady, Children's Mercy Hospitals and Clinics

#### Neurology & Neurosurgery

- Dr. Joshua Chern, Children's Healthcare of Atlanta
- Dr. Bruce Cohen, Akron Children's Hospital
- Dr. Daniel Fain, Helen DeVos Children's Hospital at Spectrum Health
- Dr. Howard Goodkin, University of Virginia Children's Hospital
- Dr. Mark D. Krieger, Children's Hospital Los Angeles
- Dr. David Limbrick, St. Louis Children's Hospital
- Dr. Tobias Loddenkemper, Boston Children's Hospital
- Dr. Mohamad Mikati, Duke Children's Hospital and Health Center
- Dr. Carrie Muh, Maria Fareri Children's Hospital and Westchester Medical Center
- Dr. Karin Muraszko, C.S. Mott Children's Hospital
- Dr. Joseph Piatt, Nemours Children's hospital Delaware
- Dr. Bradley Weprin, Children's Medical Center Dallas
- Dr. Angus Wilfong, Phoenix Children's Hospital

#### **Orthopedics**

- Dr. Michael Albert, Dayton Children's Hospital
- Dr. Laurel Blakemore, Pediatric Specialists of Virginia
- Dr. Sumeet Garg, Children's Hospital Colorado
- Dr. Ryan Goodwin, Cleveland Clinic Children's Hospital
- Dr. J Eric Gordon, St. Louis Children's Hospital
- Ms. Patricia Gust, St. Jude Children's Research Hospital
- Dr. Gregory Hahn, Johns Hopkins All Children's Hospital
- Dr. Lisa Ipp, Hospital for Special Surgery
- Dr. Jennifer Laine, Gillette Children's Specialty Healthcare
- Dr. Charles Mehlman, Cincinnati Children's Hospital Medical Center
- Dr. Greg Mencio, Monroe Carell Jr. Children's Hospital
- Dr. Karl Rathjen, Texas Scottish Rite Hospital for Children-Children's Medical Center Dallas
- Dr. Greg Schmale, Seattle Children's Hospital
- Dr. David Skaggs, Cedars Sinai Guerin Children's

#### Pulmonology & Lung Surgery

- Dr. Scott Bickel, Norton Children's Hospital
- Dr. Casey Burg, Children's Hospital & Medical Center, Omaha
- Dr. John Carl, Cleveland Clinic Children's Hospital
- Dr. Ashley Chadha, Atrium Health Levine Children's Hospital
- Dr. Shailendra Das, Texas Children's Hospital
- Dr. Charles Esther, North Carolina Children's Hospital at UNC
- Dr. Thomas Lahiri, University of Vermont Children's Hospital
- Dr. Brian McGinley, Primary Children's Hospital
- Dr. Christopher Oermann, Children's Mercy Hospitals and Clinics
- Dr. Jonathan Popler, Children's Healthcare of Atlanta
- Dr. Kristie Ross, Rainbow Babies & Children's Hospital
- Dr. Julie Ryu, Rady Children's Hospital-San Diego
- Dr. Gregory S. Sawicki, Boston Children's Hospital
- Dr. Pornchai Tirakitsoontorn, CHOC Children's Hospital

#### Radiology

- Dr. Brian Coley, Cincinnati Children's Hospital Medical Center
- Dr. Kassa Darge, Children's Hospital of Philadelphia
- Dr. Azam Eghbal, CHOC Children's Hospital
- Dr. Jeffrey Miller, Phoenix Children hospital
- Dr. Sheila Moore, Children's Hospital of Pittsburgh, UPMC
- Dr. Cynthia Rigsby, Ann & Robert H. Lurie Children's Hospital of Chicago
- Dr. Douglas Rivard, Children's Mercy Hospitals and Clinics
- Dr. Victor Seghers, Texas Children's Hospital
- Dr. Stephen Simoneaux, Children's Healthcare of Atlanta

#### Urology

- Dr. Glenn Cannon, Children's Hospital of Pittsburgh, UPMC
- Dr. David Chamberlin, Loma Linda University Children's Hospital
- Dr. Pamela Ellsworth, Nemours Children's hospital Florida
- Ms. Kimberley Giles, Le Bonheur Children's Hospital
- Dr. Micah Jacobs, University of Texas Southwestern Medical Center/Children's Health
- Dr. Alison Keenan, Atrium Health Levine Children's Hospital
- Dr. Paul Merguerian, Seattle Children's Hospital
- Dr. Joseph Ortenberg, Children's Hospital New Orleans
- Dr. Lane Palmer, Cohen Children's Medical Center
- Ms. Natalie Plachter, Children's Hospital of Philadelphia
- Dr. Pramod Reddy, Cincinnati Children's Hospital Medical Center
- Dr. Jonathan Routh, Duke Children's Hospital and Health Center
- Dr. Thomas Vates, K. Hovnanian Children's Hospital at Jersey Shore University Hospital

#### **Senior Advisers**

- Dr. F. Sessions Cole, St. Louis Children's Hospital-Washington University
- Dr. Elaine Cox, Riley Hospital for Children at IU Health
- Dr. Phil Saul, West Virginia University Children's Hospital

# Appendix B Glossary of Terms

**3-Tesla magnetic resonance imaging (3T MRI) (A10c).** 3T MRI is a higher powered version of MRI that offers improved morphological and functional studies of the brain compared with the more common field strength of 1.5T.

Continuous video EEG monitoring with pediatric neurology support (F12a). EEG (electroencephalography) is a technology for measuring electrical activity produced by the brain, as recorded from electrodes placed on the scalp. EEG monitoring provides the ability to collect the brain's electrical activity continuously to help detect and diagnose neurological problems.

Cryoablation (B8f, E14b). This process uses cooled, thermally conductive gases and fluids circulated through hollow needles (cryoprobes) that are placed in contact with or inserted into diseased tissue to kill it.

Fast magnetic resonance imaging (MRI) shunt for hydrocephalus (A10g). Fast MRI shunt scans are exams performed in under 10 minutes as an alternative to CT scans to assess ventricular size when shunt tube malfunction is suspected.

Functional magnetic resonance (fMR) (B8b). fMR is a specialized type of MRI scan that measures changes in blood flow related to neural activity.

Genetic testing/counseling (A7d). A genetic testing/counseling service is equipped with the appropriate laboratory facilities and is directed by a physician qualified to advise parents and prospective parents on potential problems in cases of genetic defects. A genetic test is the analysis of human DNA, RNA, chromosomes, proteins, and certain metabolites to detect heritable disease-related genotypes, mutations, phenotypes, or karyotypes for clinical purposes. Genetic tests can have diverse purposes, including the diagnosis of genetic diseases in newborns, children, and adults; the identification of future health risks; the prediction of drug responses; and the assessment of risks to future children.

Hypoplastic Left Heart Syndrome (HLHS) (E40). "A spectrum of congenital cardiovascular malformations with normally aligned great arteries without a common atrioventricular junction, characterized by underdevelopment of the left heart with significant hypoplasia of the left ventricle including atresia, stenosis, or hypoplasia of the aortic or mitral valve, or both valves, and hypoplasia of the ascending aorta and aortic arch." (See: Jacobs, et al. Nomenclature for Pediatric and Congenital Cardiac Care: Unification of Clinical and Administrative Nomenclature - The 2021 International Paediatric and Congenital Cardiac Code (IPCCC) and the Eleventh Revision of the International Classification of Diseases (ICD-11). Cardiology in the Young. 2021 Jul;31(7):1057-1188. doi: 10.1017/S104795112100281X. PMID: 34323211).

Image-guided radiation therapy (IGRT) (A10d). IGRT is an automated system that produces high-resolution x-ray images to pinpoint tumor sites, adjust patient positioning, and generally make treatment more effective and efficient.

Intensity-modulated radiation therapy (IMRT) (A10e). IMRT is a three-dimensional radiation therapy that improves the targeting of treatment delivery in a way that is likely to decrease damage to normal tissues and allows for varying intensities.

Magnetic resonance cholangiopancreatography (MRCP) (D7a). MRCP is a noninvasive approach for imaging the biliary and pancreatic ducts using MRI.

Multidisciplinary pediatric acute pain/sedation service available onsite 24 hours a day (A8d). This service provides monitored anesthesia care and sedation within the hospital (but not within an operating room or PICU), and emergency airway management and acute and chronic pain management for neonates and pediatric patients on a 24-hour basis. A qualified program must have at least an identified medical director (e.g., general pediatrician, pediatric subspecialist, or anesthesiologist) with documented education in conscious sedation and a registered nurse coordinator (or pain management clinical nurse specialist).

Neonatal intensive care unit (NICU) (A7a). A NICU provides mechanical ventilation, neonatal surgery, and special care for the sickest infants, including those with the lowest birth weights (below 1,500 grams), who are born in the hospital or transferred from another institution. The NICU is separate from the newborn nursery. A full-time neonatologist serves as director.

Neurophysiological intraoperative monitoring (H5a). This uses electrophysiological methods, including electroencephalography and electromyography, to monitor parts of the brain, spinal cord, and peripheral nerves during surgery.

Palliative care program (A7e). A palliative care program is organized and staffed for children nearing the end of life or living with lifespan-limiting conditions. The program's purpose is to minimize pain and discomfort, provide emotional and spiritual support for children and their families, assist with financial guidance and social services, and support decision making. Programs must include at least one physician providing direct patient care; a nurse coordinator; and a social worker, certified child life specialist, or pastoral counselor. All program staff must have training in palliative care.

Patient care rooms with protective environment (A7c). The protective environment incorporates the following: air exchanges  $\geq$  12 per hour; central or point-of-use high-efficiency particulate filters, consistent positive air pressure differentials between the patient's room and hallway and continuous monitoring of pressure differentials.

Pediatric anesthesia program available onsite 24 hours a day (A8a). This team provides anesthesia care for children before, during, and after surgery (or other medical procedures). The team provides 24-hour coverage by board-certified anesthesiologists who specialize in pediatric anesthesia.

**Pediatric intensive care unit (PICU) (A7b).** A PICU is staffed with specially trained personnel and has monitoring and specialized support equipment for treating pediatric patients who, because of shock, trauma, or other life-threatening conditions, require intensified, comprehensive observation and care.

Pediatric pain management program available onsite 24 hours a day (A8c). Administered by specially trained physicians and other clinicians, this is a recognized clinical service or program providing specialized medical care, drugs, or therapies for the management of acute or chronic pain and other distressing symptoms among children with an acute illness of diverse causes.

**PET/computed tomography (PET/CT) scanning (A10b).** PET/CT combines the capabilities of PET and CT scanning into a single, integrated device that provides metabolic functional information for monitoring chemotherapy, radiotherapy, and surgical planning.

**Portable CT scanning unit (A10f).** A CT scanning unit that can be moved to where patient care is being provided rather than having a fixed unit in a single location. The portable unit is particularly helpful in delivering care in the ICU, ED, and in operating room environments.

Positron emission tomography (PET) (A10a). PET scanning is a computerized nuclear medicine imaging technology that uses radioactive (positron-emitting) isotopes created in a cyclotron or generator to produce composite images of the brain and heart activity. The scans are sectional images depicting metabolic activity or blood flow rather than anatomy.

Radio frequency ablation (B8f, E14c). This procedure involves placing probes that emit radiofrequency energy into the heart using a catheter. The radiofrequency energy is then used to destroy abnormal electrical activity in the heart tissue.

Rapid-response team (A8a). A rapid response team, also known as a medical emergency team, is distinct from the hospital "code" team. It is available 24 hours a day and has three essential characteristics: (1) the team creates tools and provides staff education for recognizing an acute deterioration in patient condition; (2) the team follows the SBAR (situation, background, assessment, recommendation) method to communicate such a change in condition effectively and efficiently (i.e., escalation policy); and (3) the team responds to the change in condition with the goal of reducing/eliminating preventable "codes."

Rehabilitation program and consultation service (A7f). This program provides either a rehabilitation unit and/or a consultation service within the pediatric program for patients requiring rehabilitation. The program must include a pediatric physiatrist (board certified/board eligible pediatric rehabilitation physician) as the director.

Source localization using high-density EEG and tailored software program/s (H5b). Source localization is the process of identifying the origin or site of seizure activity within the brain. For this item, only EEG testing was included.

Therapeutic meta-iodine-benzyl-guanidine with I-131 radionuclide (I-131 MIBG) (B8a). I-131MIBG is a functional imaging and treatment agent used to help locate, diagnose, and treat tumors of adrenergic tissues, such as neuroblastoma and pheochromocytoma. For this question, we are only interested in therapeutic use of I-131 MIBG to treat cancer.

Three-dimensional mapping (E14a). This includes the use of three-dimensional imaging systems such as MRI or ultrasound to guide ablation probes.

Underrepresented in medicine (A49). Underrepresented in medicine refers to "those racial and ethnic populations that are underrepresented in the medical profession relative to their numbers in the general population" (Association of American Medical Colleges Executive Council on June 26, 2003). This definition is used to guide work by medical schools and healthcare organizations in their efforts to identify and address equity, diversity and inclusion concerns with providers, leaders, patients, and their families to ultimately improve patient care.

Vascular tumor program (A35). This program brings together a multidisciplinary team of specialists to diagnose and ensure the most effective treatment for optimal functioning and quality of life for children with vascular anomalies (tumors or malformations). To be eligible, a program must have at least three of the following: pediatric physicians in Dermatology, Hematology, Diagnostic Radiology, Interventional Radiology, Pediatric Surgery, Pediatric Neuro-interventional

Radiology and Pediatric Orthopedics. The program must also include a nursing clinical coordinator and a medical director.

# **Appendix C**

2024-25 Best Children's Hospitals Rankings by Specialty

Rank	Best Children's Hospital 2024-25: Cancer	Overall Score	Five-year cancer survival	Survival after bone marrow transplant	Ability to prevent infections throughout	nearlity to prevent infections in intensive-care units	Ability to prevent pressure injuries	Number of patients	Number of new patients	Number of surgeries	Nurse staffing	Bone marrow transplant services	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Specialized clinics and programs available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Accredited by FACT	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care	Provides advanced palliative care
1	Cincinnati Children's, Cincinnati	100	15	6	40	15	4	30	3	16	4.2	12	27	12	18	5	22	1	1	32.5	46	21	5	16	16	87	8	7	8
2	Dana-Farber/Boston Children's Cancer and Blood Disorders Center	97.9	15	6	39	14	3	30	3	16	4.2	12	25	12	18	5	22	1	1	41.9	46	21	5	15	16	78	8	7	8
3	Children's Hospital of Philadelphia	95.6	14	6	41		4	30	3	16	4.0	12	26	12	18	5	22	1	1	44.7		18	5	16	16	78	8	7	8
4	Texas Children's Hospital, Houston	95.5	15	5	40	_	5	29	3	16	4.5	12	25	12	18	5	22	1	1	32.2		20	5	16	16	79	8	7	8
5	Children's National Hospital, Washington	94.8	15	6	42		5	29	3	16	4.5	12	26	12	17	5	22	1	1	15.3		21	5	14	14	90	8	7	8
6	Children's Hospital Los Angeles	94.3	14	6	39	15	5	29	3	16	4.2	12	26	12	17	5	21	1	1	21.4		21	5	13	16	90	8	7	6
7	St. Jude Children's Research Hospital, Memphis, Tenn.	93.5	15	6	36		4	30	3	16	5.7	12	26	12	17	5	22	1	1	25.0		21	5	13	16	84	8	7	8
8	Children's Hospital Colorado, Aurora	93.1	15	6	37	10	4	30	3	16	4.4	12	26	12	17	5	22	1	1	18.7		21	5	16	16	82	8	7	8
9	Nationwide Children's Hospital, Columbus, Ohio	91.7	14	6	39	15	4	30	3	16	3.2	12	25	12	18	5	22	1	1	13.9		21	5	15	16	85	8	7	8
10	Seattle Children's Hospital	90.8	12	6	38	_	4	23	3	14	3.8	12	25	12	18	5	20	1	1	24.6		19	5		16	74	8	7	8
11	UCSF Benioff Children's Hospitals, San Francisco and Oakland	90.1	15	6	40		5	27	3	15	4.1	12	25	12	17	5	22	1	1	10.7		21	5	15	16	80	8	7	8
12	Children's Healthcare of Atlanta  Johns Hopkins Children's Center, Baltimore	88.4 87.8	15 15	4	38		5	30 29	3	13 16	5.2 3.6	12 12	27 26	12	18 18	5	22	1	1	21.2 9.2	45 46	21	5	16 12	16 16	75 88	8	7	8
14		84.8	14	6	42	15	5	29	3	15	4.7	12	26	12	17	5	22	1	1	2.0	46	21	5	14	16	90	8	7	8
15	Rady Children's Hospital, San Diego  MSK Kids at Memorial Sloan Kettering Cancer Center, New York	84.6	15	5	36	_	4	28	3	16	6.3	12	25	11	18	5	22	1	1	11.0		20	5	15	16	89	8	7	8
16	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	84.1	14	6	39	15	4	20	3	10	4.5	12	24	12	17	5	21	1	1	9.3	43	17	5	13	14	70	8	7	7
17	UPMC Children's Hospital of Pittsburgh	83.3	14	6	39	15	4	30	3	13	3.1	11	25	12	17	5	22	1	1	4.2	45	21	5	15	14	89	8	7	8
18	Children's Medical Center Dallas	82.8	15	6	40	10	5	30	3	16	4.4	12	25	12	18	5	22	1	1	2.9	44	19	5	16	16	79	8	7	8
19	Ann and Robert H. Lurie Children's Hospital of Chicago	81.7	14	5	37	15	2	30	3	15	3.1	12	25	12	18	5	22	1	1	8.2	45	21	5	15	16	77	8	7	8
	St. Louis Children's Hospital-Washington University	80.3	15	6	36		4	12		13	3.6	12	25	12	18	5	22	1	1	3.5	45	21	5		16	73	8	7	8
21	Riley Hospital for Children at IU Health, Indianapolis	79.6	15	6	31	_	5	28	3	15	3.9	12	26	11	16	5	18	1	1	1.3	46	21	5	16	16	80	8	7	8
22	Cohen Children's Medical Center, New Hyde Park, N.Y.	79.5	15	6	39		5	14		9	4.5	11	24	12	18	5	22	1	1	0.8	46	21	5	10	9	90	8	7	8
23	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	79.3	14	6	33		2	29	3	16	6.0	12	25	12	18	5	21	1	1	3.5	45	19	5	12	16	82	8	7	8
24	Children's Cancer HospU. of Texas M.D. Anderson Cancer Ctr., Houston	79.0	13	6	36	13	5	25	3	13	4.0	12	24	11	18	5	22	1	1	3.5	44	18	5	15	15	76	8	7	8
25	Duke Children's Hospital and Health Center, Durham, N.C.	76.9	15	6	37	11	3	18	2	11	3.5	12	23	12	17	5	19	1	1	3.1	44	17	5	13	14	87	8	7	8
25	Nemours Children's Hospital-Delaware, Wilmington	76.9	14	6	40	13	3	12	2	13	3.3	12	26	12	18	5	22	1	1	1.0	45	19	5	14	16	84	8	7	8
27	New York-Presbyterian Children's Hospital-Columbia and Cornell	76.1	12	6	38	15	4	17	2	15	3.5	12	25	11	18	5	21	1	1	3.8	43	17	5	12	16	78	8	7	7
28	North Carolina Children's Hospital at UNC, Chapel Hill	75.9	13	6	36	14	4	25	2	14	3.9	12	23	12	17	5	20	1	1	0.8	46	21	5	13	12	85	8	7	8
29	Children's Wisconsin Hospital, Milwaukee	75.2	15	6	33	14	3	18	3	8	4.4	11	24	12	16	5	21	1	1	2.6	43	17	5	11	13	56	8	7	8
30	Rainbow Babies and Children's Hospital, Cleveland	74.2	10	6	41	15	5	24	2	7	4.1	11	26	12	18	5	21	1	1	1.3	45	21	5	11	15	90	8	7	8
31	Cleveland Clinic Children's Hospital	72.6	10	5	41	14	4	27	3	16	5.0	10	25	12	18	5	22	1	1	1.4	46	21	5	13	16	90	8	7	8
32	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	72.4	15	4	37	12	5	30	3	16	4.0	11	23	12	17	5	22	1	1	2.1	43	17	5	12	15	79	8	7	8
33	University of Chicago Comer Children's Hospital	71.4	15	5	35	13	4	15	2	7	4.4	11	26	12	16	5	21	1	1	1.6	45	19	5	9	13	66	8	7	8
34	Arkansas Children's Hospital, Little Rock	71.1	13	6	37	15	5	10	2	14	3.3	11	27	12	17	5	22	1	1	0.5	42	18	5	10	7	87	8	7	7
35	Penn State Health Children's Hospital, Hershey, Pa.	71.0	15	6	31		5	11	2	8	2.8	8	23	12	15	5	20	1	1	0.4	44	21	5	14	8	70	8	7	8
36	Levine Children's Hospital, Charlotte, N.C.	70.3	14	5	40	11	4	18	3	9	3.6	12	25	12	16	5	19	1	1	0.4	46	21	5	0	14	90	8	7	8
37	Cook Children's Medical Center, Fort Worth, Texas	70.0	14		34		5	25		12	3.6		23	12	16	5	20	1	1	0.5		21	5	1	14	64	8	7	8
38	MUSC Shawn Jenkins Children's Hospital, Charleston, S.C.	69.8	14		37		3	17	2	7	3.6	11	24	12	16	5	21	1	1	0.6		21	5	8	9	87	8	7	8
39	Children's Mercy Kansas City Hospital, Kansas City, Mo.	69.2	10	6	34	13	4	18	3	9	4.0	12	26	12	17	5	22	1	1	1.4	41	21	5	12	16	80	8	7	8
40	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	68.4	13	4	33		2	30	3	15	3.3	12	24	12	17	5	21	1	1	1.6	46	21	4	12	16	74	8	7	8
41	University of Iowa Stead Family Children's Hospital, Iowa City	67.1	12	6	31		5	26	2	12	3.6	8	25	12	17	5	20	1	1	0.4	41	21	5	5	13	90	8	7	8
42	Corewell Health Helen DeVos Children's Hospital, Grand Rapids, Mich.	66.3	11	6	34		3	11	3	9	3.3	11	24	12	16	5	20	1	1	0.1	44	21	5	6	12	62	8	7	8
43	Wolfson Children's Hospital, Jacksonville, Fla.  Mayor Clinic Children's Conton Rechaster Minn	66.0	13	6	29		3	11	2	5	3.0	11	24	12	18	5	20	1	1	0.5	44	18	5	7	12	84	8	7	8
44	Mayo Clinic Children's Center, Rochester, Minn.  Children's Hospital of Alahama at LIAB, Birmingham	65.4	11	4	35	15 11	5	13 30	3	14	4.4	11	25 25	12	17 17	5	19 21	0	1	1.8	46 45	21 16	5	12	13	90 75	8	7	8
45	Children's Hospital of Alabama at UAB, Birmingham  Norton Children's Hospital, Louisville, Ky.	65.3	14	6	40		5	23	2	9	3.9	10	25	12	17	5	22	0	1	0.3	45	20	5	10	16	90	8	7	8
47	CHOC Children's Hospital, Louisville, ky.  CHOC Children's Hospital, Orange, Calif.	63.6	11	5	36		5	14		7	3.9	12	25	12	13	5	22	1	1	1.9	42	21	5	9	15	54	8	7	8
48	SSM Health Cardinal Glennon Children's Hospital-St. Louis University	63.5	13	6	37	13	5	7	2	5	3.9	10	21	10	16	4	22	1	1	0.5	34	21	5	6	5	84	8	7	8
49	UF Health Shands Children's Hospital, Gainesville, Fla.	63.4	12	5	35		5	16	2	5	2.9	11	24	10	16	5	20	1	1	0.3	45	16	5	8	15	74	8	7	7
	UCLA Mattel Children's Hospital, Los Angeles	62.7	12	5	25	9	4	13	2	9	4.0	8	21	11	17	5	20	1	1	2.6	46	20	5	10	14	78	8	7	8
50	COD deco. Crimaren o mospicar, 200 Angeles	02.7	14		123	1 -				,	1.0			**	-/	J	20	4		2.0	-70	20	,	10	17	,,,		⊥′_	ڀ

Rank	Best Children's Hospital 2024-25: Cardiology & Heart Surgery	Overall Score	Survival after congenital heart surgery	Survival and prevention of complications after certain complex heart procedures	Surviva	Survival after heart transplant	Median post-operative length of stay for patients in STAT categories 1-3	Ability to prevent hospital	Ability to prevent infections in intensive-care units	Ability to prevent pressure injuries	Number of surgeries	Number of the high complexity heart surgeries		Number of Norwood or hybrid surgeries	Nurse staffing	Congenital heart program	Adult congenital heart program	Heart transplant program	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
1	Texas Children's Hospital, Houston	100	5	12	18	6	4	48	4	5	15	412	18	12	4.5	24	10	11	17	10	8	23	1	44.4	60	18	5	10	5	79		7
2	MUSC Children's Heart Network of South Carolina, Charleston	91.7	5	17	18	6	7	44	5	3	11	213	16	8	3.6	24	10	9	17	10	8	23	1	7.2	58	19	5	4	5	87		7
3	Rady Children's Hospital, San Diego	91.1	5	13	17	6	6	49	5	5	10	111	15	5	4.7	24	10	11	17	10	8	23	1	4.2	60	19	5	8	5	90		7
4	Duke Children's Hospital and Health Center, Durham, N.C.	90.8	3	16	16 16	5 6	6	46	5	3	14	259	16 18	12	3.5 4.2	24	10	12	17 18	10	8	22	1	4.5	60	15 19	5	10	5	87 87		7
6	Cincinnati Children's & Kentucky Children's Hosp. Joint Heart Program  Children's Hospital Colorado, Aurora	85.5 83.9	4	13	18	6	6	46	2	4	13	271 257	18	12	4.4	24	10	11	16	10	8	23	1	14.8	60	19	5	10	5	82		7
7	Levine Children's Hospital, Charlotte, N.C.	82.5	5	13	16	5	6	48	5	4	11	150	16	8	3.6	24	10	10	17	10	8	21	1	1.6	59	19	5	0	5	90		7
8	Nemours Children's Hospital-Delaware, Wilmington	81.4	5	13	16	6	5	47	5	3	10	106	10	7	3.3	23	8	8	16	10	8	23	1	0.7	60	17	5	9	5	84		7
9	Cleveland Clinic Children's Hospital	80.5	4	15	14	5	7	49	4	4	13	162	16	4	5.0	24	10	10	17	10	8	22	1	2.5	60	19	5	9	5	90		7
10	Loma Linda University Children's Hospital, Loma Linda, Calif.	80.0	5	12	16	6	9	37	5	5	10	102	12	4	3.6	24	10	10	17	10	8	18	1	1.0	58	19	5	6	5	85	-	7
11	Boston Children's Hospital	79.2	3	10	17	5	5	47	4	3	17	595	18	10	4.2	24	10	9	17	10	8	22	1	54.2	60	19	5	9	5	78		7
12	Children's Healthcare of Atlanta	78.3	3	12	16	6	6	46	3	5	15	339	18	11	5.2	24	10	10	18	10	8	22	1	16.9	59	19	5	9	5	75	-	7
12	Children's Hospital Los Angeles	78.3	3	13	14	5	7	48	5	5	15	377	15	10	4.2	24	9	11	17	10	8	21	1	13.4	59	19	5	6	5	90		7
14	UPMC Children's Hospital of Pittsburgh	77.3	4	5	14	5	5	48	5	4	11	149	15	7	3.1	24	10	12	17	10	8	22	1	15.1	60	19	5	9	5	89		7
15	Children's Medical Center Dallas	76.6	4	14	10	4	6	48	4	5	12	220	14	9	4.4	24	10	11	17	10	8	22	1	3.6	60	17	5	10	5	79	8	7
15	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	76.6	4	13	16	6	6	42	5	2	13	266	14	9	3.3	24	9	11	17	10	8	21	1	5.0	60	19	4	8	5	74	8	7
17	New York-Presbyterian Children's Hospital-Columbia and Cornell	76.0	3	11	18	5	6	47	5	4	15	342	17	8	3.5	24	10	13	17	9	8	22	1	17.2	57	15	5	9	5	78	8	7
18	Children's Hospital of Philadelphia	75.9	3	8	17	4	5	49	3	4	15	402	18	12	4.0	24	10	10	18	10	8	22	1	41.5	60	16	5	10	5	78	8	7
19	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	75.6	3	10	18	6	6	42	3	2	14	326	17	11	6.0	24	10	11	17	10	8	22	1	24.6	59	17	5	8	5	82	8	7
20	Seattle Children's Hospital	73.8	3	14	18	6	6	46	4	4	13	178	13	7	3.8	24	10	11	17	10	8	21	1	8.2	58	17	5	10	5	74	8	7
21	Nationwide Children's Hospital, Columbus, Ohio	73.6	3	9	17	5	7	48	5	4	11	180	16	7	3.2	24	10	10	16	10	8	23	1	10.1	60	19	5	10	5	85	8	7
22	Children's Memorial Hermann Hospital, Houston	73.1	5	14	16	3	4	44	4	4	13	265	11	6	3.5	23	10	4	15	10	8	22	1	1.4	56	14	5	7	5	85	8	7
23	Arkansas Children's Hospital, Little Rock	71.5	3	20	12	6	6	46	5	5	10	95	16	5	3.3	24	9	10	18	10	8	23	1	1.4	60	16	5	7	5	87	8	7
24	Ann and Robert H. Lurie Children's Hospital of Chicago	68.5	3	11	14	5	6	45	5	2	11	163	16	4	3.1	23	9	13	17	10	8	22	1	13.0	60	19	5	7	5	77	8	7
25	Children's Hospital of Alabama at UAB, Birmingham	67.8	5	14	17	6	7	40	1	4	12	192	16	11	4.0	24	7	9	15	10	8	21	0	1.5	56	14	5	7	5	75	8	4
26	Children's Mercy Kansas City Hospital, Kansas City, Mo.	67.7	3	9	18	6	6	42	5	4	12	197	13	9	4.0	23	9	11	16	10	8	23	1	2.4	60	19	5	9	5	80		7
27	Riley Hospital for Children at IU Health, Indianapolis	67.5	3	9	16	5	6	39	5	5	13	301	15	9	3.9	24	10	8	18	9	8	22	1	4.5	60	19	5	10	5	80	8	7
28	Mayo Clinic-Children's Minnesota Cardiovasc. Collaborative, Rochester	67.4	3	12	12	3	7	44	5	5	16	238	17	8	4.4	24	10	12	17	10	8	22	1	3.1	60	19	5	5	5	90		7
29	Hassenfeld Children's Hospital at NYU Langone, New York	66.2	4	19	18	0	6	45	5	4	10	119	13	5	3.5	23	10	8	15	10	8	21	1	1.4	54	13	5	6	5	73		7
30	Dell Children's Medical Center, Austin, Texas	66.0	4	12	14	2	6	44	5	5	11	171	12	5	4.1	24	10	10	18	9	8	22	1	1.2	58	19	5	2	5	84		7
31	Ochsner Hospital for Children, New Orleans	65.5	3	17	18	6	5	42	5	5	10	82	12	4	2.9	24	9	8	16	9	8	20	1	0.8	58	16	5	9	5	90		7
32	SSM Health Cardinal Glennon Children's Hospital-St. Louis University	64.2	3	16	16	6 5	7	45	5	5	10		9	6	3.9	22	8	5	17	8	8	22	1	0.5	54	19	5	5	5	84		7
33	Virginia Congenital Cardiac Collaborative, Charlottesville UCSF Benioff Children's Hospitals, San Francisco and Oakland	63.8 61.0	2	12	16 18	4	5	47	4	5	13	127 226	13	8	2.9 4.1	24	9	11 8	17 17	10	8	21	1	5.5	59 59	19 19	5	8	5	89		7
35	Children's National Hospital, Washington	60.4	2	10	11	3	6	49	5	5	11	173	15	5	4.5	23	10	10	16	10	8	23	1	8.7	60	19	5	9	5	90		7
35	UCLA Mattel Children's Hospital, Los Angeles	60.4	3	12	18	6	5	34	3	4	8	169	14	8	4.0	24	10	12	17	9	8	19	1	4.1	59	18	5	7	5	78	_	7
37	Cook Children's Medical Center, Fort Worth, Texas	60.3	4	15	18		5	44	5	5	12	222	14	7	3.6	21	9	NA	14	10	8	22	1	0.5	54	19	5	3	4	64		7
38	UF Health Shands Children's Hospital, Gainesville, Fla.	59.3	3	10	18	4	5	44	5	5	9	127	11	10	2.9	24	10	13	17	8	8	20	1	2.6	59	14	5	6	5	74		7
39	Johns Hopkins Children's Center, Baltimore	58.7	3	11	12	6	4	45	4	5	10	59	6	3	3.6	23	9	6	17	10	8	22	1	2.0	59	18	5	8	5	88		7
40	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	57.7	1	7	10	6	6	46	5	4	16	363	17	7	4.5	24	10	13	17	10	8	23	1	31.2	60	15	5	7	5	70		7
41	Le Bonheur Children's Hospital, Memphis, Tenn.	57.5	3	5	13	5	7	45	5	5	10	126	11	6	3.0	24	10	10	17	7	8	22	1	2.2	60	19	5	6	5	76	8	7
42	Rainbow Babies and Children's Hospital, Cleveland	56.5	3	16		NA	4	47	5	5	10	42	11	4	4.1	17	9	NA	15	10	8	21	1	0.8	58	19	5	6	5	90	8	7
43	Advocate Children's Heart Institute, Oak Lawn, Ill.	56.3	3	14	16	NR	6	40	5	5	12	178	13	7	4.0	23	10	1	16	9	8	21	1	1.7	59	18	5	4	5	77	8	7
44	Oklahoma Children's Hospital OU Health, Oklahoma City	53.7	5	12	16	NR	6	44	5	3	12	193	8	9	3.3	22	7	3	15	8	8	19	0	0.3	54	19	5	3	3	54	8	5
45	Nicklaus Children's Hospital, Miami	53.1	4	12	18	NA	5	38	5	3	10	137	11	6	2.8	20	6	NA	14	9	7	21	1	1.3	57	16	5	7	5	70	8	7
46	Johns Hopkins All Children's Hospital, St. Petersburg, Fla.	53.0	3	17	6	3	5	48	4	4	10	44	10	2	4.2	19	8	7	17	10	8	21	1	0.7	57	16	5	4	5	77	8	7
47	University of Iowa Stead Family Children's Hospital, Iowa City	52.4	3	13	14	3	6	38	2	5	10	64	14	5	3.6	24	10	9	17	10	8	17	1	0.7	58	19	5	5	5	90	8	7
48	CHOC Children's Hospital, Orange, Calif.	52.3	4	19	6	NA	6	42	3	5	10	53	10	1	3.7	20	8	NA	14	10	8	20	1	0.9	55	19	5	4	5	54	8	7
49	Phoenix Children's Hospital	50.4	2	9	12	5	6	48	5	2	14	216	16	7	3.3	24	10	10	16	10	8	22	0	1.9	60	19	5	7	5	87	8	7
50	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	47.9	1	9	14	5	5	46	4	5	13	221	18	11	4.0	24	10	11	17	10	8	22	1	4.2	56	15	5	7	5	79	8	7
_	rings are based on all of the above massiving.	17.5			17			ro I	_	,	1 43	-21	10	-11	1.0	47	10	11	1/	10	J		1	1.2	50	13	,	,	J	,,		

Rank	Best Children's Hospital 2024-25: Diabetes & Endocrinology  Hospital	Overall Score	Success in managing diabetes	Success in hypo and hyper-thyroid management	Ability to prevent infections throughout hospital	Number of patients	Number of procedures	Nurse staffing	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Specialized clinics and programs available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	0	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
1	Children's Hospital of Philadelphia	100	74	7	37	34	14	4.0	20	10	10	25	14	1	40.1	121	17	5	9	3	78	8	7
2	Cincinnati Children's, Cincinnati	98	63	9	36	34	14	4.2	19	10	10	26	14	1	20.6	122	20	5	9	3	87	8	7
3	Boston Children's Hospital	94.5	64	8	37	34	12	4.2	18	10	9	26	14	1	32.2	108	20	5	8	3	78	8	7
4	Texas Children's Hospital, Houston	93.3	58	9	36	34	14	4.5	18	10	10	26	14	1	17.2	122	19	5	9	3	79	8	7
5	Children's Hospital Colorado, Aurora	90.1	60	7	34	34	9	4.4	18	10	10	26	14	1	24.9	111	20	5	9	3	82	8	7
6	Children's Hospital Los Angeles	90.0	73	6	36	34	13	4.2	19	10	10	26	13	1	13.7	110	20	5	7	3	90	8	7
	Children's National Hospital, Washington	89.2	62	8	37	34	14	4.5	18	10	9	26	14	1	12.0	113	20	5	8	3	90	8	7
8	UPMC Children's Hospital of Pittsburgh	88.9	66	7	36	34	14	3.1	19	10	10	25	14	1	13.2	117	20	5	8	3	89	8	7
9	Rady Children's Hospital, San Diego	88.0	71	9	37	34	14	4.7	18	10	10	25	14	1	4.4	114	20	5	6	2	90	8	7
10	Seattle Children's Hospital	81.9	58	8	34	34	14	3.8	19	10	10	26	14	1	7.8	116	18	5	9	2	74	8	7
	Ann and Robert H. Lurie Children's Hospital of Chicago	80.9	64	7	33	34	13	3.1	17	10	10	23	13	1	8.1	111	20	5	8	3	77	8	7
12	Rainbow Babies and Children's Hospital, Cleveland	79.8 78.4	57 51	9	36 36	28 34	10	4.1 3.2	19 16	10	10 10	26 26	13 14	1	3.8 5.9	116 116	20	5	9	3	90	8	7
14	Nationwide Children's Hospital, Columbus, Ohio  Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	77.7	66	5	34	32	12	4.5	19	10	10	25	14		11.5	94	16	5	7	3	70	8	7
14	Norton Children's Hospital, Louisville, Ky.	77.7	68	9	35	33	14	3.9	18	10	10	25	14	0	0.4	118	19	5	5	3	90	8	7
16	North Carolina Children's Hospital at UNC, Chapel Hill	77.6	65	8	34	31	13	3.9	18	10	10	21	13	1	2.4	117	20	5	6	1	85	8	7
17	New York-Presbyterian Children's Hospital-Columbia and Cornell	77.2	64	8	35	31	12	3.5	16	9	10	24	14	1	5.3	98	16	5	8	2	78	8	7
18	Riley Hospital for Children at IU Health, Indianapolis	77.0	55	8	27	32	10	3.9	19	9	10	26	12	1	7.4	112	20	5	9	3	80	8	7
19	Johns Hopkins Children's Center, Baltimore	76.9	52	9	34	30	11	3.6	15	10	10	20	14	1	6.4	116	19	5	6	2	88	8	7
20	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	76.5	58	9	31	32	12	6.0	17	10	10	21	13	1	3.1	112	18	5	8	2	82	8	7
21	Children's Medical Center Dallas	76.3	47	9	36	33	14	4.4	17	10	10	26	14	1	5.2	109	18	5	9	2	79	8	7
22	UCSF Benioff Children's Hospitals, San Francisco and Oakland	74.7	47	7	37	33	9	4.1	18	10	10	22	14	1	10.3	106	20	5	8	2	80	8	7
23	Children's Mercy Kansas City Hospital, Kansas City, Mo.	73.6	55	9	31	34	8	4.0	18	10	9	24	14	1	2.7	105	20	5	8	2	80	8	7
24	Arnold Palmer Hospital for Children, Orlando, Fla.	72.9	65	9	29	32	12	4.2	17	10	10	25	13	1	0.1	116	20	5	1	1	87	8	7
25	University of Iowa Stead Family Children's Hospital, Iowa City	71.8	55	9	28	34	12	3.6	16	10	10	26	13	1	1.7	107	20	5	4	3	90	8	7
26	CHOC Children's Hospital, Orange, Calif.	71.7	65	7	32	34	12	3.7	18	10	10	21	14	1	2.3	105	20	5	4	2	54	8	7
26	Cleveland Clinic Children's Hospital	71.7	51	9	37	31	14	5.0	16	10	10	23	14	1	0.9	105	20	5	4	2	90	8	7
28	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	71.4	64	8	30	32	14	3.3	17	10	10	21	13	1	1.1	110	20	4	7	1	74	8	7
29	St. Louis Children's Hospital-Washington University	71.3	43	9	34	34	13	3.6	18	10	10	24	14	1	4.3	101	20	5	7	3	73	8	7
29	Yale New Haven Children's Hospital, New Haven, Conn.	71.3	51	6	31	32	7	3.6	17	10	10	26	13	1	9.5	113	17	5	5	3	88	8	7
31	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	71.2	62	7	34	32	10	4.0	17	10	9	26	14	1	2.7	97	16	5	6	2	79	8	7
32	Children's Healthcare of Atlanta	69.2	50	7	34	34	12	5.2	19	10	10	17	14	1	1.7	116	20	5	8	2	75	8	7
33	UF Health Shands Children's Hospital, Gainesville, Fla.	68.8	49	8	32	28	10	2.9	17	9	10	25	13	1	4.3	113	15	5	6	3	74	8	7
34	Nemours Children's Hospital-Delaware, Wilmington	68.4	59	7	36	29	11	3.3	17	10	8	26	14	1	1.5	102	18	5	7	1	84	8	7
	Nemours Children's Hospital-Florida, Orlando	68.2	55	8	37	34	14	4.2	19	10	10	26	14	0	1.3	120	17	5	3	1	85	8	7
36	Cohen Children's Medical Center, New Hyde Park, N.Y.	68.1	49	7	35	34	13	4.5	18	10	10	25	14	1	1.3	115	20	5	6	1	90	8	7
36 38	Phoenix Children's Hospital  Duke Children's Hospital and Health Center, Durham, N.C.	68.1 67.4	47 53	9	36 35	34	14	3.3	18 17	10	10	26 26	14	1	2.2	117 110	20 16	5	6 7	2	87 87	8	7
39	Johns Hopkins All Children's Hospital, St. Petersburg, Fla.	67.4	43	9	36	32	11	4.2	18	10	10	24	14	1	0.6	111	17	5	2	3	77	8	7
	Mount Sinai Kravis Children's Hospital, New York	67.0	52	9	24	27	12	3.4	18	9	9	26	14	1	2.2	111	16	5	5	2	76	8	7
	Wolfson Children's Hospital, Jacksonville, Fla.	66.8	63	7	28	28	10	3.0	15	10	10	21	13	1	2.1	105	17	5	4	2	84	8	7
42	Mayo Clinic Children's Center, Rochester, Minn.	65.7	57	5	32	26	14	4.4	16	10	10	26	13	1	1.3	113	20	5	4	2	90	8	7
	Akron Children's Hospital, Akron, Ohio	65.6	53	9	34	33	11	3.3	18	10	10	19	14	1	0.4	100	20	5	1	1	90	8	7
44	Cook Children's Medical Center, Fort Worth, Texas	65.0	52	7	32	33	11	3.6	18	10	10	24	13	1	2.2	110	20	5	1	2	64	8	7
	Hackensack Meridian Health Sanzari & Hovnanian Children's Hosps., N.J.	64.8	63	8	34	29	6	2.8	16	10	10	17	14	1	0.3	105	18	5	2	0	90	8	7
46	Corewell Health Helen DeVos Children's Hospital, Grand Rapids, Mich.	64.4	61	8	31	30	13	3.3	15	10	10	16	12	1	0.0	104	20	5	2	1	62	8	7
47	Children's Wisconsin Hospital, Milwaukee	62.5	47	9	30	32	10	4.4	14	10	10	17	14	1	1.0	95	16	5	7	2	56	8	7
.,								_		-					_				-	_	-		_
48	Hassenfeld Children's Hospital at NYU Langone, New York	62.4	62	4	34	33	10	3.5	17	10	10	20	13	1	1.6	101	14	5	6	2	73	8	7
	Hassenfeld Children's Hospital at NYU Langone, New York University of Virginia Children's Hospital, Charlottesville	62.4 62.3	62 47	6	34 35	33 27	10	3.5 2.9	17 17	10	10	26	13	1	0.9	101 107	20	5	5	3	73 89	8	7

Rank	Best Children's Hospital 2024-25: Gastroenterology & GI Surgery  Hospital	Overall Score	Success of certain GI-related treatments	Survival after liver transplant	Ability to prevent pressure injuries	Ability to prevent infections throughout hospital	Ability to prevent infections in intensive-care units	Number of patients	Number of surgeries	Number of tests and noninvasive procedures	Nurse staffing	Liver transplant program	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Specialized clinics and programs available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
1	Cincinnati Children's, Cincinnati	100	6	5	4	46	5	27	12	22	4.2	4	10	11	19	13	13	1	39.9	40	20	5	9	7	87	8	7
2	Boston Children's Hospital	99.4	6	6	3	44	4	27	12	22	4.2	4	9	11	19	13	13	1	40.7	42	20	5	8	7	78	8	7
3	Children's Hospital of Philadelphia	98.7	6	6	4	46	3	27	12	22	4.0	4	10	11	19	13	13	1	36.5	42	17	5	9	7	78	8	7
4	Nationwide Children's Hospital, Columbus, Ohio	98.2	6	5	4	46	5	27	12	22	3.2	2	9	11	19	13	13	1	25.3	42	20	5	8	7	85	8	7
5	Texas Children's Hospital, Houston	97.5	6	5	5	46	4	27	12	20	4.5	4	9	11	18	13	13	1	23.8	42	19	5	9	7	79	8	7
6	Children's Hospital Los Angeles	93.7	6	5	5	45	5	27	11	19	4.2	4	10	11	19	13	12	1	14.9	42	20	5	7	7	90	8	7
7	Children's Hospital Colorado, Aurora	93.0	6	5	4	44	2	27	12	20	4.4	4	9	11	19	13	13	1	27.9	42	20	5	9	7	82	8	7
8	Children's National Hospital, Washington	91.0	6	6	5	48	5	26	12	16	4.5	4	9	11	16	13	13	1	7.5	42	20	5	7	7	90	8	7
9	Seattle Children's Hospital	89.1	6	6	4	43	4	25	10	20	3.8	4	9	11	18	13	13	1	12.2	41	18	5	9	7	74	8	7
10	Children's Medical Center Dallas	88.9	6	6	5	47	4	27	11	20	4.4	4	9	11	19	13	13	1	7.5	42	18	5	8	7	79	8	7
11	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	85.0	6	5	4	42	5	26	11	20	4.5	4	9	11	18	13	13	1	10.1	41	16	5	7	7	70	8	7
12	UPMC Children's Hospital of Pittsburgh	84.5	6	5	4	44	5	24	10	15	3.1	4	10	11	19	11	13	1	10.4	39	20	5	8	7	89	8	7
13	Children's Healthcare of Atlanta	82.9	6	5	5	42	3	27	12	20	5.2	4	9	11	18	12	13	1	9.5	41	20	5	8	7	75	8	7
13	New York-Presbyterian Children's Hospital-Columbia and Cornell	82.9	6	6	4	43	5	26	11	21	3.5	4	9	10	19	13	13	1	4.9	40	16	5	8	7	78	8	7
15	Riley Hospital for Children at IU Health, Indianapolis	80.9	6	5	5	38	5	27	10	22	3.9	4	10	10	19	13	11	1	4.5	42	20	5	8	7	80	8	7
16	Ann and Robert H. Lurie Children's Hospital of Chicago	80.4	6	3	2	43	5	26	12	21	3.1	4	9	11	19	13	13	1	12.1	42	20	5	7	7	77	8	7
17	Cleveland Clinic Children's Hospital	79.4	6	6	4	43	4	25	10	20	5.0	4	9	11	19	13	13	1	2.0	42	20	5	7	6	90	8	7
18	Children's Wisconsin Hospital, Milwaukee	77.2	6	6	3	40	4	25	11	20	4.4	3	9	11	19	13	13	1	3.8	41	16	5	7	7	56	8	7
19	SSM Health Cardinal Glennon Children's Hospital-St. Louis University	76.9	6	6	5	44	5	23	10	17	3.9	2	9	9	19	13	13	1	0.8	41	20	5	4	7	84	8	7
20	St. Louis Children's Hospital-Washington University	76.8	6	5	4	41	4	25	11	17	3.6	4	9	11	17	13	13	1	4.3	42	20	5	7	7	73	8	7
21	Children's Mercy Kansas City Hospital, Kansas City, Mo.	76.5	6	4	4	41	5	25	11	20	4.0	4	9	11	19	13	13	1	3.7	40	20	5	8	7	80	8	7
21	UCSF Benioff Children's Hospitals, San Francisco and Oakland	76.5	5	5	5	48	4	26	11	15	4.1	4	10	11	18	13	13	1	5.3	41	20	5	8	7	80	8	7
23	Johns Hopkins Children's Center, Baltimore	75.5	6	4	5	42	4	27	11	18	3.6	4	9	11	18	13	13	1	4.9	41	19	5	6	7	88	8	7
24	UCLA Mattel Children's Hospital, Los Angeles	71.5	6	6	4	34	3	22	10	16	4.0	4	9	10	19	13	11	1	3.8	40	19	5	5	7	78	8	7
	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	70.9	6	5	2	36	5	26	10	16	3.3	4	9	11	18	13	12	1	2.8	40	20	4	7	7	74	8	7
25	Levine Children's Hospital, Charlotte, N.C.	70.9	6	6	4	43	5	23	10	18	3.6	2	9	11	16	13	12	1	0.4	38	20	5	0	7	90	8	7
	Phoenix Children's Hospital	70.8	6	5	2	43	5	25	10	19	3.3	4	9	11	18	13	13	0	2.7	42	20	5	6	7	87	8	7
28	Mayo Clinic Children's Center, Rochester, Minn.	70.5	6	4	5	40	5	19	9	22	4.4	4	7	11	19	13	12	1	1.6	40	20	5	5	7	90		7
29	Children's Memorial Hermann Hospital, Houston	70.3	6	6	4	38	4	17	8	13	3.5	3	9	11	17	13	13	1	1.2	41	15	5	7	7	85	8	7
30	MUSC Shawn Jenkins Children's Hospital, Charleston, S.C.	69.7	6	5	3	43	5	16	10	15	3.6	4	9	11	17	13	13	1	0.7	40	20	5	3	7	87	8	7
	Duke Children's Hospital and Health Center, Durham, N.C.	69.5	6	5	3	41	5	24	10	16	3.5	4	8	11	19	13	12	1	0.7	40	16	5	6	6	87	8	7
32	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	69.2	5	5	5	42	4	26	11	21	4.0	4	9	11	19	13	13	1	2.9	41	16	5	5	7	79	8	7
33	Nemours Children's Hospital-Delaware, Wilmington	66.7	5	6	3	45	5	18	10	9	3.3	4	9	11	14	13	13	1	1.0	40	18	5	7	6	84	8	7
34	North Carolina Children's Hospital at UNC, Chapel Hill	64.2	6	3	4	43	4	16	10	16	3.9	2	10	11	19	13	12	1	1.1	40	20	5	5	7	85	8	7
35	AdventHealth for Children, Orlando, Fla.	63.7	6	5	4	33 29	5	18	10	14	3.5	4	9	10	17	11	13	1	0.3	41	20	5	5	7	68 76	8	7
36	Mount Sinai Kravis Children's Hospital, New York	63.4	6	NR	4 5		5	22	11	14	3.4	4	9	10	18	9	13	1	1.9	37	16	5	5	7		8	7
37 38	Rady Children's Hospital, San Diego	62.8	5	5	2	46 37	3	26 27	11	15 15	6.0	4	8	11	17 18	13	13	1	3.1	42 39	20 18	5	7	6	90 82	8	7
39	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor  Yale New Haven Children's Hospital, New Haven, Conn.	61.8		4	5	41	1	21	10	17	3.6	3	10	11	19	13	12		1.7	40	17	5	5	7	88	8	7
40	. , , ,	60.3	6	6	4	37	1	26	11	20	4.0	3	10	11	19	13	13	0	2.2	39	15	5	7	7	75	8	4
	Children's Hospital of Alabama at UAB, Birmingham  Cohon Children's Medical Contor, New Hydo Park, N.Y.			NA	5	45		21				NA NA	9				13		0.7		20	5	5	7	90	8	7
41	Cohen Children's Medical Center, New Hyde Park, N.Y.  Rainbow Babies and Children's Hospital, Cleveland	60.0 59.4	6	NA NA	5	45	5	19	12 9	18 18	4.5	NA NA	9	11	18	13 13	12	1	1.5	42 41	20	5	4	7	90	8	7
43	Le Bonheur Children's Hospital, Memphis, Tenn.	57.8	5	4	5	41	5	19	8	13	3.0	3	9	8	17	12	13	1	1.2	39	20	5	5	7	76	8	7
43	University of Virginia Children's Hospital, Charlottesville	57.8	5	5	3	41	4	18	9	13	2.9	4	9	11	18	12	12	1	0.9	39	20	5	5	5	89	8	7
45	Children's Hospital of Michigan, Detroit	57.2	6	6	5	31	4	25	6	14	2.9	2	9	11	15	13	13	0	0.9	35	19	5	8	7	77	8	7
46	Ochsner Hospital for Children, New Orleans	54.9	6	2	5	40	5	15	8	15	2.9	3	9	10	17	12	10	1	0.4	40	17	5	7	3	90	8	7
47	Connecticut Children's Medical Center, Hartford	53.4	6	NA NA	5	45	5	21	8	9	2.9	NA NA	10	9	18	13	12	1	0.8	42	20	5	3	7	86	8	7
	connecticut Crimarerra Fredicur Center, Hartroru	33.7							_	,			_			-									_	8	
	American Family Children's Hospital, Madison, Wis	52.7	6	6	-5	34	4	13	7	8	3.4	2	6	10	18	7 1	11	1	0.3	36	15	4	2	5	71		n ·
48	American Family Children's Hospital, Madison, Wis.  M Health Fairview Masonic Children's Hospital, Minneapolis	52.7 52.5	5	6 5	5 4	34 35	3	13 27	7	8	4.2	2	6 9	10	18	7	11	0	0.3	36 41	15 15	4 5	7	5 7	71 75	8	7

Rank	Best Children's Hospital 2024-25: Neonatology	Overall Score	Taking breast milk when discharged	Ability to prevent infections throughout hospital	Ability to prevent infections in neonatal intensive-care unit	Keeping breathing tube in place	NICU temperature management	Matching breast milk with correct infants	Tracking of growth metrics for treated patients	Number of patients	Nurse staffing	ECMO availability	Neonatal transport	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Specialized clinics and programs available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
1	Boston Children's Hospital	100	3	41	5	5	12	4	7	35	4.1	2	11	17	7	12	18	18	1	24.6	83	23	5	10	4	78	15	8
2	Children's National Hospital, Washington	95.0	3	43	5	5	12	4	7	32	4.0	2	12	17	7	15	18	18	1	13.1	82	23	5	11	4	90	15	8
3	Texas Children's Hospital, Houston	92.3	3	42	5	4	12	4	7	34	3.7	2	12	17	7	15	18	18	1	14.3	82	22	5	12	4	79	15	8
4	Children's Hospital of Philadelphia	89.9	3	43	3	5	11	4	7	35	4.3	2	12	17	7	15	18	18	1	31.5	79	20	5	12	4	78	15	8
5	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	89.1	3	40	5	5	12	4	7	26	4.7	2	10	17	7	15	18	17	1	12.7	81	19	5	11	4	70	15	8
6	Cincinnati Children's, Cincinnati	88.0	2	42	5	4	12	3	7	35	3.7	2	10	17	7	15	18	18	1	17.9	83	23	5	12	4	87	15	8
7	UCSF Benioff Children's Hospitals, San Francisco and Oakland	87.8	3	43	5	5	11	4	7	30	3.6	2	12	17	7	15	18	18	1	8.3	82	23	5	10	4	80	15	8
	Nationwide Children's Hospital, Columbus, Ohio	86.2	2	42	5	4	11	4	7	29	3.0	2	12	17	7	15	18	18	1	14.8	83	23	5	12	4	85	15	8
9	Rainbow Babies and Children's Hospital, Cleveland	83.5	3	42	5	5	12	4	7	15	4.2	2	11	17	7	15	18	17	1	6.2	81	23	5	8	4	90	15	8
10	Ann & Robert H. Lurie Children's HospPrentice Women's Hosp., Chicago	80.2	2	40	5	5	11	4	7	26	3.2	2	12	17	7	15	18	18	1	7.8	82	23	5	10	4	77	15	8
11	Children's Mercy Kansas City Hospital, Kansas City, Mo.	79.4	3	34 43	5	5	12	4	7	23	4.0 3.2	2	11	17 17	7	13 15	16 18	18 18	1	3.5 1.7	83 82	23	5	12 9	4	90	15 15	8
	Cleveland Clinic Children's Hospital	79.4		35	4		12		7	32		2		17	7				1	9.3		23	5	12		82	15	8
13	Children's Hospital Colorado, Aurora St. Louis Children's Hospital-Washington University	78.1	2	39	5	5	11	4	7	30	3.0	2	11 13	17	7	14 14	17 18	18 18	1	6.3	83 82	23	5	10	4	73	15	8
15	Seattle Children's Hospital	77.4	3	38	4	5	10	4	7	30	5.7	2	12	17	7	15	18	17	1	7.5	79	21	5	11	4	74	14	8
16	Rady Children's Hospital, San Diego	77.2	3	43	3	5	12	4	7	30	4.4	2	13	17	7	15	18	18	1	5.1	83	23	5	10	4	90	15	8
17	Children's Medical Center Dallas	76.3	3	42	4	5	11	4	7	26	3.5	2	12	17	7	14	18	18	1	3.8	83	21	5	11	4	79	15	8
18	Johns Hopkins Children's Center, Baltimore	76.0	2	40	5	5	12	4	7	28	3.2	2	13	17	7	15	18	18	1	4.5	78	22	5	9	4	88	14	7
19	Children's Healthcare of Atlanta	75.2	3	40	5	4	10	3	7	33	3.4	2	12	17	7	14	18	18	1	5.2	81	22	5	10	4	75	15	8
20	Duke Children's Hospital and Health Center, Durham, N.C.	74.7	2	41	5	5	12	4	7	26	2.9	2	12	17	7	15	18	18	1	3.1	81	19	5	10	4	87	15	8
21	Children's Hospital Los Angeles	74.0	2	42	3	5	12	4	7	30	4.4	2	13	17	7	15	18	17	1	6.8	82	23	5	10	4	90	15	8
21	New York-Presbyterian Children's Hospital-Columbia and Cornell	74.0	3	41	4	5	8	4	7	27	2.9	2	11	17	6	15	16	18	1	8.6	80	19	5	10	4	78	14	8
21	University of Iowa Stead Family Children's Hospital, Iowa City	74.0	3	34	4	5	12	4	7	24	2.8	2	13	17	7	15	18	18	1	7.1	76	23	5	8	4	90	15	8
24	Johns Hopkins All Children's Hospital, St. Petersburg, Fla.	71.0	2	42	5	5	12	4	7	26	3.2	2	12	17	7	13	17	18	1	1.3	82	20	5	6	4	77	15	8
25	Joe DiMaggio Children's Hospital at Memorial, Hollywood, Fla.	69.9	3	38	5	5	12	4	7	14	2.6	2	13	17	7	15	16	18	1	1.9	81	23	5	0	4	79	15	8
26	Amold Palmer Hospital for Children, Orlando, Fla.	69.7	2	35	5	4	12	4	7	26	5.1	2	13	17	7	13	18	18	1	2.7	83	23	5	3	4	87	15	8
	Mayo Clinic Children's Center, Rochester, Minn.	69.7	3	39	5	4	12	4	7	13	3.2	2	12	17	7	15	18	17	1	0.6	81	23	5	6	4	90	15	8
26	UC Davis Children's Hospital, Sacramento, Calif.	69.7	2	40	5	4	12	4	7	23	3.8	2	12	17	7	13	18	17	1	2.0	80	23	5	5	4	90	15	8
26	University of Virginia Children's Hospital, Charlottesville	69.7	2	41	5	5	11	4	7	19	2.8	2	13	17	7	13	18	17	1	1.7	80	22	5	9	4	89	13	8
	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	69.3	2	37	5	4	10	4	7	32	3.6	2	11	17	7	15	17	18	1	2.5	80	21	5	11	4	82	14	8
	Riley Hospital for Children at IU Health, Indianapolis	69.2	2	33	4	5	11	4	7	33	3.2	2	11	17	7	15	18	16	1	4.6	81	23	5	12	4	80	15	8
31	UPMC Children's Hospital of Pittsburgh	69.2	3	42	3	4	11	4	7	26	2.9	2	12	17	7	15	18	18	1	4.2	82	23	5	11	4	89	15	8
33	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	69.0	2	38 42	5	3	12	4	7	34	2.7	2	12	16 17	7	15	15 18	18	1	4.5	80	19 23	5	10 0	4	79	13	8
34 35	Levine Children's Hospital, Charlotte, N.C.  Cohen Children's Medical Center, New Hyde Park, N.Y.	68.9 68.6	2	41	5	3	12	4	7	24	3.6	2	13	17	7	15 15	18	17 18	1	1.1	80	23	5	9	4	90	15 15	8
35	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	68.6	3	36	4	5	11	4	7	28	3.6	2	13	17	7	15	18	18	1	2.9	75	23	4	8	4	74	14	8
37	AdventHealth for Children, Orlando, Fla.	67.8	3	34	5	5	12	4	7	21	2.9	2	13	17	7	15	18	18	1	0.5	81	23	5	1	4	68	15	8
38	Yale New Haven Children's Hospital, New Haven, Conn.	67.5	3	37	4	5	10	4	7	15	2.9	2	13	17	7	15	16	18	1	2.4	83	20	5	9	4	88	14	8
	Inova L.J. Murphy Children's Hospital, Falls Church, Va.	67.4	3	41	5	4	12	4	7	17	3.3	2	9	17	7	15	17	16	1	0.7	81	18	5	4	4	74	15	8
	Hassenfeld Children's Hospital at NYU Langone, New York	66.7	3	40	5	5	11	4	7	12	2.8	2	9	16	7	11	17	17	1	1.1	78	16	5	9	4	73	15	8
41	University of Rochester-Golisano Children's Hospital, Rochester, N.Y.	66.5	3	34	5	3	11	4	7	16	2.9	2	13	17	7	15	18	17	1	2.2	81	22	5	8	4	79	15	8
42	CHOC Children's Hospital, Orange, Calif.	66.1	3	38	3	5	12	4	7	31	3.3	2	13	17	7	15	18	18	1	2.9	82	23	5	5	4	54	13	8
43	Nicklaus Children's Hospital, Miami	65.3	3	36	5	5	12	4	7	10	2.7	2	13	17	6	12	15	17	1	1.7	77	18	5	7	4	70	14	7
44	Arkansas Children's Hospital, Little Rock	65.1	2	40	4	5	10	4	7	30	2.7	2	13	17	7	15	18	18	1	1.2	82	20	5	9	4	87	15	8
45	Dell Children's Medical Center, Austin, Texas	64.4	2	39	4	5	12	4	7	19	4.0	2	13	17	6	12	17	18	1	1.7	80	23	5	3	4	84	15	8
46	Connecticut Children's Medical Center, Hartford	64.3	2	40	5	5	9	4	7	14	2.3	2	11	17	7	13	17	18	1	0.9	83	23	5	7	4	86	15	8
46	SSM Health Cardinal Glennon Children's Hospital-St. Louis University	64.3	2	39	5	4	12	4	7	20	2.1	2	12	17	7	13	17	18	1	1.1	78	23	5	8	4	84	15	8
	Le Bonheur Children's Hospital, Memphis, Tenn.	63.2	2	39	5	4	12	4	7	20	2.5	1	13	17	5	15	17	18	1	0.8	79	23	5	10	4	76	15	8
48		_																										
	M Health Fairview Masonic Children's Hospital, Minneapolis	62.2	3	31	5	5	12	4	7	21	3.8	2	12	17	7	15	17	18	0	0.9	78	18	5	8	3	75	15	8
49 50		62.2 62.1 62.1	3 2 3	31 40 42	5 5	5 4 3	12 12 11	4 4	7 7 1	21 18 16	3.8 2.7 2.9	2 2 2	12 11 13	17 17 17	7 7 7	15 14 15	17 15 18	18 18 16	1	0.9 1.0 1.0	78 80 80	18 23 20	5 5	8 1 3	3 3 4	75 90 77	15 15 15	8 8

	Best Children's Hospital 2024-25: Nephrology	Overall Score	Survival after kidney transplant	Success in managing dialysis patients	Ability to prevent biopsy-related complications	Ability to prevent infections throughout hospital	Ability to prevent infections in intensive-care units	Ability to prevent dialysis-related infections	Ability to prevent pressure injuries	Number of patients	Number of dialysis patients	Number of kidney biopsies	Number of kidney transplants	Percent of dialysis patients who had transplants	Nurse staffing	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
1	Texas Children's Hospital, Houston	100	24	12	6	60	4	9	5	9	12	6	6	3	4.5	8	11	1	9	1	27.7	66	19	5	9	4	79	15	7
2	Boston Children's Hospital	98.3	23	12	6	60	4	9	3	9	11	5	6	3	4.2	8	11	1	9	1	39.6	68	20	5	8	4	78	15	7
3	Cincinnati Children's, Cincinnati	97.6	23	12	6	61	5	6	4	9	11	6	6	4	4.2	9	11	1	9	1	37.1	63	20	5	9	4	87	15	7
4	Nationwide Children's Hospital, Columbus, Ohio	96.4	24	11	6	59	5	9	4	9	9	4	5	5	3.2	8	11	1	9	1	20.0	64	20	5	9	4	85	15	7
5	Seattle Children's Hospital	96.3	24	11	6	55	4	9	4	9	12	6	6	6	3.8	8	11	1	9	1	36.6	60	17	5	9	4	74	15	7
6	Children's Hospital of Philadelphia	95.5	24	10	6	61	3	8	4	9	12	6	6	4	4.0	9	11	1	9	1	34.3	67	17	5	9	4	78	15	7
7	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	95.3	24	12	6	58	5	9	4	9	12	5	6	2	4.5	8	11	1	9	1	22.4	62	16	5	7	4	70	15	7
8	Children's National Hospital, Washington	93.8	24	11	6	60	5	9	5	9	10	5	6	4	4.5	8	11	1	9	1	13.0	63	20	5	7	4	90	15	7
9	Children's Mercy Kansas City Hospital, Kansas City, Mo.	92.1	24	10	6	56	5	9	4	9	11	6	6	4	4.0	8	11	1	9	1	13.0	64	20	5	8	4	80	15	7
10	Riley Hospital for Children at IU Health, Indianapolis	90.1	24	12	6	52	5	9	5	9	12	5	5	2	3.9	9	10	1	8	1	10.2	64	20	5	9	4	80	15	7
11	Ann and Robert H. Lurie Children's Hospital of Chicago	89.4	24	10	6	55	5	9	2	9	12	6	6	4	3.1	7	11	1	9	1	14.1	63	20	5	8	4	77	15	7
12	UPMC Children's Hospital of Pittsburgh	89.3	24	12	6	54	5	9	4	9	8	5	6	2	3.1	9	11	1	9	1	10.8	64	20	5	8	4	89	15	7
13	Children's Healthcare of Atlanta	88.6	24	8	6	54	3	8	5	9	12	6	6	2	5.2	8	11	1	9	1	23.3	63	20	5	8	4	75	14	7
14	Johns Hopkins Children's Center, Baltimore	87.8	24	10	6	59	4	8	5	8	10	4	5	4	3.6	8	11	1	9	1	11.4	68	19	5	6	4	88	15	7
15	Rady Children's Hospital, San Diego	87.7	23	12	6	62	5	9	5	9	9	6	6	4	4.7	8	11	1	9	1	3.9	64	20	5	6	4	90	15	7
16	Children's Hospital Los Angeles	85.9	24	11	6	60	5	9	5	9	12	6	5	2	4.2	9	11	1	8	1	4.7	62	20	5	6	4	90	15	7
17	Cohen Children's Medical Center, New Hyde Park, N.Y.	83.5	21	12	6	60	5	9	5	9	5	5	5	5	4.5	8	11	1	9	1	1.1	67	20	5	6	4	90	15	7
18	UCSF Benioff Children's Hospitals, San Francisco and Oakland	83.0	23	9	6	59	4	9	5	9	10	5	6	4	4.1	8	11	1	9	1	4.9	63	19	5	8	4	80	15	7
	St. Louis Children's Hospital-Washington University	82.9	24	12	6	57	4	8	4	9	10	5	5	4	3.6	7	10	1	9	1	5.1	66	19	5	7	4	73	15	7
20	Children's Hospital Colorado, Aurora	81.1	24	9	6	57	2	7	4	9	12	6	6	5	4.4	8	11	1	9	1	7.5	64	20	5	9	4	82 79	15	7
20	Children's Medical Center Dallas	81.1 80.6	24	11	6	59 52	5	9			12 10	5	6	1	3.3	8	11	1	9	1	4.5	58 67	18 20		6	4	79	15 15	7
22	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	79.8	24	11	6	58	5	9	2	9	9	5	6	3	7.2	9	11	1	8	1	3.2 0.9	63	19	4 5	4	4	90	15	7
	UC Davis Children's Hospital, Sacramento, Calif.  MUSC Shawn Jenkins Children's Hospital, Charleston, S.C.	79.6	18	12	6	57	5	9	3	9	10	5	5	5	3.6	8	11	1	9	1	1.4	67	20	5	4	4	87	14	7
	M Health Fairview Masonic-Children's Minnesota, Minneapolis	79.4	24	12	6	49	3	9	4	9	11	6	6	5	4.2	7	11	1	9	1	4.3	60	15	5	7	4	75	15	7
26	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	78.7	22	12	6	52	3	6	2	9	11	5	6	5	6.0	7	11	1	9	1	7.0	64	17	5	8	4	82	15	7
27	SSM Health Cardinal Glennon Children's Hospital-St. Louis University	77.4	24	12	6	57	5	9	5	9	8	5	4	4	3.9	7	8	1	9	1	0.1	60	20	5	3	4	84	15	7
	University of Virginia Children's Hospital, Charlottesville	76.6	24	12	6	51	4	9	3	7	8	4	5	6	2.9	8	11	1	8	1	2.4	60	20	5	4	4	89	15	7
	Duke Children's Hospital and Health Center, Durham, N.C.	76.3	22	11	6	59	5	9	3	9	6	5	4	1	3.5	8	11	1	9	1	2.5	59	16	5	6	4	87	15	7
	Rainbow Babies and Children's Hospital, Cleveland	75.3	18	9	6	57	5	9	5	8	5	3	3	6	4.1	9	11	1	8	1	1.4	62	20	5	3	4	90	15	7
	Mount Sinai Kravis Children's Hospital, New York	74.9		12	6	42	5	9	4	8	5	2	6	6	3.4	8	10	1	9	1	1.9	62	15	5	5	4	76	15	7
32	UCLA Mattel Children's Hospital, Los Angeles	74.6	24	10	6	42	3	4	4	8	10	6	6	6	4.0	8	10	1	7	1	9.6	65	19	5	5	4	78	14	7
	University of Iowa Stead Family Children's Hospital, Iowa City	74.6	24	10	6	51	2	8	5	9	8	6	5	4	3.6	8	11	1	9	1	4.6	63	20	5	2	4	90	15	7
	Children's Hospital of Richmond at VCU, Richmond, Va.	74.5	23	11	6	48	5	9	5	9	7	4	4	5	3.3	8	11	1	8	1	0.3	62	17	5	4	4	89	15	7
	North Carolina Children's Hospital at UNC, Chapel Hill	74.2	18	10	6	53	4	8	4	8	7	6	4	5	3.9	9	11	1	7	1	1.7	64	20	5	6	4	85	15	7
36	Levine Children's Hospital, Charlotte, N.C.	73.3	21	12	6	60	5	7	4	9	12	6	4	2	3.6	8	11	1	8	1	0.4	61	20	5	0	4	90	15	7
37	Arkansas Children's Hospital, Little Rock	73.1	24	12	6	59	5	6	5	9	8	6	4	2	3.3	8	11	1	8	1	0.7	59	17	5	4	4	87	14	7
38	Children's Hospital of Alabama at UAB, Birmingham	72.3	24	11	6	51	1	9	4	9	12	6	5	2	4.0	9	11	1	9	0	7.6	66	15	5	7	4	75	15	4
39	Phoenix Children's Hospital	72.1	24	12	6	54	5	8	2	9	12	6	6	1	3.3	7	11	1	9	0	1.7	63	20	5	5	4	87	14	7
40	Nemours Children's Hospital-Delaware, Wilmington	71.6	20	9	6	60	5	8	3	9	7	4	5	4	3.3	7	11	1	9	1	0.3	62	17	5	5	4	84	15	7
41	Le Bonheur Children's Hospital, Memphis, Tenn.	71.0	22	9	6	51	5	5	5	9	7	5	3	4	3.0	8	8	1	9	1	3.4	63	20	5	6	4	76	14	7
42	Children's Wisconsin Hospital, Milwaukee	70.3	24	9	6	54	4	8	3	8	9	5	5	3	4.4	8	11	1	9	1	1.6	60	15	5	4	4	56	15	7
43	Cleveland Clinic Children's Hospital	69.7	19	7	6	57	4	9	4	8	6	5	3	1	5.0	7	11	1	9	1	1.5	62	20	5	5	4	90	15	7
44	Mayo Clinic Children's Center, Rochester, Minn.	69.5	24	10	6	46	5	4	5	7	6	6	6	5	4.4	5	11	1	7	1	3.0	60	20	5	2	4	90	15	7
44	University of Rochester-Golisano Children's Hospital, Rochester, N.Y.	69.5	24	12	6	48	2	9	4	8	4	3	2	4	3.3	7	10	1	7	1	1.5	63	19	5	5	4	79	15	7
46	Loma Linda University Children's Hospital, Loma Linda, Calif.	69.4	22	10	6	43	5	9	5	8	9	4	4	1	3.6	7	10	1	8	1	0.8	59	19	5	5	4	85	14	7
47	Children's Hospital at Montefiore, Bronx, N.Y.	69.1	24	11	6	55	1	7	4	9	6	4	4	4	5.2	8	11	1	8	0	5.3	60	20	5	7	4	88	15	7
48	Corewell Health Helen DeVos Children's Hospital, Grand Rapids, Mich.	68.9	24	10	4	52	5	9	3	9	8	5	5	6	3.3	7	11	1	8	1	0.4	59	20	5	2	4	62	15	7
49	Children's Nebraska, Omaha	68.6	24	12	6	55	3	9	5	9	9	5	4	2	2.6	6	11	0	9	1	0.7	62	20	5	2	4	90	15	7
	New York-Presbyterian Children's Hospital-Columbia and Cornell	67.5	23	7	5	57	5	5	4	9	5	5	4	3	3.5	7	10	1	9	1	3.4	60	16	5	7	4	78	15	7

2 Treass Children's Negotal, Neutron (1904) 49, 43, 44, 41, 42, 53, 53, 43, 43, 44, 42, 52, 53, 44, 52, 52, 52, 53, 54, 53, 54, 53, 54, 53, 54, 53, 54, 53, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54	Rank	Best Children's Hospital 2024-25: Neurology & Neurosurgery  Hospital	Overall Score	Ability to prevent infections throughout hospital	Survival after surgery	Ability to prevent surgical complications	Success in controlling epilepsy	Number of surgeries	Number of epilepsy workups and treatments	Nurse staffing	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Specialized clinics and programs available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	-	Enlists families in structuring care
3	1	Boston Children's Hospital	100	44	14	12	6	33	15	4.2	19	12	19	19	16	1	39.7	51	19	5	13	8	78	8	7
Challeron's Notopital of Philodelphie   97.5   40   14   12   6   20   15   40   10   10   10   10   10   10   10																								8	7
Section   Children's Mathonal Membray (Assignation   1974   197				_																				8	7
Fig.   Restorwise Chidren's Hospital, Columbus, Ohlo   9.3.   43   13   12   6   80   14   32   19   12   18   18   10   10   13   137   18   18   19   10   13   137   18   18   19   10   13   137   18   18   19   10   13   137   18   18   19   10   13   137   18   18   19   19   10   13   137   18   18   19   19   10   13   137   18   18   19   19   10   13   137   18   18   19   19   10   13   13   18   18   18   18   18   18																								8	7
Part   Rest Mark Stolpt II Luier Children's Hospital of Chicago   88.6   40   14   13   12   6   30   14   13   12   6   30   12   17   10   16   10   13   13   6   10   13   13   10   10   10   10   10		, , ,																						8	7
8. Rady Children's Hospital, San Diego 88.0 44 83 12 66 36 12 67 18 12 19 19 16 1 3. 7. 72 19 5 12 8 8 00 9 Sacatte Children's Hospital Hospital 88.3 41 14 11 5 28 11 3.8 11 12 19 19 16 1 1 6.5 73 15 1 8 17 8 18 11 11 11 11 11 11 11 11 11 11 11 1																								8	7
Seattle Children's Hospital Lor Utah, Salt Lake Cry   S72   37   41   12   6   33   15   33, 8   11   12   19   19   15   11   14, 9   50   17   5   14   18   74   10   10   10   10   10   10   10   1																								8	7
100   Intermountain Primary Children's Hospital-U. of Urah, Salt Lake City   87.2   37   14   12   5   23   9   36   13   10   12   10   10   10   10   10   10																								8	7
13   Louis Children's Hospital-Washington University   86.6   41   12   12   4   29   13   3.6   19   12   19   19   16   1   16   40   19   5   11   7   73   73   73   73   74   74   74				-																				8	7
13   Lucille Packard Children's Hospital Stanford, Palo Ako, Calif.   86.5   41   14   11   5   24   12   5   24   15   12   19   19   14   1   1.4   12   5   25   75   75   75   75   75   75	11	Johns Hopkins Children's Center, Baltimore	86.8	41	12	12	5	23	9	3.6	19	12	19	19	15	1	10.9	53	18	5	11	8	88	8	7
14 Children's HealthCare of Attainta  86.3 41 14 12 6 8 33 14 5.2 20 12 17 18 16 1 3.3 51 10 5 12 5 75  15 Children's Hospital Los Angeles  86.0 42 13 12 7 6 29 14 4.4 19 12 19 18 16 1 1.4 45 19 6 9 7 90  16 Children's Hospital Los Angeles  87.4 40 12 7 6 29 14 4.4 19 12 19 18 16 1 1.4 45 19 9 14 18 18 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18	12	St. Louis Children's Hospital-Washington University	86.6	41	12	12	4	29	13	3.6	19	12	19	19	16	1	16.4	50	19	5	11	7	73	8	7
15   Children's Hospital Los Angeles   86.0   42   13   12   5   32   14   4.2   20   12   19   19   16   1   7.0   48   19   5   9   7   90	13	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	86.5	41	14	11	5	24	12	4.5	15	12	19	19	14	1	11.4	52	15	5	11	8	70	8	7
16   Children's Hospital Colorado, Aurora   85.4   40   12   7   6   29   14   4.4   19   12   19   18   16   1   14.4   52   19   5   14   8   8   8   17   19   19   10   16   1   17.5   3   19   5   14   8   8   8   18   18   19   19   10   10   10   10   10   10	14	Children's Healthcare of Atlanta	86.3	41	14	12	6	33	14	5.2	20	12	17	18	16	1	3.3	51	19	5	12	5	75	8	7
17 UPMC Children's Hospital of Pittsburgh  85.2 43 14 8 8 6 29 15 3.1 20 12 19 19 16 10 16 10 6.7 53 19 5 13 8 8 9 18 18 10 14 16 18 16 17 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	15	Children's Hospital Los Angeles	86.0	42	13	12	5	32	14	4.2	20	12	19	19	16	1	7.0	48	19	5	9	7	90	8	7
18	16	Children's Hospital Colorado, Aurora	85.4	40	12	7	6	29	14	4.4	19	12	19	18	16	1	14.4	52	19	5	14	8	82	8	7
19 UCSF Benioff Children's Hospitals, San Francisco and Oakland 83.8 43 14 11 3 2.8 12 4.1 19 12 19 10 16 1 12.6 47 19 5 12 8 80 20 New York-Presbyterian Children's Hospital-Columbia and Cornell 80.3 40 12 11 5 28 15 3.5 16 11 19 19 15 1 5 .8 51 15 5 10 7 7 8 21 10 10 10 10 10 10 10 10 10 10 10 10 10	17	UPMC Children's Hospital of Pittsburgh	85.2	43	14	8	6	29	15	3.1	20	12	19	19	16	1	6.7	53	19	5	13	8	89	8	7
20   New York-Presbyterian Children's Hospital-Columbia and Cornell   80.3   40   12   11   5   28   15   3.5   16   11   19   19   15   1   5   5   10   7   7   7   7   7   7   7   7   7	18	Children's Medical Center Dallas	83.9	42	12	12	5	32	14	4.4	18	12	19	19	16	1	3.3	53	17	5	14	7	79	8	7
22 Nicklaus Children's Hospital, Kansas City, Mo. 79,2 37 14 10 6 26 11 4.0 19 12 19 19 15 1 2.3 48 19 5 10 5 80 80 80 Nicklaus Children's Hospital, Minim 78 9 36 14 12 6 22 14 2.8 16 10 17 16 16 1 3,9 48 16 5 9 4 70 23 U. of Michigan Heasth C.S. Mott Children's Hospital, Ann Arbor 78.5 38 11 10 6 23 12 6.0 18 11 18 18 15 1 6.4 49 17 5 10 4 82 40 40 17 12 15 16 18 16 11 4.2 48 15 5 10 5 79 25 Cohen Children's Hospital at Vanderbilt, Nosh-wille, Tenn. 77.3 41 13 8 6 29 15 4.0 17 12 16 18 16 11 4.2 48 15 5 10 5 79 25 Cohen Children's Hospital of Alabama at UAB, Birningham 76.8 36 14 11 6 32 14 4.0 19 12 18 18 15 0 4.8 47 14 5 9 7 75 20 00 Michigan's Hospital of Alabama at UAB, Birningham 76.8 36 14 11 6 32 14 4.0 19 12 18 18 15 0 4.8 47 14 5 9 7 75 20 00 Michigan's Hospital of Alabama at UAB, Birningham 76.8 36 14 11 6 32 14 4.0 19 12 18 18 15 10 4.8 47 14 5 9 7 75 20 00 Michigan's Hospital of Alabama at UAB, Birningham 76.8 36 14 11 6 32 14 4.0 19 12 18 18 15 10 4.8 47 14 5 9 7 75 20 00 Michigan's Hospital Children's Hospital Alabama at UAB, Birningham 76.8 36 14 11 6 6 32 10 3.5 8 12 18 17 16 1 2.4 48 15 5 1 5 8 7 7 5 20 14 8 10 14 11 14 10 14 10 14 11 14 11 14 14 11 14 11 14 11 14 11 14 11 14 11 14 11 14 11 14 11 14 11 14 14	19	UCSF Benioff Children's Hospitals, San Francisco and Oakland	83.8	43	14	11	3	28	12	4.1	19	12	19	19	16	1	12.6	47	19	5	12	8	80	8	7
Nicklaus Children's Hospital, Milami   78.9   36   14   12   6   22   14   2.8   16   10   17   16   16   1   3.9   48   16   5   9   4   70	20	New York-Presbyterian Children's Hospital-Columbia and Cornell	80.3	40	12	11	5	28	15	3.5	16	11	19	19	15	1	5.8	51	15	5	10	7	78	8	7
23 U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor 78.5 38 11 10 6 2 31 12 6.0 18 11 18 18 15 1 6.4 49 17 5 10 4 82 4 Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashwille, Tenn. 77.3 41 13 8 6 2 91 15 4.0 17 12 16 18 16 1 4.2 48 15 5 10 5 79 25 Cohen Children's Medical Center, New Hyde Park, N.Y. 77.2 42 14 12 5 25 8 4.5 17 11 18 19 16 1 1.3 47 19 5 7 2 90 Chen Children's Hospital of Alabama at UAB, Birmingham 76.8 36 14 11 6 3 22 14 4.0 19 12 18 18 15 0 4.8 47 14 5 9 7 7 5 7 10 10 10 10 10 10 10 10 10 10 10 10 10		Children's Mercy Kansas City Hospital, Kansas City, Mo.		-				_								1								8	7
Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.   77.3   41   13   8   6   29   15   4.0   17   12   16   18   16   1   4.2   48   15   5   10   5   79																								8	7
25 Cohen Children's Medical Center, New Hyde Park, N.Y. 77.2 42 14 12 5 25 8 4.5 17 11 18 19 16 1 1.3 47 19 5 7 2 90 26 Children's Hospital of Alabama at UAB, Birmingham 76.8 36 14 11 6 32 14 4.0 19 12 18 18 15 0 4.8 47 14 5 9 7 75 2 90 27 75 27 Duke Children's Hospital and Health Center, Durham, N.C. 76.0 42 14 9 6 23 10 3.5 8 12 18 17 16 1 2.4 48 15 5 11 5 87 28 29 Arkansas Children's Hospital, Luttle Rock 75.5 41 14 10 6 19 7 3.3 20 12 19 18 16 1 1 2.4 48 15 5 11 5 87 30 20 20 20 20 20 20 20 20 20 20 20 20 20																								8	7
Children's Hospital of Alabama at UAB, Birmingham  76.8 36 14 11 6 32 14 4.0 19 12 18 18 15 0 4.8 47 14 5 9 7 75  Duke Children's Hospital and Health Center, Durham, N.C.  76.0 42 14 9 6 23 10 3.5 8 12 18 17 16 1 2.4 48 15 5 11 5 87  Bell Children's Medical Center, Austin, Texas  75.7 40 14 8 6 22 12 4.1 19 11 19 18 16 1 2.2 49 19 5 4 5 84  Arkansas Children's Hospital, Little Rock  75.5 41 14 10 6 19 7 3.3 20 12 19 13 15 1 1.3 48 16 5 7 5 87  Gleveland Clinic Children's Hospital, Little Rock  75.5 41 14 10 6 15 10 3.0 19 11 17 17 15 1 1.3 2 44 19 5 5 13 6 97  Gleveland Clinic Children's Hospital, Jacksonville, Fla.  75.0 34 14 12 10 5 16 15 10 3.0 19 11 17 17 15 1 0.5 52 16 5 4 3 84  Bell Children's Hospital, Memphis, Tenn.  73.5 40 12 10 6 21 9 3.0 16 9 19 14 16 1 3.3 45 19 5 9 4 76  33 Norton Children's Hospital, Louisville, Ky.  73.3 42 12 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 4 90  34 Levine Children's Hospital, Charlotte, N.C.  73.2 43 14 12 10 5 28 12 3 19 12 19 19 16 0 3.0 50 19 5 9 5 87  35 Phoenix Children's Hospital, Charlotte, N.C.  73.1 42 12 10 5 28 12 3 19 12 19 19 16 0 3.0 50 19 5 9 5 87  36 Akron Children's Hospital, Charlotte, N.C.  75.0 40 12 10 5 28 12 3 19 12 19 19 16 10 3.0 50 19 5 9 5 87  37 University of Chicago Comer Children's Hospital  75.1 43 14 11 4 16 6 3.3 20 12 18 15 1 0.5 52 19 5 14 6 90  38 Akron Children's Hospital, Akron, Ohio  76.0 40 14 11 4 16 6 3.3 20 12 18 17 15 1 0.5 52 19 15 11 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5																								8	7
27 Duke Children's Hospital and Health Center, Durham, N.C. 76.0 42 14 9 6 23 10 3.5 8 12 18 17 16 1 2.4 48 15 5 11 5 87 28 Dell Children's Medical Center, Austin, Texas 75.7 40 14 8 6 22 12 4.1 19 11 19 18 16 1 2.2 49 19 5 4 5 84 29 Arkansas Children's Hospital, Little Rock 75.5 41 14 10 6 19 7 3.3 20 12 19 13 15 1 1.3 48 16 5 7 5 87 30 Cleveland Clinic Children's Hospital, Jacksonville, Fla. 75.4 44 12 10 5 16 11 5.0 11 12 19 15 15 1 3.2 44 19 5 13 6 90 31 Wolfson Children's Hospital, Jacksonville, Fla. 75.0 34 14 12 10 6 15 10 3.0 19 11 17 17 15 1 0.5 52 16 5 4 9 4 76 33 Norton Children's Hospital, Memphis, Tenn. 73.5 40 12 10 6 21 19 3.0 16 9 19 14 16 1 3.3 45 19 5 16 5 4 9 4 76 33 Norton Children's Hospital, Louisville, Ky. 73.3 42 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 90 34 Levine Children's Hospital, Charlotte, N.C. 73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 2 90 35 Phoenix Children's Hospital, Cleveland 73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87 37 37 University of Chicago Comer Children's Hospital 72.9 40 12 10 6 13 6 4.4 16 12 17 19 14 1 0.5 1 0.5 49 17 5 9 4 6 6 33 Norton Children's Hospital, Akron, Ohio 72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 5 4 6 9 9 19 10 10 10 10 10 10 10 10 10 10 10 10 10													_											8	7
28 Dell Children's Medical Center, Austin, Texas 75.7 40 14 8 6 22 12 4.1 19 11 19 18 16 1 2.2 49 19 5 4 5 84 29 Arkansas Children's Hospital, Little Rock 75.5 41 14 10 6 19 7 3.3 20 12 19 13 15 1 1.3 48 16 5 7 5 87 30 Cleveland Clinic Children's Hospital, Jacksonville, Fla. 75.0 34 14 12 10 5 16 11 5.0 11 12 19 15 15 1 3.2 44 19 5 13 6 90 31 Wolfson Children's Hospital, Jacksonville, Fla. 75.0 34 14 12 10 6 15 10 3.0 19 11 17 17 15 1 0.5 52 16 5 4 3 84 32 Le Bonheur Children's Hospital, Memphis, Tenn. 73.5 40 12 10 6 21 9 3.0 16 9 19 14 16 1 3.3 45 19 5 9 4 76 33 Norton Children's Hospital, Louisville, Ky. 73.3 42 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 9 90 34 Levine Children's Hospital, Charlotte, N.C. 73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 2 90 35 87 35 Rainbow Babies and Children's Hospital (Sevenand Translation of Children's Hospital, Cleveland 73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 87 35 Rainbow Babies and Children's Hospital Akron, Ohio 72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 4 6 90 39 North Carolina Children's Hospital at UNC, Chapel Hill 71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85 4 6 90 40 University of Gwas Stead Family Children's Hospital, Iowa City 71.2 34 8 12 6 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 9 5 5 5 4 4 6 90 41 10 4 10 4 10 4 10 4 10 4 10 4 10															_	-								8	4
29 Arkansas Children's Hospital, Little Rock 75.5 41 14 10 6 19 7 3.3 20 12 19 13 15 1 1.3 48 16 5 7 5 87 30 Cleveland Clinic Children's Hospital 75.4 44 12 10 5 16 11 5.0 11 12 19 15 15 1 3.2 44 19 5 13 6 90 31 Wolfson Children's Hospital, Jacksonville, Fla. 75.0 34 14 12 6 15 10 3.0 19 11 17 17 15 1 0.5 52 16 5 4 3 84 32 Le Bonheur Children's Hospital, Memphis, Tenn. 73.5 40 12 10 6 21 9 3.0 16 9 19 14 16 1 3.3 45 19 5 9 4 76 33 Norton Children's Hospital, Louisville, Ky. 73.3 42 12 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 90 34 Levine Children's Hospital, Charlotte, N.C. 73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 0 2 90 35 Phoenix Children's Hospital, Cleveland 73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87 35 Rainbow Babies and Children's Hospital, Cleveland 73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 9 4 66 38 Akron Children's Hospital, Akron, Ohio 72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.5 4 10 5 4 6 9 17 15 1 0.5 52 19 5 4 6 9 10 40 Holfsen's Hospital, Charlotte, N.C. 70.8 39 14 10 4 18 10 3.7 16 12 18 19 15 1 1.6 45 19 5 4 6 90 41 CHOC Children's Hospital, Louisville, Namela Hilli 71.7 41 12 10 4 18 10 3.7 16 12 18 18 19 15 1 2.4 47 19 5 9 5 5 5 4 18 18 19 15 1 2.4 47 19 5 9 5 5 5 5 4 18 18 19 15 1 2.4 47 19 5 9 5 5 5 5 4 18 18 19 15 1 2.4 47 19 5 9 5 5 5 5 4 18 18 19 15 1 2.4 47 19 5 9 5 5 5 5 4 18 18 19 15 1 2.4 47 19 5 9 5 5 5 5 4 18 18 19 15 1 2.4 47 19 5 9 5 5 5 5 4 18 18 19 15 1 2.4 47 19 5 9 5 5 5 5 4 18 18 19 15 1 2.4 47 19 5 5 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						_	-													_		_		8	7
30 Cleveland Clinic Children's Hospital 75.4 44 12 10 5 16 11 5.0 11 12 19 15 15 1 3.2 44 19 5 13 6 90 31 Wolfson Children's Hospital, Jacksonville, Fla. 75.0 34 14 12 6 15 10 3.0 19 11 17 17 15 1 0.5 52 16 5 4 3 84 32 Le Bonheur Children's Hospital, Memphis, Tenn. 73.5 40 12 10 6 21 9 3.0 16 9 19 14 16 1 3.3 45 19 5 9 4 76 33 Norton Children's Hospital, Louisville, Ky. 73.3 42 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 90 34 Levine Children's Hospital, Charlotte, N.C. 73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 2 90 35 Phoenix Children's Hospital, Cleveland 73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87 35 Rainbow Babies and Children's Hospital, Cleveland 73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 9 60 37 University of Chicago Comer Children's Hospital T7.9 40 12 12 5 13 6 4.4 16 12 17 19 14 1 0.5 49 17 5 9 4 66 38 Akron Children's Hospital Akron, Ohio 72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 5 4 6 90 39 North Carolina Children's Hospital, Orange, Calif. 70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 9 5 11 5 85 40 Children's Hospital, Orange, Calif. 70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 9 5 5 5 4 7 8 4 10 Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 7 7 8 8 14 10 Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 7 8 8 14 10 Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 7 8 8 14 10 Children's Hospital, Los Angeles 70.4 32 14 11 4 16 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 8 5 14 6 6 10 Children's Hospital, Los Angeles 70.4 32 14 11 4 16 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 8 5 14 6 10 Children's Hospital, Los Angeles 70.4 32 14 11 4 16 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 8 5 14 6 10 Children's Hospital, Los Angeles 70.4 32 14 11 4 16 6 22 7 3.5 19 12 16 18 14 1 1.7 51 19 5 14 5 10 7 8 5 14 6 10 Children's Hospital, Los Angeles 70.4 32 14 14 14 16 6 22 7 3.5 19 12 16 18 14																								8	7
31 Wolfson Children's Hospital, Jacksonville, Fla. 75.0 34 14 12 6 15 10 3.0 19 11 17 17 15 1 0.5 52 16 5 4 3 84 32 Le Bonheur Children's Hospital, Memphis, Tenn. 73.5 40 12 10 6 21 9 3.0 16 9 19 14 16 1 3.3 45 19 5 9 4 76 33 Norton Children's Hospital, Louisville, Ky. 73.3 42 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 90 34 Levine Children's Hospital, Charlotte, N.C. 73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 2 90 35 Phoenix Children's Hospital 73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87 35 Rainbow Babies and Children's Hospital, Cleveland 73.1 43 14 11 3 11 5 4.1 20 12 19 19 16 0 3.0 50 19 5 9 5 87 37 40 10 10 10 10 10 10 10 10 10 10 10 10 10		, ,		_		_						_	_											8	7
22 Le Bonheur Children's Hospital, Memphis, Tenn. 73.5 40 12 10 6 21 9 3.0 16 9 19 14 16 1 3.3 45 19 5 9 4 76 33 Norton Children's Hospital, Louisville, Ky. 73.3 42 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 90 34 Levine Children's Hospital, Charlotte, N.C. 73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 2 90 35 Phoenix Children's Hospital 73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87 35 Rainbow Babies and Children's Hospital, Cleveland 73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 90 37 University of Chicago Comer Children's Hospital 72.9 40 12 12 5 13 6 4.4 16 12 17 19 14 1 0.5 49 17 5 9 4 66 38 Akron Children's Hospital at UNC, Chapel Hill 71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85 40 University of Iowa Stead Family Children's Hospital, Iowa City 71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 47 90 47 80 47 81 47 81 47 81 47 81 81 81 81 81 81 81 81 81 81 81 81 81																								8	7
33 Norton Children's Hospital, Louisville, Ky.  73.3 42 12 12 6 23 11 3.9 18 12 18 19 15 0 0.3 46 18 5 7 4 90  34 Levine Children's Hospital, Charlotte, N.C.  73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 2 90  35 Phoenix Children's Hospital  73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87  35 Rainbow Babies and Children's Hospital, Cleveland  73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 90  37 University of Chicago Comer Children's Hospital  72.9 40 12 12 5 13 6 4.4 16 12 17 19 14 1 0.5 49 17 5 9 4 66  38 Akron Children's Hospital, Akron, Ohio  72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 4 6 90  39 North Carolina Children's Hospital UNC, Chapel Hill  71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85  40 University of Lowa Stead Family Children's Hospital, Iowa City  71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 4 7 90  41 CHOC Children's Hospital, Orange, Calif.  70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 5 5 5 54  42 UCLA Mattel Children's Hospital, Houston  70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85  43 Children's Memorial Hermann Hospital, Houston  70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 51 19 5 14 5 80  45 Cook Children's Medical Center, Fort Worth, Texas  69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 64  46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla.  69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77																								8	7
34 Levine Children's Hospital, Charlotte, N.C.  73.2 43 14 12 6 20 8 3.6 19 12 18 15 14 1 0.4 38 19 5 0 2 90  35 Phoenix Children's Hospital  73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87  35 Rainbow Babies and Children's Hospital, Cleveland  73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 90  37 University of Chicago Comer Children's Hospital  72.9 40 12 12 5 13 6 4.4 16 12 17 19 14 1 0.5 49 17 5 9 4 66  38 Akron Children's Hospital, Akron, Ohio  72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 4 6 90  39 North Carolina Children's Hospital at UNC, Chapel Hill  71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85  40 University of Iowa Stead Family Children's Hospital, Iowa City  71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 4 7 90  41 CHOC Children's Hospital, Chapel Children's Hospital, Los Angeles  70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78  43 Children's Memorial Hermann Hospital, Houston  70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85  44 Riley Hospital for Children at IU Health, Indianapolis  69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.2 48 19 5 1 4 64  46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla.  69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77																								8	7
35 Phoenix Children's Hospital 73.1 42 12 10 5 28 12 3.3 19 12 19 19 16 0 3.0 50 19 5 9 5 87 35 Rainbow Babies and Children's Hospital, Cleveland 73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 90 37 University of Chicago Comer Children's Hospital 72.9 40 12 12 5 13 6 4.4 16 12 17 19 14 1 0.5 49 17 5 9 4 66 38 Akron Children's Hospital, Akron, Ohio 72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 4 6 90 39 North Carolina Children's Hospital at UNC, Chapel Hill 71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85 40 University of Iowa Stead Family Children's Hospital, Iowa City 71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 4 7 90 41 CHOC Children's Hospital, Orange, Calif. 70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 5 5 5 44 12 UCLA Mattel Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78 43 Children's Memorial Hermann Hospital, Houston 70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85 44 Riley Hospital Genter, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 64 4 77																								8	7
35 Rainbow Babies and Children's Hospital, Cleveland  73.1 43 14 11 3 11 5 4.1 20 12 19 19 15 1 2.4 47 19 5 9 5 90  37 University of Chicago Comer Children's Hospital  72.9 40 12 12 5 13 6 4.4 16 12 17 19 14 1 0.5 49 17 5 9 4 66  38 Akron Children's Hospital, Akron, Ohio  72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 4 6 90  39 North Carolina Children's Hospital at UNC, Chapel Hill  71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85  40 University of Iowa Stead Family Children's Hospital, Iowa City  71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 4 7 90  41 CHOC Children's Hospital, Orange, Calif.  70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 5 5 54  42 UCLA Mattel Children's Hospital, Los Angeles  70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78  43 Children's Memorial Hermann Hospital, Houston  70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85  44 Riley Hospital for Children at IU Health, Indianapolis  69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.7 51 19 5 14 5 80  45 Cook Children's Medical Center, Fort Worth, Texas  69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 77																								8	7
38 Akron Children's Hospital, Akron, Ohio 72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 4 6 90 39 North Carolina Children's Hospital at UNC, Chapel Hill 71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85 40 University of Iowa Stead Family Children's Hospital, Iowa City 71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 4 7 90 41 CHOC Children's Hospital, Orange, Calif. 70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 5 5 5 4 42 UCLA Mattel Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78 43 Children's Memorial Hermann Hospital, Houston 70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85 44 Riley Hospital for Children at IU Health, Indianapolis 69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.7 51 19 5 14 5 80 45 Cook Children's Medical Center, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 64 46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla. 69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77	35		73.1	43	14	11	3	11	5	4.1	20	12	19	19	15	1	2.4	47	19	5	9	5	90	8	7
38 Akron Children's Hospital, Akron, Ohio 72.0 40 14 11 4 16 6 3.3 20 12 16 18 15 1 0.7 49 19 5 4 6 90 39 North Carolina Children's Hospital at UNC, Chapel Hill 71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85 40 University of Iowa Stead Family Children's Hospital, Iowa City 71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 4 7 90 41 CHOC Children's Hospital, Orange, Calif. 70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 5 5 5 4 42 UCLA Mattel Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78 43 Children's Memorial Hermann Hospital, Houston 70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85 44 Riley Hospital for Children at IU Health, Indianapolis 69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.7 51 19 5 14 5 80 45 Cook Children's Medical Center, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 77	37		72.9	40	12	12	5	13	6	4.4	16	12	17	19	14	1	0.5	49	17	5	9	4	66	8	7
39 North Carolina Children's Hospital at UNC, Chapel Hill 71.7 41 12 10 4 13 7 3.9 20 12 18 17 15 1 0.9 52 19 5 11 5 85 4 7 90 40 University of Iowa Stead Family Children's Hospital, Iowa City 71.2 34 8 12 6 18 7 3.6 18 12 18 19 15 1 1.6 45 19 5 4 7 90 41 CHOC Children's Hospital, Orange, Calif. 70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 5 5 5 4 4 2 UCLA Mattel Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78 43 Children's Memorial Hermann Hospital, Houston 70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85 44 Riley Hospital for Children at IU Health, Indianapolis 69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.7 51 19 5 14 5 80 45 Cook Children's Medical Center, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 7 4 77	38		72.0	40	14	11	4	16	6	3.3	20	12	16	18	15	1	0.7	49	19	5	4	6	90	8	7
41 CHOC Children's Hospital, Orange, Calif.  70.8 39 14 10 4 18 10 3.7 16 12 18 18 16 1 2.3 47 19 5 5 5 5 4 2 UCLA Mattel Children's Hospital, Los Angeles  70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78 4 78 4 10 14 15 15 15 15 15 15 15 15 15 15 15 15 15	39	North Carolina Children's Hospital at UNC, Chapel Hill	71.7	41	12	10	4	13	7	3.9	20	12	18	17	15	1	0.9	52	19	5	11	5	85	8	7
42 UCLA Mattel Children's Hospital, Los Angeles 70.4 32 14 11 4 16 7 4.0 15 11 17 12 15 1 5.3 43 18 5 7 4 78 43 Children's Memorial Hermann Hospital, Houston 70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85 44 Riley Hospital for Children at IU Health, Indianapolis 69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.7 51 19 5 14 5 80 45 Cook Children's Medical Center, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 64 46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla. 69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77	40	University of Iowa Stead Family Children's Hospital, Iowa City	71.2	34	8	12	6	18	7	3.6	18	12	18	19	15	1	1.6	45	19	5	4	7	90	8	7
43 Children's Memorial Hermann Hospital, Houston 70.2 39 14 6 6 22 7 3.5 19 12 16 18 14 1 1.7 46 14 5 10 7 85 44 Riley Hospital for Children at IU Health, Indianapolis 69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.7 51 19 5 14 5 80 45 Cook Children's Medical Center, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 64 46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla. 69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77	41	CHOC Children's Hospital, Orange, Calif.	70.8	39	14	10	4	18	10	3.7	16	12	18	18	16	1	2.3	47	19	5	5	5	54	8	7
44 Riley Hospital for Children at IU Health, Indianapolis 69.7 34 14 9 3 20 10 3.9 20 10 18 19 14 1 1.7 51 19 5 14 5 80 45 Cook Children's Medical Center, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 64 46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla. 69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77	42	UCLA Mattel Children's Hospital, Los Angeles	70.4	32	14	11	4	16	7	4.0	15	11	17	12	15	1	5.3	43	18	5	7	4	78	8	7
45 Cook Children's Medical Center, Fort Worth, Texas 69.1 39 13 9 5 22 12 3.6 13 12 19 19 14 1 1.2 48 19 5 1 4 64 46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla. 69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77	43	Children's Memorial Hermann Hospital, Houston	70.2	39	14	6	6	22	7	3.5	19	12	16	18	14	1	1.7	46	14	5	10	7	85	8	7
46 Johns Hopkins All Children's Hospital, St. Petersburg, Fla. 69.0 43 14 8 4 25 10 4.2 16 12 17 17 15 1 2.1 45 16 5 7 4 77	44	Riley Hospital for Children at IU Health, Indianapolis	69.7	34	14	9	3	20	10	3.9	20	10	18	19	14	1	1.7	51	19	5	14	5	80	8	7
	45	Cook Children's Medical Center, Fort Worth, Texas	69.1	39	13	9	5	22	12	3.6	13	12	19	19	14	1	1.2	48	19	5	1	4	64	8	7
47   Corewell Health Helen DeVos Children's Hospital, Grand Rapids, Mich. 67.6   38   14   11   3   19   12   3.3   19   12   19   19   16   1   0.1   47   19   5   4   4   62	46	Johns Hopkins All Children's Hospital, St. Petersburg, Fla.	69.0	43	14	8	4	25	10	4.2	16	12	17	17	15	1	2.1	45	16	5	7	4	77	8	7
	47	Corewell Health Helen DeVos Children's Hospital, Grand Rapids, Mich.	67.6	38	14	11	3	19	12	3.3	19	12	19	19	16	1	0.1	47	19	5	4	4	62	8	7
48 University of Virginia Children's Hospital, Charlottesville 67.4 42 12 12 14 7 7 2.9 8 12 19 19 15 1 0.9 42 19 5 9 2 89	48	University of Virginia Children's Hospital, Charlottesville	67.4	42	12	12	4	7	7	2.9	8	12	19	19	15	1	0.9	42	19	5	9	2	89	8	7
49 Amold Palmer Hospital for Children, Orlando, Fla. 66.8 36 11 11 5 20 13 4.2 18 12 14 15 15 1 0.8 40 19 5 1 3 87	49	Arnold Palmer Hospital for Children, Orlando, Fla.	66.8	36	11	11	5	20	13	4.2	18	12	14	15	15	1	0.8	40	19	5			87	8	7
49 Children's Wisconsin Hospital, Milwaukee 66.8 36 13 8 4 21 12 4.4 18 12 19 18 16 1 1.4 49 15 5 7 5 56	49	Children's Wisconsin Hospital, Milwaukee	66.8	36	13	8	4	21	12	4.4	18	12	19	18	16	1	1.4	49	15	5	7	5	56	8	7

	Best Children's Hospital 2024-25: Orthopedics  Hospital	Overall Score	Speed and success in treating complex fractures		Ability to prevent infections throughout hospital	Number of patients	Number of procedures and surgeries	Nurse staffing	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Specialized clinics and programs available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
1	Children's Hospital of Philadelphia	100	11	12	41	24	27	4.0	16	11	3	11	21	1	33.3	80	16	5	10	1	78	8	7
2	Children's Medical Center Dallas-Scottish Rite for Children	99.6	11	12	40	23	27	4.4	16	11	3	11	21	1	29.6	79	17	5	10	1	79	8	7
3	Cincinnati Children's, Cincinnati	97.2	11	13	40	21	27	4.2	17	11	3	11	21	1	13.8	78	19	5	10	1	87	8	7
4	Children's Hospital Los Angeles	96.1	11	13	40	24	26	4.2	17	11	3	11	21	1	11.6	79	19	5	8	1	90	8	7
5	Rady Children's Hospital, San Diego	95.5	11	10	41	24	26	4.7	15	11	3	11	21	1	24.0	78	19	5	8	1	90	8	7
6	Boston Children's Hospital	94.7	10	11	41	23	24	4.2	15	11	3	11	21	1	38.9	77	19	5	9	1	78	8	7
7	Texas Children's Hospital, Houston	92.6	11	12		24	27	4.5	16	11	3	11	21	1	8.6	80	18	5	10	1	79	8	7
8	Children's Healthcare of Atlanta	89.8	11	11	38	24	22	5.2	15	11	3	10	21	1	12.3	74	19	5	10	1	75	8	7
9	Children's National Hospital, Washington	89.5	11	12	41	23	23	4.5	15	11	3	11	21	1	4.9	79	19	5	9	1	90	8	7
10	Nemours Children's Hospital-Delaware, Wilmington	88.1	11	10	40	19	24	3.3	16	11	3	10	21	1	13.0	78	17	5	9	1	84	8	7
11	Children's Hospital Colorado, Aurora	86.5	11	8	38	23	27	4.4	16	11	3	10	21	1	13.3	78	19	5	10	1	82	8	7
12	Seattle Children's Hospital	86.2	11	13	38	17	19	3.8	5	11	3	10	21	1	6.3	75	17	5	10	1	74	8	7
13	Rainbow Babies and Children's Hospital, Cleveland	82.7	11	10	40	20	22	4.1	15	11	3	11	21	1	5.1	77	19	5	4	1	90	8	7
14	St. Louis Children's HospWashington U./Shriners Children's St. Louis	82.6	11	9	38	24	25	3.6	15	11	3	11	21	1	6.0	78	19	5	9	1	73	8	7
15	Mayo Clinic Children's Center, Rochester, Minn.	81.8	11	13	36	8	19	4.4	15	11	3	11	21	1	2.3	78	19	5	2	1	90	8	7
16	Nationwide Children's Hospital, Columbus, Ohio	81.7	8	11	40	22	27	3.2	15	11	3	11	21	1	7.9	77	19	5	10	1	85	8	7
17	Lerner Children's Pavilion-Hospital for Special Surgery, New York	80.1	11	10	41	12	23	6.2	12	11	3	11	20	1	2.2	77	19	5	8	1	90	8	7
18	Joe DiMaggio Children's Hospital at Memorial, Hollywood, Fla.	80.0	11	12	36	21	24	3.9	14	11	3	11	20	1	0.9	79	19	5	0	1	79	8	7
19	Cohen Children's Medical Center, New Hyde Park, N.Y.	79.2	10	12	39	18	21	4.5	15	11	3	11	21	1	0.4	79	19	5	3	1	90	8	7
20	Akron Children's Hospital, Akron, Ohio	78.0	11	11	38	17	23	3.3	16	11	3	10	20	1	0.8	73	19	5	5	1	90	8	7
21	Johns Hopkins Children's Center, Baltimore	76.2	8	12	38	13	19	3.6	13	11	3	11	21	1	3.2	79	18	5	7	1	88	8	7
22	Cleveland Clinic Children's Hospital	75.7	11	10	41	13	14	5.0	7	11	3	8	21	1	1.3	76	19	5	6	1	90	8	7
23	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	75.4	11	9	38	12	23	4.5	16	11	3	9	21	1	2.9	72	15	5	8	1	70	8	7
24	Cook Children's Medical Center, Fort Worth, Texas	75.1	11	13	36	15	16	3.6	11	11	3	4	20	1	0.6	69	19	5	3	1	64	8	7
25	Levine Children's Hospital, Charlotte, N.C.	74.8	11	11	40	15	17	3.6	13	11	3	10	20	1	0.7	70	19	5	0	1	90	8	7
	Nicklaus Children's Hospital, Miami	74.8	11	10	33	23	22	2.8	15	10	2	11	21	1	1.1	80	16	5	7	1	70	8	7
	Johns Hopkins All Children's Hospital, St. Petersburg, Fla.	73.8	11	9	40	17	17	4.2	13	11	3	11	21	1	0.7	79	16	5	2	1	77	8	7
	Riley Hospital for Children at IU Health, Indianapolis	73.6	10	9	31	23	21	3.9	16	10	3	10	21	1	1.6	75	19	5	10	1	80	8	7
29	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	73.5	9	8	38	21	19	4.0	13	11	3	11	21	1	6.1	75	15	5	8	1	79	8	7
30	Dell Children's Medical Center, Austin, Texas	73.3	11	10	37	17	21	4.1	15	10	3	11	21	1	1.0	66	19	5	1	1	84	8	7
	Norton Children's Hospital, Louisville, Ky.	73.3	11	11	39	16	20	3.9	13	11	3	11	21	0	0.1	73	18	5	5	1	90	8	7
32	UC Davis Children's Hospital/Shriners Children's N. Calif., Sacramento	73.1	8	9	37	17	24	7.2	17	11	3	9	21	1	4.7	76	19	5	7	1	90	8	7
33	UPMC Children's Hosp. of Pittsburgh-Shriners Hosps. for Children Erie	73.0	11	7	40	21	19	3.1	15	11	3	10	21	1	1.7	73	19	5	9	1	89	8	7
34	North Carolina Children's Hospital at UNC, Chapel Hill	72.7	9	12	38	13	14	3.9	16	11	3	7	21	1	0.9	65	19	5	8	1	85	8	7
35	Children's Mercy Kansas City Hospital, Kansas City, Mo.	72.3	8	10	35	21	23	4.0	15	11	3	10	21	1	1.4	77	19	5	9	1	80	8	7
	Valley Children's Healthcare and Hospital, Madera, Calif.	71.4	9	13	40	21	17	4.1	8	11	3	11	21	1	0.3	70	19	5	1	0	90	8	6
37	Dayton Children's Hospital, Dayton, Ohio	71.2	11	10		17	23	4.9	15	11	2	10	20	1	0.3	74	19	5	1	1	68	7	6
38	Ann and Robert H. Lurie Children's Hospital of Chicago	71.1	11	7	37	11	25	3.1	14	11	3	9	21	1	4.3	66	19	5	9	1	77	8	7
39	Intermountain Primary Children's-Shriners Hosps U. of Utah, Salt Lake City	70.8	9	8	34	22	26	3.3	15	11	3	11	21	1	4.0	72	19	4	9	1	74	8	7
40	Nemours Children's Hospital-Florida, Orlando	70.4	10	10	41	17	17	4.2	7	11	3	10	21	0	1.8	76	16	5	5	1	85	8	7
41	Le Bonheur Children's Hospital, Memphis, Tenn.	70.2	11	7	37	16	15	3.0	14	8	3	11	21	1	2.4	77	19	5	7	1	76	8	
42	UCLA Mattel Children's Hospital, Los Angeles	70.0	9	9	29	14	25	4.0	16	10	3	10	21	1	3.1	75	18	5	7	1	78	8	7
43	UCSF Benioff Children's Hospitals, San Francisco and Oakland	69.9	9	7	41	16	20	4.1	16	11	3	9	21	1	2.8	73	19	5	9	1	80	8	7
44	New York-Presbyterian Children's Hospital-Columbia and Cornell	69.7	9	9	39	10	18	3.5	15	10	3	4	21	1	4.0	73	15	5	9	1	78	8	7
	Arkansas Children's Hospital, Little Rock University of Virginia Children's Hospital, Charlottesville	69.6 69.5	11	7	38	20 6	18 19	3.3 2.9	15 6	11	3	10	21	1	0.8	76 76	16 19	5	3	1	87 89	8	7
	oniversity or virginia Children's Hospital, Chanottesville	09.3	10	10	29	ľ	19							1			19	٦	ر	1	09		
	Bristol-Myers Squibh Children's Hosp at DWILIH Now Brunswick N. 1	60.2	1.1	10	3/1	12	1/	20	7	10	3	5	10	1	0 2	76	16	5	7	1	an	Q	
47	Bristol-Myers Squibb Children's Hosp at RWJUH, New Brunswick, N.J.	69.2	11	10	34	12	14	2.9	7	10	3	5	19 20	1	0.3	76 74	16 17	5	7	1	90	8	7
	Bristol-Myers Squibb Children's Hosp at RWJUH, New Brunswick, N.J.  Ochsner Hospital for Children, New Orleans  U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	69.2 69.2 68.6	11 11 9	10 10 9	34 34 35	12 14 9	14 12 21	2.9 3.0 6.0	7 10 14	10 11 11	3 3	5 9 11	19 20 21	1 1 1	0.3 0.5 1.6	76 74 75	16 17 17	5 5	7 1 5	1 1 1	90 90 82	8 8	7

	Best Children's Hospital 2024-25: Pulmonology & Lung Surgery	Overall Score	Success with asthma inpatients	Success in helping patients manage their asthma	Success in managing cystic fibrosis patients	Success in managing neuromuscular weakness disorder		Ability to prevent infections in intensive-care units	Ability to prevent pressure injuries	Survival after lung transplant	Number of patients	Number of tests and noninvasive procedures	Nurse staffing	Lung transplant program	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
Rank 1	Hospital Cincinnati Children's, Cincinnati	100	7	<b>5</b> 15	<b>ග</b>	3	47	<b>4</b> 3	4	<b>S</b>	17	12	4.2	5.0	<b>4</b> 2	10	2	11	1	39	52.0	19	5	9	3	87	8	7
2	Texas Children's Hospital, Houston	98.2	8	15	15	3	50	4	5	5	17	12	4.5	5.0	42	10	2	11	1	33	52.0	18	5	9	3	79	8	7
3	Children's Hospital of Philadelphia	96.2	8	15	17	3	51	3	4	4	17	12	4	5.0	43	10	2	11	1	44	51.0	16	5	9	3	78	8	7
4	Boston Children's Hospital	92.5	7	13	16	3	50	4	3	3	17	12	4.2	5.0	42	10	2	11	1	40	51.0	19	5	8	3	78	8	7
5	Nationwide Children's Hospital, Columbus, Ohio	90.8	8	15	16	3	49	5	4	2	17	12	3.2	5.0	42	10	2	11	1	14	51.0	19	5	9	3	85	8	7
6	Children's Hospital Colorado, Aurora	89.1	8	15	17	3	49	2	4	NR	16	12	4.4	1.0	42	10	2	11	1	39	52.0	19	5	9	3	82	8	7
7	Riley Hospital for Children at IU Health, Indianapolis	88.3	8	15	17	3	35	5	5	2	15	10	3.9	2.0	43	9	2	11	1	14	52.0	19	5	9	3	80	8	7
8	UPMC Children's Hospital of Pittsburgh	86.9	7	12	16	3	48	5	4	5	14	7		5.0	42	10	2	10	1	13	52.0	19	5	8	2	89	8	7
9	Seattle Children's Hospital	85.7	6	14	17	3	49	4	4	NA	14	12	3.8		34	10	2	11	1	24		17	5	9	3	74	8	7
10	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	85.1	8	15	14	3	49	5	4	3	16	11	4.5	5.0	41	10	2	11	1	11	51.0	15	5	7	3	70	8	7
11	Children's Hospital Los Angeles	82.6	8	14	17	0	49	5	5	NA	13	12	4.2	NA	42	10	2	11	1	12	51.0	19	5	7	2	90	8	7
12	Children's National Hospital, Washington	80.5	8	15	13	3	47	5	5	NA	13	12	4.5	NA	42	10	2	11	1	11	52.0	19	5	8	2	90	8	7
13	Johns Hopkins Children's Center, Baltimore	80.4	8	15	15	3	49	4	5	NR	15	9	3.6	1.0	42	10	2	11	1	9.2	52.0	18	5	7	3	88	8	7
14	North Carolina Children's Hospital at UNC, Chapel Hill	79.7	6	13	16	3	47	4	4	3	10	8	3.9	4.0	43	10	2	11	1	11	51.0	19	5	6	3	85	8	7
15	Rainbow Babies and Children's Hospital, Cleveland	78.6	8	15	16	3	49	5	5	NA	13	9	4.1	NA	43	10	2	11	1	4.1	50.0	19	5	6	3	90	8	7
16	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	78.4	8	13	17	3	45	4	5	NR	14	12	4	1.0	42	10	2	11	1	6.1	51.0	15	5	7	3	79	8	7
17	New York-Presbyterian Children's Hospital-Columbia and Cornell	76.5	8	10	14	2	43	5	4	5	12	9	3.5	5.0	42	9	2	11	1	5	51.0	15	5	7	3	78	8	7
18	Rady Children's Hospital, San Diego	76.0	7	14	17	3	49	5	5	NR	13	11	4.7	1.0	41	10	2	11	1	2.6	51.0	19	5	7	2	90	8	7
19	Cohen Children's Medical Center, New Hyde Park, N.Y.	73.7	8	14	16	3	51	5	5	NA	10	8	4.5	NA	41	10	2	11	1	1.6	51.0	19	5	5	2	90	8	7
20	Children's Medical Center Dallas	73.5	8	13	17	3	48	4	5	NA	15	12	4.4	NA	42	10	2	11	1	1.8	48.0	17	5	9	2	79	8	7
20	St. Louis Children's Hospital-Washington University	73.5	6	13	16	3	42	4	4	1	14	11	3.6	5.0	42	10	2	11	1	8	51.0	19	5	8	2	73	8	7
22	Children's Healthcare of Atlanta	73.2	7	15	17	3	43	3	5	NA	15	12	5.2	NA	43	10	2	11	1	3.5	51.0	19	5	9	3	75	8	7
23	Ann and Robert H. Lurie Children's Hospital of Chicago	71.3	6	14	17	3	44	5	2	NA	13	11	3.1	NA	41	10	2	11	1	7.4	44.0	19	5	7	3	77	8	7
23	UF Health Shands Children's Hospital, Gainesville, Fla.	71.3	8	14	15	3	41	5	5	5	13	7	2.9	4.0	41	8	2	9	1	1.6	50.0	14	5	6	2	74	8	7
25	UCSF Benioff Children's Hospitals, San Francisco and Oakland	71.1	7	14	15	2	49	4	5	NA	13	11	4.1	NA	43	10	2	10	1	2.4	52.0	19	5	8	3	80	8	7
26	Le Bonheur Children's Hospital, Memphis, Tenn.	69.0	8	14	17	3	44	5	5	NA	10	9	3	NA	36	7	2	11	1	1.8	46.0	19	5	7	2	76	8	7
27	SSM Health Cardinal Glennon Children's Hospital-St. Louis University	68.7	8	13	17	3	45	5	5	NA	7	9	3.9	NA	40	8	2	11	1	1.1	47.0	19	5	4	2	84	8	7
28	Children's Mercy Kansas City Hospital, Kansas City, Mo.	68.6	8	11	16	3	44	5	4	NA	12	9	4	NA	36	10	2	11	1	2	42.0	19	5	9	2	80	8	7
29	Arkansas Children's Hospital, Little Rock	68.4	7	15	17	3	41	5	5	NA	11	9	3.3		42	10	2	11	1	1.2		16	5	7	2	87	8	7
30	Duke Children's Hospital and Health Center, Durham, N.C.	66.4	6	13	16	3	48	5	3	2	10	7	3.5		33	10	2	11	1	1.3		15	5	7	1	87	8	7
31	CHOC Children's Hospital, Orange, Calif.	66.1	8	15	17	3	44	3	5	NA	13	11	3.7		42	10	2	11	1	1	49.0		5	2	3	54	8	7
32	Levine Children's Hospital, Charlotte, N.C.	65.8	7	13	17	3	45	5	4	NA	12	11	3.6		41	10	2	10	1	0.1		19	5	0	2	90	8	7
33	Nicklaus Children's Hospital, Miami	65.5	8	13	17	3	44	5	3	NA	11	4	2.8		41	9	2	11	1			16	5	6	2	70	8	7
33	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	65.5	7	13	17	3	38	3	2	NA	14	11		NA	42	10	2	11	1	2.1		17	5	8	3	82	8	7
35	Valley Children's Healthcare and Hospital, Madera, Calif.	64.8	7	13	14	3	52	5	5	NA	13	10	4.1		36	10	2	10	1		51.0		5	1	2	90	8	6
36	Mayo Clinic Children's Center, Rochester, Minn.	64.7	8	11	15	3	40	5	5	NA	7	8	4.4		41	10	2	11	1	0.9		19	5	4	1	90	8	7
36	UC Davis Children's Hospital, Sacramento, Calif.	64.7	8	12	14	3	41	5	4	NA	10	8	7.2		41	10	2	10	1			19	5	5	2	90	8	7
38	Children's Nebraska, Omaha	64.3	8	15	17	3	45	3	5	NA	14	10	2.6		37	10	1	11	1	0.2		19	5	6	2	90	8	7
39	Cleveland Clinic Children's Hospital	64.2	8	14	15	0	47	4	4	NA	12	11		NA	33	10	2	11	1	0.7		19	5	6	2	90	8	7
40	Connecticut Children's Medical Center, Hartford	64.1	8	11	16	3	40	5	5	NA	10	8	2.8		43	8	2	11	1	0.1		19	5	3	2	86	8	7
41	Dell Children's Medical Center, Austin, Texas	63.8	8	14	15	3	43	5	5	NA	9	6	4.1		42	9	2	11	1	0.7		19	5	1	2	84	8	7
42	Children's Wisconsin Hospital, Milwaukee	63.0	7	14	17	3	41	4	3	NA NR	13 9	10	4.4 2.0		41	10	2	10	1	0.7		15	5	7	2	56	8	7
	University of Virginia Children's Hospital, Charlottesville	62.7	7	13	17 15	3	43	4	3			5	2.9		34	10	2	10	1	0.4	51.0	19 17	5	8	2	89	8	7
44	Nemours Children's Hospital-Delaware, Wilmington	62.1		13		1		5		NA NA	11	10	3.3		41	10		11	1				5	7	1	84	8	7
44	Phoenix Children's Hospital  Interropuntain Primary Children's Hospital II. of Illah Salt Lake City	62.1	7	13	15	3	47	5	2	NA NA	14	11	3.3		41	10	2		1			19		5	2	87		7
46	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	62.0	7	13 15	16 15	2	39 50	5	5	NA NA	14	11	3.3		41	10	2	11	0	_	51.0 51.0	19	4 5	5	2	74 90	8	7
46	Norton Children's Hospital, Louisville, Ky.	61.5		13	15	3	48	5	5	NA NA	11	11	3.9		37	10	2	10		0.3	50.0	19	5	1	2		8	7
40	Cook Children's Medical Center, Fort Worth, Texas		6						5	NA NA	11	5	4.2		40	10	2		1							64 87	8	7
49	Amold Palmer Hospital for Children, Orlando, Fla.	60.3	8	15	13	3	44	4										11		0.1	50.0	10	5	1	2			

Rank	Best Children's Hospital 2024-25: Urology  Hospital	Overall Score	Ability to prevent surgical complications	Speed in treating testicular torsion	Ability to prevent infections throughout hospital	Number of patients	Number of surgeries	Number of minimally invasive procedures	Nurse staffing	Advanced clinical services offered	Clinical support services offered	Advanced technologies available	Specialized clinics and programs available	Has fulltime subspecialists available	Recognized as Nurse Magnet hospital	Expert Opinion	Commitment to best practices	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
1	Boston Children's Hospital	100	15	2	35	10	24	6	4.2	3	10	8	9	14	1	47.5	41	19	5	6	4	78	8	7
2	Texas Children's Hospital, Houston	92.5	13	2	34	9	23	5	4.5	3	10	8	9	13	1	25.8	41	18	5	7	4	79	8	7
3	Children's Hospital of Philadelphia	90.8	12	2	35	9	22	6	4.0	4	10	8	9	13	1	49.2	41	16	5	7	4	78	8	7
4	Children's Hospital Los Angeles	90.6	15	2	34	12	22	3	4.2	4	10	8	9	12	1	12.2	41	19	5	5	4	90	8	7
5	Riley Hospital for Children at IU Health, Indianapolis	85.1	12	2	25	9	23	5	3.9	4	9	8	9	12	1	33.5	41	19	5	7	4	80	8	7
6	Children's Hospital Colorado, Aurora	84.0	12	2	32	9	21	4	4.4	3	10	8	9	13	1	17.7	41	19	5	7	4	82	8	7
6	Nationwide Children's Hospital, Columbus, Ohio	84.0	11	2	34	9	23	5	3.2	3	10	8	9	13	1	21.8	41	19	5	7	4	85	8	7
8	Children's Medical Center Dallas	82.8	14	2	34	8	22	4	4.4	3	10	8	9	13	1	11.2	41	17	5	7	2	79	8	7
9	Cincinnati Children's, Cincinnati	81.5	13	1	34	10	22	5	4.2	4	10	8	9	13	1	26.4	41	19	5	7	4	87	8	7
10	Rady Children's Hospital, San Diego	80.8	15	2	35	8	17	3	4.7	3	10	7	9	14	1	6.9	41	19	5	3	3	90	8	7
11	Children's National Hospital, Washington	80.4	11	2	35	9	22	4	4.5	3	10	8	9	13	1	14.3	41	19	5	6	4	90	8	7
11	UPMC Children's Hospital of Pittsburgh	80.4	13	2	34	11	17	6	3.1	4	10	8	9	13	1	8.8	41	19	5	6	3	89	8	7
13	Seattle Children's Hospital	78.3	11	2	32	8	20	4	3.8	2	10	8	7	13	1	22.9	40	17	5	7	3	74	8	7
14	Children's Healthcare of Atlanta	76.8	13	2	32	7	22	5	5.2	4	10	8	6	13	1	7.0	41	19	5	7	3	75	8	7
15	Ann and Robert H. Lurie Children's Hospital of Chicago	76.1	9	2	31	8	21	5	3.1	3	10	8	9	13	1	37.0	41	19	5	6	4	77	8	7
16	Cohen Children's Medical Center, New Hyde Park, N.Y.	74.3	15	2	33	8	20	2	4.5	3	10	8	8	13	1	2.0	41	19	5	4	3	90	8	7
16	Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	74.3	9	2	32	8	22	5	4.0	3	10	7	9	13	1	25.5	40	15	5	5	3	79	8	7
18	Yale New Haven Children's Hospital, New Haven, Conn.	72.6	15	2	29	7	17	2	3.6	4	10	8	8	13	1	3.0	41	16	5	3	4	88	8	7
19	Duke Children's Hospital and Health Center, Durham, N.C.	71.8	13	2	33	6	17	2	3.5	3	10	7	9	13	1	6.7	41	15	5	4	4	87	8	7
20	Children's Mercy Kansas City Hospital, Kansas City, Mo.	70.4	14	2	29	6	18	3	4.0	3	10	8	9	13	1	1.8	41	19	5	5	4	80	8	7
20	UCSF Benioff Children's Hospitals, San Francisco and Oakland	70.4	10	2	35	6	16	3	4.1	3	10	8	9	14	1	9.0	41	19	5	6	4	80	8	7
22	Nemours Children's Hospital-Delaware, Wilmington	70.0	14	2	34	7	17	4	3.3	3	10	8	8	13	1	1.0	41	17	5	6	3	84	8	7
23	CHOC Children's Hospital, Orange, Calif.	68.5	13	2	30	8	19	2	3.7	3	10	7	9	13	1	5.1	40	19	5	4	4	54	8	7
24	Rainbow Babies and Children's Hospital, Cleveland	68.3	14	2	34	6	13	2	4.1	3	10	8	9	12	1	2.0	40	19	5	2	3	90	8	7
25	Norton Children's Hospital, Louisville, Ky.	67.9	14	2	33	8	20	6	3.9	3	10	7	7	13	0	1.4	41	18	5	5	4	90	8	7
26	Johns Hopkins Children's Center, Baltimore	67.8 67.0	11	2	32	7	14	2	3.6	2	10 9	6 8	8	13	1	9.7	40	18 15	5	5	4	88 78	8	7
27	New York-Presbyterian Children's Hospital-Columbia and Cornell						1				_				1									_
28	Cleveland Clinic Children's Hospital  Mayo Clinic Children's Center, Rochester, Minn.	66.6	13	2	35	7	13	2	5.0	2	10	7	9	14	1	1.3	41	19 19	5	4	4	90	8	7
29 30	Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	66.5	12	2	30	6	16 15	3	4.4	3	10	8	9	11	1	5.9 3.4	41	15	5	3	4	70	8	7
31	UCLA Mattel Children's Hospital, Los Angeles	64.2	14	2	23	6	13	3	4.0	3	9	8	8	12	1	1.7	41	18	5	4	4	78	8	7
32	North Carolina Children's Hospital at UNC, Chapel Hill	63.6	12	2	32	7	18	5	3.9	4	10	8	9	13	1	0.7	40	19	5	5	2	85	8	7
33	Valley Children's Healthcare and Hospital, Madera, Calif.	63.0	14	2	34	5	18	2	4.1	3	10	7	9	13	1	0.6	41	19	5	1	1	90	8	6
34	University of Iowa Stead Family Children's Hospital, Iowa City	62.6	12	2	26	6	18	3	3.6	3	10	8	8	13	1	4.7	39	19	5	2	4	90	8	7
35	Intermountain Primary Children's Hospital-U. of Utah, Salt Lake City	61.5	10	2	28	9	22	5	3.3	3	10	8	9	13	1	4.8	41	19	4	4	4	74	8	7
35	RWJBarnabas Children's Health, New Brunswick, N.J.	61.5	13	2	29	7	18	6	3.0	3	10	7	9	12	1	0.3	40	17	5	1	4	90	8	7
37	St. Louis Children's Hospital-Washington University	61.0	11	2	32	7	19	4	3.6	2	10	8	9	13	1	2.5	41	19	5	4	3	73	8	7
38	Levine Children's Hospital, Charlotte, N.C.	60.4	13	2	34	8	16	3	3.6	2	10	6	8	12	1	0.5	40	19	5	0	3	90	8	7
39	MassGeneral Hospital for Children, Boston	59.8	13	2	25	6	11	2	3.8	2	10	8	7	11	1	2.1	41	19	5	3	4	78	8	7
40	Loma Linda University Children's Hospital, Loma Linda, Calif.	59.7	13	2	23	6	18	4	3.6	3	10	6	9	12	1	0.0	41	19	5	4	4	85	8	7
41	Le Bonheur Children's Hospital, Memphis, Tenn.	59.0	11	2	31	6	14	2	3.0	3	7	7	6	13	1	4.3	40	19	5	5	4	76	8	7
42	Johns Hopkins All Children's Hospital, St. Petersburg, Fla.	58.7	13	2	34	9	11	1	4.2	2	10	8	9	13	1	0.5	40	16	5	1	2	77	8	7
43	U. of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	58.3	11	2	29	6	16	3	6.0	2	10	7	8	13	1	3.4	40	17	5	4	3	82	8	7
44	West Virginia University Children's Hospital, Morgantown	57.7	14	2	24	7	13	3	2.8	3	10	8	8	12	1	0.9	40	13	5	0	4	89	8	7
45	Children's Memorial Hermann Hospital, Houston	57.6	13	2	30	5	18	3	3.5	2	10	6	5	13	1	1.0	39	14	5	4	3	85	8	7
46	Phoenix Children's Hospital	57.3	11	2	34	9	18	4	3.3	3	10	8	9	13	0	1.9	41	19	5	4	3	87	8	7
47	Children's Wisconsin Hospital, Milwaukee	56.8	11	2	28	8	19	3	4.4	2	10	7	8	13	1	2.9	40	15	5	5	3	56	8	7
					_	_	-	_	_	-				13		0.8	-				4	84	8	7
48	SSM Health Cardinal Glennon Children's Hospital-St. Louis University	56.4	11	2	33	4	13	3	3.9	2	8	8	9	13	1	0.0	40	19	5	2	4	04		
48 49	SSM Health Cardinal Glennon Children's Hospital-St. Louis University Hackensack Meridian Health Sanzari & Hovnanian Children's Hosps., N.J.	56.4 54.9	11	2	33	7	13	2	2.8	2	10	7	7	13	1	0.8	40	17	5	1	2	90	8	7

Hospital (listed alphabetically)	Medication safety screening	Speed/efficiency of assessment in	Number of patients	Nurse staffing	Clinical support services offered	Specialized clinics and programs available	Emergency Department and Urgent Care Behavioral Health	Has fulltime subspecialists available	Recognized as Nurse Magnet hospita	Expert Opinion	Commitment to best practices	Prevention/reduction of side effects of	Commitment to quality improvement	Adoption of health information technology	Active fellowship programs	Commitment to clinical research	Commitment to diversity, equity, and inclusion	Help for families	Enlists families in structuring care
AdventHealth for Children, Orlando, Fla.	4	1	53	3.5	8	81	11	12	1	0.1	85	19	18	5		4	68	15	7
Akron Children's Hospital, Akron, Ohio	2	1	101	3.3	15	81	9	12	1	0.5	89	15	18	5	12	4	90	15	7
Ann and Robert H. Lurie Children's Hospital of Chicago	5	3	60	3.1	16	81	13	11	1	6.3	98	19	18	5	13	4	77	15	7
Arnold Palmer Hospital for Children, Orlando, Fla.	5	1	51	4.2	16	80	13	12	1	0.1	93	18	17	5	4	4	87	15	7
Boston Children's Hospital	3	1	109	4.2	15	81	13	12	1	18.2	99	19	18		15	4	78	15	7
Children's Hospital at Montefiore, Bronx, N.Y.	4	1	41	5.2	7	81	12	12	0	1.6	92	16	18	5	_	4	88	15	7
Children's Hospital Colorado, Aurora	3	1	113	4.4	16	81	13	15	1	6.5	105	19	18		_	4	82	15	7
Children's Hospital Los Angeles  Children's Hospital of Alabama at UAB Rismingham	1	2	52	4.2	7	81	8	13 11	1	4.0	103	17	18 15		$\rightarrow$	4	90	15	7
Children's Hospital of Alabama at UAB, Birmingham Children's Hospital of Philadelphia	5	1	55 98	4.0	12 8	79 81	10	13	0	0.5 16.2	94	16 19	18		_	4	75 78	12 15	7
Children's Hospital of Richmond at VCU, Richmond, Va.	3	1	63	3.3	16	77	13	12	1	0.5	84	19	16		_	4	89	15	7
Children's Medical Center Dallas	3	1	100	4.4	15	81	11	14	1	1.5	101	19	18		_	4	79	15	7
Children's Mercy Kansas City Hospital, Kansas City, Mo.	3	3	96	4.0	7	77	11	14	1	1.6	76	19	17		_	4	80	13	7
Children's National Hospital, Washington	6	1	114	4.5	16	81	14	15	1	7.7	108	19	18	5	15	4	90	15	7
Children's Wisconsin Hospital, Milwaukee	3	2	89	4.4	7	64	12	10	1	1.0	75	18	17	5	13	3	56	15	7
CHOC Children's Hospital, Orange, Calif.	4	2	81	3.7	12	81	11	12	1	2.2	89	18	17	5	12	4	54	13	7
Cincinnati Children's, Cincinnati	2	1	104	4.2	15	81	13	13	1	12.3	106	19	18		16	4	87	15	7
Cleveland Clinic Children's Hospital	2	3	107	5.0	16	81	13	14	1	1.3	100	19	18		14	3	90	14	7
Cohen Children's Medical Center, New Hyde Park, N.Y.	4	2	74	4.5	16	81	13	15	1	3.0	101	19	18		_	4	90	15	7
Cook Children's Medical Center, Fort Worth, Texas	3	3	82	3.6	16	73	10	13	1	0.4	94	16	17	5	_	4	64	15	7
Dayton Children's Hospital, Dayton, Ohio	0	3	50 52	5.0 4.1	16	81 77	8 12	11 13	1	0.3	90	19	17 18	-	_	3	68	14	6 7
Dell Children's Medical Center, Austin, Texas Hackensack Meridian Health JM Sanzari and K Hovnanian Children's Hosp., Hackensack, N		2	75	2.8	16 14	81	14	14	1	0.6	89 103	18 19	18		_	4	90	15	7
Intermountain Primary Children's Hospital-University of Utah, Salt Lake City	3	3	98	3.3	14	81	13	11	1	1.7	97	19	18		_	4	74	15	7
Joe DiMaggio Children's Hospital at Memorial, Hollywood, Fla.	2	2	59	3.9	14	81	11	14	1	0.1	89	19	16	5	_	2	79	15	7
Johns Hopkins Children's Center-Kennedy Krieger Institute, Baltimore	2	1	74	3.6	16	81	13	12	1	10.2	100	19	18	5	15	4	88	14	7
Kentucky Children's Hospital, Lexington	3	3	49	2.8	15	81	12	12	1	0.4	75	16	18	5	11	3	73	14	7
Levine Children's Hospital, Charlotte, N.C.	1	2	86	3.6	14	81	10	13	1	0.3	94	18	17	5	7	3	90	15	7
Lucile Packard Children's Hospital Stanford, Palo Alto, Calif.	3	1	55	4.5	14	81	7	14	1	6.4	92	18	18	5	12	4	70	15	7
Mayo Clinic Children's Center, Rochester, Minn.	3	2	44	4.4	15	81	12	13	1	1.7	98	17	18			4	90	15	7
Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, Tenn.	2	1	70	4.0	11	80	11	15	1	2.2	85		18		_			15	-
Nationwide Children's Hospital, Columbus, Ohio	4	2	117	3.2	16	81	11	14	1	12.6	96	19	18		_	4	85	15	7
Nemours Children's Hospital-Delaware, Wilmington  New York-Presbyterian Children's Hospital-Columbia and Cornell	2	1	73 80	3.3	16	81	13	14 14	1	1.7	95 103		18 17	_	_	4	84 78	15 15	-
North Carolina Children's Hospital at UNC, Chapel Hill	6	2	68	3.9	16	81	11	14	1	1.9	106	18	18	5		4	85	15	-
Norton Children's Hospital, Louisville, Ky.	6	3	86	3.9	14	81	10	12	0	0.6	100	19	18		_	4	90	15	-
Penn State Health Children's Hospital, Hershey, Pa.	3	0	58	2.8	13	81	10	13	1	0.5	96	19	18	-	-	4	70	14	7
Phoenix Children's Hospital	3	0	102	3.3	14	81	13	13	0	0.3	91	18	18	5	12	4	87	15	7
Rady Children's Hospital, San Diego	3	3	117	4.7	16	81	11	14	1	3.2	106	19	18	5	15	4	90	15	7
Rainbow Babies and Children's Hospital, Cleveland	1	1	47	4.1	16	80	13	13	1	1.4	98	18	18	5	14	4	90	15	7
Riley Hospital for Children at IU Health, Indianapolis	3	2	73	3.9	15	81	8	13	1	1.6	101	15	18		16	4	80	15	7
Seattle Children's Hospital	2	1	76	3.8	16	81	12	13	1	6.6	99	18	17		-	4	74	15	-
St. Louis Children's Hospital-Washington University	4	2	77	3.6	15	81	12	15	1	2.8	90		18		_	4	73	15	-
Texas Children's Hospital, Houston	1	3	103 72	7.2	16 16	79 81	13	15 13	1	4.9 1.1	93	17 18	18 17	-		4	79 90	15 15	7
UC Davis Children's Hospital, Sacramento, Calif.  UCLA Mattel Children's Hospital, Los Angeles	0	3	55	4.0	16	81	8	12	1	7.6	86	19	15		_	4	78	14	7
UCSF Benioff Children's Hospitals, San Francisco and Oakland	4	2	69	4.1	8	81	13	14	1	5.8	83		18		_	4	80	15	-
UF Health Shands Children's Hospital, Gainesville, Fla.	4	1	73	2.9	16	81	12	12	1	0.5	87	15	15	5	_	4	74	15	-
University of Chicago Comer Children's Hospital	6	3	39	4.4	6	80	8	8	1	0.9	65	17	17	5	11	4	66	14	7
University of Iowa Stead Family Children's Hospital, Iowa City	3	1	99	3.6	15	81	12	13	1	0.1	95	18	18	5	10	4	90	15	7
University of Michigan Health C.S. Mott Children's Hospital, Ann Arbor	4	1	90	6.0	12	81	7	13	1	2.3	82	18	18	5	14	4	82	15	7
University of Rochester-Golisano Children's Hospital, Rochester, N.Y.	2	0	57	3.3	14	81	10	12	1	1.3	101	19	18		_	4	79	15	7
UPMC Children's and Western Psychiatric Hospitals, Pittsburgh	3	3	99	3.1	16	80	11	13	1	8.4	94		18		_	4	89	15	-
Wolfson Children's Hospital, Jacksonville, Fla.	3	0	49	3.0	14	81	12	14	1	0.1	94	19	16	5	12	4	84	14	7

# Appendix D

2024-25 Best Children's Hospitals Honor Roll

# 2024-25 Best Children's Hospitals Honor Roll

Hospital (listed alphabetically)
Boston Children's Hospital
Children's Hospital Colorado, Aurora
Children's Hospital Los Angeles
Children's Hospital of Philadelphia
Children's National Hospital, Washington
Cincinnati Children's, Cincinnati
Nationwide Children's Hospital, Columbus, Ohio
Rady Children's Hospital, San Diego
Seattle Children's Hospital
Texas Children's Hospital, Houston