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World's Best Hospitals 2025 – Methodology

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1 Introduction

Patients are faced with the critical and difficult decision of choosing the right hospital for their medical needs, a choice that was often determined solely by word of mouth or the recommendation by a single physician (e.g., their general practitioner) in the past. Structural characteristics of a hospital, such as its number of beds or its number of medical staff, are unreliable indicators for quality of care and therefore not suited as a basis for decision-making. In the last decade, the number of web-based portals, websites, and databases that aim to help with this decision by providing data about hospitals has increased, ranging from relatively short and superficial news articles to specific databases with multiple quality indicators per hospital within a specific country. However, none of the available resources to date have attempted a methodologically sound international ranking of hospitals based on a comprehensive score that gives an indication of where each hospital stands relative to its peers. Most available resources do not even feature a full overview of the major hospitals in one country, instead focusing on certain specialties or diseases, much less a ranking of these hospitals.

The World's Best Hospitals 2025 ranking is a project which aims to close this gap by **ranking the best hospitals across the world**. Its vision is to establish the ranking as the best and most comprehensive resource for global top lists in the hospital sector. Thirty countries are featured in the 2025 edition: USA, Germany, Japan, South Korea, France, Italy, United Kingdom, Spain, Brazil, Canada, India, Australia, Mexico, The Netherlands, Austria, Thailand, Switzerland, Sweden, Belgium, Finland, Norway, Denmark, Israel, Singapore, the United Arab Emirates, Colombia, Saudi Arabia, Taiwan, Chile, and Malaysia. The countries were selected mainly based on standard of living and life expectancy, population size, number of hospitals, and data availability.

The current 2025 edition of the ranking is an extension and update of the annual World's Best Hospitals ranking, which was first published by Newsweek and Statista in March 2019 and featured the top 1,000 hospitals in 11 countries. In the 2025 edition, **30 countries and 2,445 hospitals are featured in total** - the most extensive and international edition to date. The number of hospitals awarded in each country varies based on the number of existing hospitals, average hospital size (commonly approximated by number of inpatient beds), and data availability in the respective country. The list lengths vary, with 420 USA-based hospitals included, while Israel and Singapore are represented with 10 hospitals each.

Hospitals that are not accessible to the public and/or are very small were excluded from the ranking, as they were very unlikely to receive enough recommendations to make the final list and are not comparable to general hospitals in the range of services provided. The authors of this study used the average number of beds per hospital in each country as a guideline to identify very small hospitals, resulting in varying thresholds per country. This approach accounts for the substantial differences in average hospital sizes across countries and ensures a base level of comparability of national hospitals.

Every hospital in each country was rated with a score, which is based on four data sources:

- **Recommendations from medical experts** (doctors, hospital managers, healthcare professionals)
- Existing **patient satisfaction** data
- **Hospital quality metrics**
- **Statista Patient-Reported Outcome Measures (PROMs)** Implementation Survey

These rankings are only comparable for hospitals within the same country because different sources for patient experience and hospital quality metrics were examined in each country, and given the complexity of the various data sources, it was not possible to harmonize this data. For the same reason, cross-country comparisons of the raw values of the scores are also not possible (example: a score of 90 in country A does not necessarily mean that this hospital is better than a hospital with a score of 87 in country B).

Nevertheless, one aim of this project was to create a **Global Top 250 ranking**, based mainly on international recommendations from peers who were not from the same country in which the hospital is located. To achieve this, the number of international recommendations, the national ranking, the PROMs implementation excellence, and the quality metrics/patient satisfaction excellence were combined into a global rank, resulting in a Global Top 250 list (see chapter 1d).

The overall aim of this study is to provide the best possible data-based comparison of hospital reputation and performance across countries.

To this end, the World's Best Hospitals 2025 ranking is intended to be a resource to help patients make a more informed and data-driven decision when choosing the right hospital for their medical needs, as well as to provide a composite benchmark for hospitals

that is indicative of their relative performance when compared to their national and international peers.

2 Study Design

The following sections provide an overview of the study design and the underlying methodology used to determine the various rankings. First, the newly implemented features and changes in this year's edition will be described. Second, the general approach is outlined in chapter 2.2, followed by a description of the role of the global board of medical experts (chapter 2.3), the scoring model (2.4), and the approaches that were used to create a specialized hospital list and the Global Top 250 list. These approaches differ from the overall study design and are therefore described separately in chapters 2.5 and 2.6. This section is followed by a more in-depth description of specific rankings in chapter 2.

2.1 New features and changes in the 2025 edition

The following list provides a brief overview of all major changes in this year's edition compared to the World's Best Hospitals 2024 ranking:

- **Adjustment of the scoring weighting:** This year, the weighting of the hospital quality metrics pillar was increased again within the scoring model to reflect the emphasis on the medical key performance indicators. In addition, the weighting of the PROMs implementation pillar was increased.
- **Addition of new accreditations:** The Colombian Institute of Technical Standards and Certification (ICONTEC) for Colombia; the American Nurses Credentialing Center (ANCC) Magnet Organization certification for Australia, Brazil, Canada, Japan, Mexico, Saudi Arabia, the United Arab Emirates, and the United States; and the Planetree certification for Australia, Brazil, Colombia, Italy, Malaysia, the Netherlands, Saudi Arabia, the United Arab Emirates, and the United States have been added to the scoring model. Accreditations reflect a range of structural and/or quality requirements that are now relevant for the national rankings (see chapter 3).
- **Statista PROMs Implementation Survey:** The survey, eligibility thresholds, and display of participating hospitals have been updated.
- **New hospital quality metrics data sources:** Several new hospital data sources were added, most notably data from the Vlaams Instituut voor Kwaliteit van Zorg (VIKZ) for Belgium (see chapter 3.18 for details)

- **New patient satisfaction data sources:** New patient satisfaction data sources were added from the Landsdækkende Undersøgelse af Patientoplevelser (LUP) for Denmark and the Vlaams Instituut voor Kwaliteit van Zorg (VIKZ) for Belgium (see chapters 3.16 and 3.18 for details).
- **New quality metrics for the USA ranking:** New metrics from CMS such as health equity efforts and Patient Reported Outcomes, as well as data from the 2022 AHA Annual Survey of Hospitals Database have been included.
- **Global Top 250 List:** A bibliometric score¹ was added as a new pillar to the scoring model

2.2 General Methodology

The study design of the 2025 World's Best Hospitals project is based on four pillars:

Hospital evaluation is based on four pillars, ranging from peer evaluations and patient experience to quality metrics and PROMS implementation

Data sources



Hospital recommendations from peers: The peer recommendations were collected in two survey waves. First, Newsweek and Statista performed an online survey among tens of thousands of doctors, healthcare professionals, and hospitals managers in 30 countries. **Over 85,000 medical experts in the 30 surveyed countries were invited to participate** in the online survey.

¹ Relevant data points (publications, citations, h-index) were sourced from Exaly (<https://exaly.com/>)

The data was collected by Newsweek and Statista during an initial survey period from September to November 2024. The survey was also promoted on newsweek.com. Participants were asked to recommend hospitals in their own country as well as in other countries. The questionnaire did not suggest a list of recommended hospitals; therefore, respondents were free to suggest any hospital they deemed recommendable (merely aided by an autocomplete function for convenience). Self-recommendations were not allowed. Statista performed plausibility checks on all data to prevent self-nomination. Answers were then weighted based on (a) the type of respondent by profession (with doctors receiving the highest weight) and (b) the confidence respondents had in their vote (0–100%). The survey period resulted in more than 70,000 individual hospital recommendations.

Finally, the combined data was analyzed, and a national, as well as an international, recommendation score (0–100%) was calculated for every hospital in each country based on the weighted number of national and international recommendations. The hospital with the highest number of weighted national recommendations always received a national recommendation score of 100%. The next best hospitals, in general, received a score relative to the number of weighted national votes they received (e.g., when hospital A received the most votes with 100, hospital B with 80 votes received a score of $\frac{80}{100} = 80\%$). In some cases, mostly for smaller countries, where one hospital would accumulate significantly more votes than the next best hospitals, the scoring curve was smoothed slightly to reduce the drop-off in relative scores (e.g., the abovementioned hospital B would be adjusted to around 85% or 90% in the same situation, but always less than the leading hospital). Since the achieved score is relative only to other hospitals within the same country, this is a mathematically correct approach to grade hospitals by the received recommendations. The calculation of the international recommendation score was the same as with the national score, but the scoring drop-off was smoothed for all countries to account for the lower average number of international votes (without the smoothing factor, distribution is more skewed).

This year, the recommendations from the past two years were taken into account. Recommendations from the 2023 survey period were given less weight compared to those from 2024.

Patient experience: Publicly available data from existing patient surveys were used to analyze patient experience. Patient experience surveys are typically conducted by insurance companies among patients after their hospitalization, as well as by hospitals. Depending on the country and available data, these surveys range from basic satisfaction

questions to more sophisticated patient experience measurements using validated instruments (for specifics, see country sections in chapter 3).

Examples of survey topics include:

- General satisfaction with hospital
- Recommendation of hospital
- Satisfaction with medical care
- Satisfaction with service and organization

As a dimension of perceived quality, **patient experience reflects both the quality of care** (from the patient's perspective) **as well as the patient's satisfaction with the hospital stay**, including service factors such as friendliness of the staff or quality of food. Although there is some overlap between medical outcomes and hospital quality metrics, we consider this a separate quality dimension as has been established in scientific literature on patient-reported outcomes and patient-reported experiences in recent years.

An overview of the patient satisfaction data used in each country is provided in chapter 2. Data on patient experience from official sources was not available for Austria, Finland, Norway, Sweden, Thailand, Spain, Mexico, Australia, Canada, Singapore, India, Brazil, Japan, United Kingdom, Colombia, Saudi Arabia, the United Arab Emirates, Taiwan, Chile, and Malaysia. In these countries, Google reviews serve as a substitute but were considered with a lower weight in the scoring model (see chapter 1b). Based on the available data, a patient satisfaction score (0–100%) was calculated for every hospital in each country using the weighted sum of indicators available in the specific data set.

Hospital quality metrics: Hospital quality metrics from a variety of public sources were collected for most countries. These metrics differ greatly between countries. Some examples of indicators are:

- Data on quality of care for specific treatments, such as hip replacement or closure of inguinal hernia
- Data on hygiene measures and patient safety
- Data on staffing, e.g., number of patients per doctor/nurse

An overview of the hospital quality metrics used in each country is provided in chapter 2. The data sources were identified through an extensive research process in each country and through consultation with local experts. Some publicly available data sources were excluded for reasons mostly related to data quality and/or availability (e.g., certain

data was available only for a small number of hospitals in a given country or the number of missing values in regard to the hospital quality metrics was too high to perform a valid analysis). As a result of this process, hospital quality metrics were not available for Finland, India, The Netherlands, Spain, Mexico, Singapore, Thailand, Colombia, Saudi Arabia, the United Arab Emirates, Taiwan, Chile, and Malaysia. For each country with available data, a hospital quality metrics score (0–100%) was calculated based on the characteristics of the specific dataset.

Statista PROMs Implementation Survey: Patient-reported outcome measures (PROMs) are defined as standardized, validated questionnaires completed directly by patients to reflect their perception of their health status. Health status is defined beyond simply surviving disease following treatment, but covers symptom burden, impact on functioning (physical, mental, and social), and quality of life. In recent years, PROMs measurement and the pursuit for patient-centered and value-based care has become a key topic in healthcare systems worldwide.

With the guidance of the global board of medical experts, Newsweek and Statista have updated the *PROMs Implementation Survey* for the 2025 ranking cycle. The survey was sent out to hospitals in fall/winter 2024, and participation was also possible on newsweek.com and r.statista.com.

The overall **purpose of this survey is to determine the status quo of implementation of generic and condition-specific PROMs** in hospital settings, as well as the hospital's efforts towards reporting and using the data both internally and externally for the purpose of improving healthcare delivery. For this, the global board of medical experts provided methodological input and guidance regarding the importance and development of the PROMs topic in a clinical setting. Furthermore, the board provided feedback on each of the questions within the survey to capture the most relevant PROMs information from the hospitals.

Since 2024, Statista has partnered with the International **Consortium for Health Outcomes Measurement (ICHOM)** as a knowledge partner. ICHOM is the world's leading non-profit organization dedicated to transforming healthcare through the applied use of standardized patient-centered outcomes measurement. ICHOM convenes and empowers patients and clinical leaders to identify and standardize the most important clinical, quality of life, function, and experience results for healthcare, and enables transparent, large-scale use by various stakeholders to achieve patient-centric health system transformation. By working with partners around the world, ICHOM builds evidence-based, patient co-created resources—the standardized sets of patient-centered outcome

measures—that help all actors in healthcare design, deliver, and evaluate care based on outcomes that matter to patients. ICHOM sets cover a large variety of medical conditions and account for nearly 60% of the global burden of disease. They have been implemented in over 500 care settings across more than 42 countries. Drawing from their widely recognized expertise and experience in the field of clinical and patient-reported outcome measures, ICHOM is contributing to the future development of the *PROMs Implementation Survey* and to the wider advancement of value-based care worldwide.

More information about ICHOM is available at: www.ichom.org

An outline of the questions covered in the PROMs Implementation Survey can be found below, and the full questionnaire can be accessed via this [link](#).

PROMs Questions²:

- Status of PROMs implementation within the hospital. (Yes/No)
- Designated team to measure PROMs (Yes/No)
- Number of standardized PROM instruments measured and the departments for which they are being measured
- The condition and/or departments measuring PROMs, whether case-mix adjustment was taken into account, whether the instruments are scientifically validated, and the percentage of patients that complete the PROMs questionnaire for each condition
- Internal reporting of PROMs data to hospital staff (Yes/No)
- Internal reporting of PROMs data to patients (Yes/No)
- External reporting of PROMs results (Yes/No)
- Auditing of the data prior to being published (Internal/External/Both)
- Use of PROMs data to optimize care processes (Yes/No)
- Use of PROMs data to support therapeutic decisions in real-time (Yes/No)
- Use of PROMs data for shared decision making (Yes/No)
- Sharing and comparing of PROMs data with other institutions to learn from each other (Yes/No)

To determine the PROMs implementation score, the PROMs grading system is applied. For hospitals to qualify for this pillar within the scoring model (as shown in the scoring model in 2.4), they must achieve a minimum of 50% (of the maximum 100% score). To further highlight PROMs implementation efforts of participating hospitals and their level

² In the questions pertaining to external reporting, optimization of care processes, therapeutic decisions, shared decision making, and sharing and comparing of PROMs data, examples were either listed or asked of participants if participants selected yes.

of excellence in this category, a range of 1-3 ribbons is displayed. The criteria for the ribbons are determined by the amount of points accrued within the PROMs Implementation Survey in the following way:

- Checkmark: PROMs measurement that does not meet the 50% threshold
- 1 Ribbon: 50% - <70%
- 2 Ribbons: 70% - <87.5%
- 3 Ribbons: >=87.5%

Hospitals which have filled out the survey but do not measure PROMs do not receive a checkmark. For an overview of the grading scale, please refer to Appendix A.

The national recommendation score, the international recommendation score, the patient satisfaction score, the hospital quality metrics score (when available), and the PROMs implementation score were used to calculate a **hospital score**.

a. **The Global Board of Experts**

The following section outlines the function of the global board of medical experts founded by Statista to support the World's Best Hospitals project.

The idea behind the global board of medical experts is to create an independent body that is tasked with the continuous development of the quality and scope of the project. The global board of medical experts is therefore tasked with providing guidance and input for the development and future expansions of the methodology. This includes input regarding new data sources, future methodological considerations, and the ongoing development of the *PROMs Implementation Survey*. The members of the global board of medical experts were carefully chosen based on their national and international expertise, decades-long experience in their respective medical fields, as well as their scientific output. Current members of the global board of medical experts are:

A global board of renowned experts supports the continuous development of the methodology



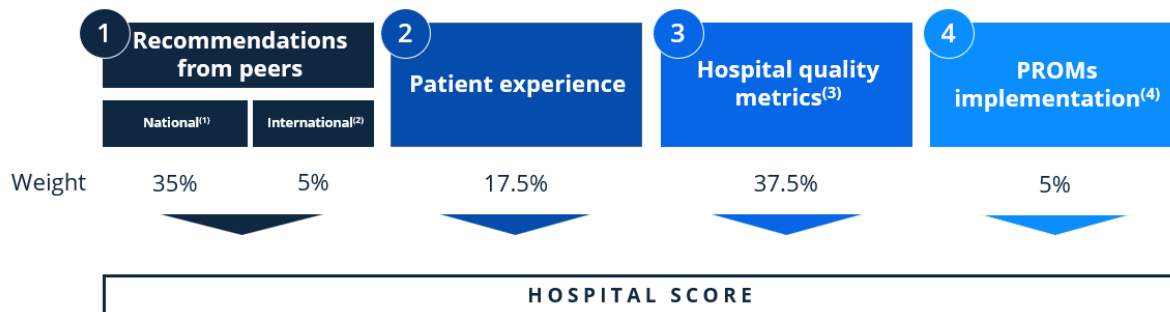
The global board of medical experts and the Statista team also gather for an annual conference where they discuss the status quo as well as new ideas and future improvements to the methodology in person.

b. Scoring Model

The scoring model is based on the national recommendation score, the international recommendation score, the patient satisfaction score, the hospital quality metrics score, and the PROMs implementation score, using different weights for the individual components, as shown in this overview:

A score was calculated for each hospital

Scoring model



The total hospital score is based on the four pillars and their respective weights listed above.

As shown above, recommendations from peers (doctors, hospital managers, and healthcare professionals) account for 40% (35% national recommendations from peers in the respective country, and 5% international recommendations from peers in other countries) of each hospital's score. They are assigned the highest weighting in the calculation of the score because medical experts are best suited to assess the quality of a hospital. If patient experience data was not available for a certain country, Google star ratings were used to approximate patient satisfaction. Because these are less reliable as a data source, the weight of patient experience in the scoring model was reduced to 7.5%³.

For countries where hospital quality metrics were not available, the weights were re-proportioned accordingly⁴ (e.g., the weight of national recommendations from peers increases from $\frac{49}{100}$ to $\frac{49}{71}$ (69%)).

The *PROMs Implementation Survey* score accounts for 5% of the overall hospital score. As PROMs survey participation is optional, for hospitals that did not submit a survey, the three other pillars were used with adjusted weights in the scoring model.

The hospital score is the weighted average of the available scores for each hospital. Based on this score and the chosen cut-off for list length in the given country, hospitals are ranked from top to bottom in each country. The results of this ranking are displayed in the country lists published by Newsweek:

Result tables of the best hospitals in each country

 **World's Best Hospitals - United States**

Rank	Hospital	Score	City
1	Mayo Clinic - Rochester	97.54	Rochester
2	Cleveland Clinic	90.36	Cleveland
3	The Johns Hopkins Hospital	89.93	Baltimore
4	Massachusetts General Hospital	89.90	Boston
5	Ronald Reagan UCLA Medical Center	89.59	Los Angeles

[...]

 **World's Best Hospitals - Germany**

Rank	Hospital	Score	City
1	Charité - Universitätsmedizin Berlin	92.59	Berlin
2	Universitätsklinikum Heidelberg	90.01	Heidelberg
3	LMU Klinikum	88.08	Munich
4	Universitätsklinikum Hamburg-Eppendorf	87.27	Hamburg
5	Medizinische Hochschule Hannover	86.04	Hannover

[...]

³ Patient experience data was not available for: Austria, Finland, Norway, Sweden, Thailand, Spain, Mexico, Australia, Canada, Singapore, India, Brazil, Japan, United Kingdom, Colombia, Saudi Arabia, the United Arab Emirates, Taiwan, Chile and Malaysia.

⁴ There was no redistribution for the 7.5% of the Google Star rating

c. Specialty Hospitals

The study is aimed at rating the reputation and performance of general hospitals. Due to the open design of the study, participants could not be restrained from recommending specialty hospitals. However, these hospitals were not ranked by their performance in the respective medical fields due to the survey structure used; for example, there was no ranking among hospitals that specialize in treating cancer because the survey questions did not specifically ask for recommendations regarding cancer patients.

The same data sources were used for hospital quality metrics and patient satisfaction scores of specialized hospitals as for general hospitals, but the score calculated using the approach described in b was removed from the national rankings, resulting in these specialized hospitals not being a part of the main country list. The underlying reason is that specialized hospitals, such as heart or cancer hospitals, differ greatly in their services from general hospitals and should therefore not be compared in their performance to these hospitals. On the other hand, since some specialized hospitals did receive a number of peer recommendations and performed well enough in regard to hospital quality metrics and patient satisfaction scores to enter the national rankings in their respective countries (despite usually being smaller and much more specialized than their general counterparts), the authors of this study decided not to omit specialized hospitals completely; instead, these are displayed at the end of each country list. This portion of the country lists is sorted alphabetically because, as outlined above, specialties are very heterogeneous, not only in the treatment/procedures required, but also in the patient population, e.g., when comparing patients from heart clinics to patients from psychiatric clinics. No conclusion should be drawn from the order of the specialized hospitals within the lists. Since only a relatively low number of hospitals per country is represented, the fact that these specialized hospitals were recommended by peers frequently enough to make their respective country lists is a huge distinction compared to other specialized hospitals in the same medical field in their respective country that did not make the list.

d. Global Top 250 List

In addition to the country lists, a global list was created to identify the Top 250 best hospitals worldwide.

The **Global Top 250 list** is determined by six metrics:

- International recommendations
- National rank
- Quality metrics excellence

- Patient satisfaction excellence
- PROMs implementation excellence
- Bibliometric scores **[new]**

The first component is that of the international recommendations received by hospitals in the survey. As this pillar is irrespective of the nationality of participants, it is a metric that can be compared across countries. The second component incorporates the national rank of hospitals within their own country list. The logic behind the international scoring model is that hospitals ranked high in their national rankings should not be ranked lower than their national peers in the international ranking (to ensure internal validity); for example, #1 in country A was ranked above #2 in country A on the global list.

The third and fourth pillars refer to the excellence levels of hospitals within their own country lists. Hospitals whose performance within the quality metrics and/or patient satisfaction pillars was in the top 20% for the respective country were eligible for the quality metrics excellence/patient satisfaction excellence pillars.

The fifth pillar incorporated is of PROMs implementation. As with the country rankings, hospitals that meet the grading threshold were eligible for the PROMs implementation excellence pillar within the international list, to equally reflect the importance of PROMs and value-based healthcare within our rankings.

The final pillar is the bibliometric score. This pillar was incorporated as a proxy for reputation based on metrics tied more closely to research output rather than expert opinion. Thus, weight was decreased from the national rank within the scoring model of the international list. For this pillar, data was sourced from Exaly.com. Exaly is a nonprofit project that compiles a database containing scientometric indices, such as impact factor, h-index, g-index, number of publications, etc., at several levels, including authors, schools, and institutions. For the bibliometric score, data on the h-index, number of citations, and number of publications at the institution level were analyzed for the top 250 hospitals.

The global list does not include specialized hospitals for the same reasons they were separated from the national rankings. Hospitals that were distinguished in this Global Top 250 List are the very best hospitals in each country and, therefore, across the world. Out of 2,445 hospitals included in the 2025 World's Best Hospitals Ranking, this elite group represents the top 10% of all hospitals, making this the most prestigious ranking available to date.

2 Country-Specific Methodology

The following section expands on the general methodology outlined in chapter 2 by describing country-specific lists and data sources for each country.

a. United States of America

There are currently around 6,120 hospitals in the USA, according to the American Hospital Association (American Hospital Association, 2024). The majority of hospitals (around 84%) are classified as community hospitals, which are defined as all nonfederal, short-term general hospitals, as well as other specialized hospitals. Hospitals that are not accessible to the general public, such as prison hospitals or college infirmaries, are excluded. The number of total staffed beds in all community hospitals in the US is currently 784,112 (American Hospital Association, 2024).

Community hospitals differ in terms of ownership type, with around 2,987 being non-government not-for-profit community hospitals, 1,219 being for-profit community hospitals, and the remaining 923 being state and local government community hospitals. There is also a smaller number of other hospitals, such as federal government hospitals (around 207) and nonfederal psychiatric hospitals (around 659). Texas and California have the highest number of community hospitals, with 509 and 355 respectively, while Delaware and the District of Columbia have the fewest, with 8 and 10, respectively.

The hospital quality metrics used for the USA ranking are part of the Medicare “Hospital Compare” dataset published by the Centers for Medicare & Medicaid Services (CMS). This comprehensive dataset revolves around an “Overall Hospital Quality Star Rating”, developed by the Yale New Haven Health Services Corporation – Center for Outcomes Research and Evaluation (CORE) and is available for over 4,600 hospitals publicly reporting quality information on the Hospital Compare platform. Each hospital is assigned one to five stars based on its overall performance across a number of quality measures regarding common conditions that hospitals treat. Hospitals are assigned a Star Rating only upon meeting certain data availability thresholds (outlined further below).

Some more complex or specialty procedures are not reflected in the summary rating. The aim is to generate a comprehensive representation of overall quality that can be interpreted by patients and consumers, but also to identify performance categories within the large number of hospitals in the US.

The following section describes the methodology used by CMS to generate the Star Rating, which is crucial to understand as a basis for the hospital quality metrics score used

in the World's Best Hospitals ranking for the USA. The latest Star Rating available at the time of the ranking process (July 2024) was used for the scoring model.

To define the aforementioned Star Rating, measures that are relevant in the context of assessing overall hospital quality were identified through stakeholder and expert feedback. Measures that are only reported by a small number of hospitals or that were not necessarily indicative of higher quality were excluded, reducing the total number of included measures to 46 in the currently reported Star Rating. In 2021, CMS implemented a new methodology as a result of stakeholder and expert feedback. In the current methodology, the selected measures were standardized into five group performance categories which make up the overall rating:

- Mortality (7)
- Safety of Care (8)
- Readmission (11)
- Patient Experience (8)
- Timely and Effective Care (13)

The hospital quality metrics score for US hospitals in the World's Best Hospitals 2025 ranking was calculated using the latest Star Rating available at the time of the ranking process, which is the October 2024 edition⁵. The data samples for the group performance rankings were collected from:

⁵ Note that the asterisk in the tables of measures indicates measure reporting periods which would have normally included 1Q and 2Q 2020.

Mortality		Data collection	
		From	Through
1.	Death rate for heart attack patients	7/1/2019	6/30/2022*
2.	Death rate for coronary artery bypass graft (CABG) surgery patients	7/1/2019	6/30/2022*
3.	Death rate for chronic obstructive pulmonary disease (COPD) patients	7/1/2019	6/30/2022*
4.	Death rate for heart failure patients	7/1/2019	6/30/2022*
5.	Death rate for pneumonia patients	7/1/2019	6/30/2022*
6.	Death rate for stroke patients	7/1/2019	6/30/2022*
7.	Deaths among patients with serious treatable complications after surgery	7/1/2020	6/30/2022*

Safety of Care		Data collection	
		From	Through
1.	Central line-associated bloodstream infections (CLABSI)	4/1/2022	3/31/2023
2.	Catheter-associated urinary tract infections (CAUTI)	4/1/2022	3/31/2023
3.	Surgical site infections from colon surgery (SSI: Colon)	4/1/2022	3/31/2023
4.	Surgical site infections from abdominal hysterectomy (SSI: Hysterectomy)	4/1/2022	3/31/2023
5.	Methicillin-resistant <i>Staphylococcus Aureus</i> (MRSA) Blood Laboratory-identified Events (Bloodstream infections)	4/1/2022	3/31/2023
6.	<i>Clostridium difficile</i> (<i>C. diff.</i>) Laboratory-identified Events (Intestinal infections)	4/1/2022	3/31/2023
7.	Rate of complications for hip/knee replacement patients	4/1/2019	3/31/2022*
8.	Serious complications	7/1/2020	6/30/2022

Readmission		Data collection	
		From	Through
1.	Hospital return days for heart attack patients	7/1/2019	6/30/2022*
2.	Rate of readmission for coronary artery bypass graft (CABG) surgery patients	7/1/2019	6/30/2022*

Readmission		Data collection	
		From	Through
3.	Rate of readmission for chronic obstructive pulmonary disease (COPD) patients	7/1/2019	6/30/2022*
4.	Hospital return days for heart failure patients	7/1/2019	6/30/2022*
5.	Rate of readmission after hip/knee surgery	7/1/2019	6/30/2022*
6.	Hospital return days for pneumonia patients	7/1/2019	6/30/2022*
7.	Rate of readmission after discharge from hospital (hospital-wide)	7/1/2021	6/30/2022
8.	Rate of unplanned hospital visits after an outpatient colonoscopy	1/1/2020	12/31/2022*
9.	Rate of unplanned hospital visits for patients receiving outpatient chemotherapy	1/1/2022	12/31/2022
10.	Rate of emergency department (ED) visits for patients receiving outpatient chemotherapy	1/1/2022	12/31/2022
11.	Ratio of unplanned hospital visits after hospital outpatient surgery	1/1/2022	12/31/2022

Patient Experience		Data collection	
		From	Through
1.	Patients who reported that their nurses communicated well	4/1/2022	3/31/2023
2.	Patients who reported that their doctors communicated well	4/1/2022	3/31/2023
3.	Patients who reported that they received help as soon as they wanted	4/1/2022	3/31/2023
4.	Patients who reported that staff explained about medicines before giving it to them	4/1/2022	3/31/2023
5.	Patients who reported that their room and bathroom were clean/Patients who reported that the area around their room was quiet at night	4/1/2022	3/31/2023
6.	Patients who reported that they were given information about what to do during their recovery at home	4/1/2022	3/31/2023

Patient Experience		Data collection	
		From	Through
7.	Patients who understood their care when they left the hospital	4/1/2022	3/31/2023
8.	Patients who gave their hospital a rating on a scale from 0 (lowest) to 10 (highest)/Patients who would recommend the hospital to their friends and family	4/1/2022	3/31/2023

Timely and Effective Care		Data collection	
		From	Through
1.	Percentage of healthcare workers given influenza vaccination	10/1/2022	3/31/2023
2.	COVID-19 vaccination coverage among healthcare providers	1/1/2023	3/31/2023
3.	Percentage of patients who left the emergency department before being seen	1/1/2022	12/31/2022
4.	Percentage of patients who came to the emergency department with stroke symptoms who received brain scan results within 45 minutes of arrival	4/1/2022	3/31/2023
5.	Percentage of patients receiving appropriate recommendation for follow-up screening colonoscopy	1/1/2022	12/31/2022
6.	Percentage of mothers whose deliveries were scheduled too early (1-2 weeks early), when a scheduled delivery was not medically necessary	4/1/2022	3/31/2023
7.	Percentage of patients who received appropriate care for severe sepsis and septic shock.	4/1/2022	3/31/2023
8.	Percentage of outpatients with chest pain or possible heart attack who got drugs to break up blood clots within 30 minutes of arrival	4/1/2022	3/31/2023
9.	Average (median) number of minutes before outpatients with chest pain or possible heart attack who needed specialized care were transferred to another hospital	4/1/2022	3/31/2023
10.	Average (median) time patients spent in the emergency department before leaving from the visit	4/1/2022	3/31/2023

11.	Percentage of outpatients with low-back pain who had an MRI without trying recommended treatments first, such as physical therapy	7/1/2021	6/30/2022
12.	Percentage of outpatient CT scans of the abdomen that were "combination" (double) scans	7/1/2021	6/30/2022
13.	Percentage of outpatients who got cardiac imaging stress tests before low-risk outpatient surgery	7/1/2021	6/30/2022

Hospitals may not be able to report data on all measures due to low patient volume. The new 2021 methodology implemented by CMS uses a simple average of measure scores and Z-score standardization to standardize the measure scores for the previously mentioned five measure groups.

Once the group score is estimated for each hospital and each group, the weighted average is calculated to combine the five group scores into a single hospital summary score. The weights are proportionally redistributed in case a hospital is missing a measure category or group.

After calculating the summary scores, hospitals are assigned to one of three peer groups based on the number of measures for which they report at least three measures: three measure groups, four measure groups, or five measure groups. Finally, hospitals are assigned to Star Ratings within each peer group using k-means clustering. This way, the summary scores in a particular Star Rating category are more similar to each other and more different from those in another Star Rating category.

Group importance: Outcome groups (Mortality, Safety, Readmission) should be weighted higher than process groups (Timely and Effective Care).

- Consistency with existing CMS policies and priorities: Weights should be consistent with existing weighting schemes of other CMS programs and the CMS Quality Strategy.
- Stakeholder input: Weighting should consider the priorities of medical professionals and patients.

The weighting scheme was also vetted by other stakeholders, such as the Patient & Patient Advocate Work Group, through a public input period during which feedback was collected. The final weights used were:

Category	Weight
Mortality	22%

Safety of Care	22%
Readmission	22%
Patient Experience	22%
Timely and Effective Care	12%

Based on this weighting scheme, the formula for the calculation of the hospital summary score is:

$$\text{Hospital Summary Score}_h = \frac{\sum_{d=1}^5 W_d a_{hd}}{\sum_{d=1}^5 W_d}$$

In a penultimate step, **minimum thresholds** were applied to ensure hospitals with low numbers of certain patient types that were not able to report data on all measures get excluded from public reporting if the total number of reported measures or groups is below the threshold. In the current methodology, the minimum number of measures per group is set at three and the minimum group threshold for a Star Rating is three groups. Furthermore, CMS now requires that one of the measure groups reported must be the Mortality or Safety of Care outcome group.

Lastly, the summary scores were clustered into five categories to assign the final Star Ratings. In this classification, a 3-star rating is considered average. The classification into Star Ratings does not conclude that hospitals with the same Star Rating have identical quality; rather, the rating reflects the weighted average of the summarized, group-level quality information for a hospital. Due to this approach, by definition, some hospitals will be close to the boundaries of the next higher/lower star category. Therefore, to get a clearer understanding of the quality of each hospital, the different set of measures contributing to its star ranking is considered.

The distribution of the Star Ratings based on July 2024 results is the following:

Star Rating	Number of Hospitals
5 Stars	381 (8.2%)
4 Stars	766 (16.4%)
3 Stars	828 (17.8%)
2 Stars	595 (12.8%)
1 Star	277 (5.9%)

CMS Star Rating Score

Because the Star Ratings are highly aggregated, the World's Best Hospitals 2025 rankings for the USA do not merely take the Overall Star Rating into account to calculate the hospital quality metrics score. Instead, scores for each measure group were calculated using the following approach.

For the measure groups of Mortality, Safety of Care, and Readmissions, the percentage of measures which are better than, no different to, and worse than the national average were calculated. A maximum of 1 point was allotted to individual measures that were better than the national average, 0.85 points to measures same as the national average, and 0.5 points to measures worse than the national average. The sum of points was then divided by the total number of measures the hospital reported. The score for each of the three groups of metrics was then compared to national percentiles (e.g., for the Mortality group, facilities with a combined score which fell in the top 90th percentile nationwide, received one point). For the groups of Timely and Effective Care as well as Patient Satisfaction, percentiles were calculated on a national level for each metric within the measure groups. In the next step, the scores of each metric were compared to the national percentiles and points were assigned according to where they fall in the percentiles.

Finally, the points of all measures within a measure group were averaged to build a single measure group score for each facility. The CMS group weighting was then applied to calculate the final CMS Star Rating score. This ensures that the approach is comparable with CMS but allows for a more differentiated hospital quality metrics score instead of merely using an overall Star Rating.

The CMS Star rating score was worth 72.5% of the quality metrics score.

Eligibility Criteria

Once again, eligibility criteria were implemented for hospitals to receive a CMS Star Rating score. The following criteria were required:

1. Similar to CMS, hospitals had to report measures in at least three categories.
2. One of those reported categories had to be Mortality or Safety.

Furthermore, hospitals which have received a 1-Star CMS rating were excluded from the ranking entirely. As a result, within our ranking, approximately 70% of the hospitals awarded received a 4- and 5-star rating by CMS.

The full methodology report for the Hospital Compare Quality Star Rating can be found at:

<https://qualitynet.cms.gov/inpatient/public-reporting/overall-ratings/resources>

Patient-Centric CMS metrics [new]

For the first time in the World's Best Hospitals USA ranking, CMS data on Health Equity and Patient Reported Outcomes were factored into the analysis. Hospitals that have submitted PRO data to CMS and that participate in the health equity program received a score within each of these sub-pillars. The CMS patient-centric metrics were worth 5% of the quality metrics score.

American Hospital Association Data [new]

The AHA Annual Survey of Hospitals Database has been included in the scoring model. The database contains data provided by more than 6,200 hospitals and 400 health care systems and features over 1,300 hospital data points.

Structural and organizational data of hospital facilities was included in the hospital quality metrics score. The following indicator groups of the AHA Annual Survey of Hospitals Database 2022, were used as part of the quality metrics score:

General indicators

- Clinical services and care
- Health research and screening
- Workforce strategic planning

Health equity

- Health equity goals
- DEI disaggregated data
- Health equity strategic plan

Technologies and Innovation

- Diagnostic technology

- Telehealth and virtual care
- AI and automation

For each available indicator a hospital received one point as part of the hospital. The metrics accounted for 17.5% of the total quality metric score. The specific indicators considered can be found in Appendix B.

Information on the AHA database, can be found here:

<https://www.ahadata.com/aha-annual-survey-database>

Accreditations

Additionally, we incorporated within the scoring model the **Joint Commission** accreditation and (for the first time) the **ANCC Magnet and Planetree accreditations**. The Accreditations contributed 5% to the total quality metrics score.

The list of Joint Commission accredited institutions can be found here:

<https://www.qualitycheck.org/>

The list of ANCC Magnet accredited institutions can be found here:

<https://www.nursingworld.org/organizational-programs/magnet/find-a-magnet-organization/>

The list for Planetree accredited institutions can be found here:

<https://www.planetree.org/partners/locations/united-states#topAccreditations were>

Patient Satisfaction

In the US, the patient satisfaction score is based on Medicare HCAHPS data. The Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) survey is a standardized survey of hospital patients in the USA regarding their experiences during a recent inpatient hospital stay (HCAHPS, 2024). While many hospitals in the US already collected information on patient satisfaction, prior to HCAHPS, there was no national standard for collecting or publicly reporting patients' perspectives of care information that would enable valid comparisons to be made across all hospitals. The most recent dataset available is the October 2024 edition and is based on surveys from patients discharged in 2023. Based on the collected survey data, the CMS reports 11 HCAHPS Star Ratings on

Hospital Compare: 10 for the publicly reported HCAHPS measures, as well as an HCAHPS Summary Star Rating. The specific measures are derived from certain items in the HCAHPS survey as shown below:

HCAHPS Composite Measures		Questions
1.	Communication with Nurses	1, 2, 3
2.	Communication with Doctors	5, 6, 7
3.	Responsiveness of Hospital Staff	4, 11
4.	Communication about Medicines	13, 14
5.	Discharge Information	16, 17
6.	Care Transition	20, 21, 22
HCAHPS Individual Items		Questions
7.	Cleanliness of Hospital Environment	8
8.	Quietness of Hospital Environment	9
HCAHPS Global Items		Questions
9.	Hospital Rating	18
10.	Recommend the Hospital	19

Hospitals had to have at least 100 completed HCAHPS surveys over a given four-quarter period to receive a Star Rating.

The HCAHPS Summary Star Rating is the average of the Star Ratings. It is constructed from the Star Ratings from the six HCAHPS Composite Measures, a single Star Rating for the two HCAHPS Individual Items listed above, and a single Star Rating for the two HCAHPS Global Items (also listed above). The Star Ratings for the HCAHPS Individual Items and HCAHPS Global Items are constructed by calculating the average of the Star Rating for the two individual items contained in these composite measures. The resulting eight Star Ratings are combined into a simple average and rounded using normal rounding rules:

HCAHPS Summary Star Rating	Rounded Star Rating
-----------------------------------	----------------------------

≥1.00 and <1.50	1 Star
≥1.50 and <2.50	2 Stars
≥2.50 and <3.50	3 Stars
≥3.50 and <4.50	4 Stars
≥4.50 and ≤5.00	5 Stars

To avoid the loss of information on the individual measures, the World's Best Hospitals patient satisfaction score for US hospitals is based on the more precise individual measures described above rather than the simple Summary Star Rating. This approach also allows for a more precise differentiation of hospitals that are at the upper or lower boundaries of their respective Summary Star Rating category.

The full methodology for the HCAHPS Star Rating is published at:

<https://hcahpsonline.org/en/hcahps-star-ratings/>

Patient Experience Award

For the second time, hospitals with an **outstanding performance** in patient experience are recognized with a **patient experience award**, highlighting their dedication to delivering high-quality, patient-centered care. To qualify for the award, hospitals must demonstrate exceptional performance across all evaluated metrics:

- Only hospitals that reported all 10 HCAHPS measures and are within the top 40% per measure were eligible, ensuring a solid baseline of care quality.
- At least 3 of the 10 measures must be rated in the top 15%, highlighting areas of outstanding achievement.
- Additionally, 4 or more measures must be ranked in the top 10%, reaching the 90th percentile or higher, underscoring the hospital's commitment to excellence in critical performance areas.

Infection Prevention

Hospitals in the US are required to report data about certain infections to the Centers for Disease Control and Prevention (CDC). This data includes the following measures:

- Catheter-associated urinary tract infections
- Central line-associated bloodstream infection

- *Clostridium difficile* laboratory-identified events
- MRSA bacteremia laboratory-identified events
- Surgical site infection - abdominal hysterectomy
- Surgical site infection - colon surgery

For each measure and hospital, a Standardized Infection Ratio is calculated by the CDC and compared to the national average, resulting in a value that is either “above national average”, “same as national average”, or “below national average.”

To identify which of the US hospitals featured in the national ranking were performing “above national average,” measurement data from 1/1/2023 to 12/31/2023 (most recent data publicly available from CMS by October 2024) was used. A hospital needs to meet the following criteria to be awarded the Best Infection Prevention award (US only):

- At least four of the six measures need to be available for the mentioned time period of 2023.
- None of the available measures equals the value “below national average.”
- At least one available measure equals the value “above national average.”

All used data was accessed from and is available at:

<https://data.cms.gov/provider-data/dataset/77hc-ibv8>

b. Germany

Germany currently has 1,874 hospitals (Statistisches Bundesamt, 2023) which can be classified into four groups defined by the type and level of care provided. This classification is based on existing health policy regulations:

- Basic and standard care hospitals
- General care hospitals
- Maximum/tertiary care hospitals
- Specialized hospitals

Basic and standard care hospitals are usually the smallest types of hospitals, providing only general services or basic surgeries. They usually do not have specialty wards. Because of these limitations, they are mostly not represented in the World’s Best Hospitals ranking for Germany.

General care hospitals usually have several specialty wards and even provide maternity care. They usually do not have highly specialized specialty wards, instead referring their patients to specialized hospitals or maximum care hospitals if needed.

Maximum care hospitals usually treat the most complex and resource-intensive cases. They are therefore most often equipped with expensive and cutting-edge technical and diagnostic equipment as well as specialized physicians. Many maximum care hospitals are university hospitals.

Specialized hospitals, while often providing a range of general services, are focused on certain specialties (e.g., cardiology) or complex diagnoses (e.g. cancer). They are represented in the national ranking for Germany relatively often (compared to other countries) because the German hospital landscape is still relatively heavy on specialized hospitals known for their expertise in certain medical fields. Their number has been slowly decreasing over the last several years, with a tendency towards centralization into larger and more diversified medical centers.

Hospitals in Germany can be differentiated further by ownership type, with 28% of hospitals being under public, 32% under private non-profit, and 40% under private for-profit ownership (Statistisches Bundesamt, 2023). The average size of a hospital in Germany is 254 inpatient beds, with public hospitals on average being by far the largest and private hospitals being the smallest on average.

The 2025 edition of the World's Best Hospitals list for Germany ranks the top 220 hospitals, which is the second longest list due to the large number of recommendations and the good quality of available hospital quality metrics and patient experience data (see below).

German hospitals are required to publish freely available annual **quality reports** online since 2005 (originally published biannually from 2005–2012); therefore, data on wide-ranging hospital quality metrics for German hospitals is readily available. The quality reports provide in-depth information about the structure and services of each hospital, such as the range of diagnoses and number of provided treatments, number of staff, hygiene measures, number of complications, or barrier-free accessibility. The reports not only feature descriptive information but also quality indicators that give an indication of the quality of the care provided in each hospital. The quality reports of 2022 are the most recent ones available. Further information about hospital quality reports in Germany is available at:

The data used is available at:

<https://www.g-ba.de/institution/themenschwerpunkte/qualitaetssicherung/qualitaetsdaten/qualitaetsbericht/>

The data is published at:

<https://www.barmer-kliniksuche.de/>

The following hospital quality metrics from the quality reports were used for the World's Best Hospitals ranking in Germany because they are most comparable across hospitals and representative of a hospital's general performance:

- Medical Staffing: Number of cases per doctor
- Nurse Staffing: Number of cases per nurse
- Patient Safety & Hygiene: Number of measures to increase patient safety (e.g., standardized pre-surgery checklists) and number of measures to increase hygiene (e.g., hospital infection surveillance system)

Additionally, quality of care data from **Qualitätssicherung mit Routinedaten (QSR)** and **Institut für Qualitätssicherung und Transparenz im Gesundheitswesen (IQTiG)** were used for the ranking. QSR is based on claims data from the large German health insurer AOK and includes a substantial number of indicators for a range of surgeries which are analyzed in regard to quality of care. The 11 publicly reported measures considered in the scoring model are:

- Hip replacement (osteoarthritis)
- Surgery for a femoral fracture near the hip joint
- Knee replacement (osteoarthritis)
- Gallbladder removal for gallstones
- Appendectomy
- Therapeutic cardiac catheter (PCI) in patients without a heart attack
- Surgery for benign prostate enlargement
- Complete prostate removal for prostate cancer
- Closure of inguinal hernia
- Hip replacement (not for fracture or infection)
- Knee replacement (not for fracture or infection)

German hospitals are required to document quality-relevant data on their patients. IQTiG evaluates these data comparatively. The quality indicators documented by a hospital are rated by IQTiG as "Unobtrusive," "Conspicuous," and "Other." These results were taken into account in the scoring model.

The data used for the 2025 ranking was published by the AOK in October 2024 and includes surgeries performed in 2020 to 2022 (with follow up treatment including up until 2022). Additional information about QSR and IQTiG are available at:

<http://www.qualitaetssicherung-mit-routinedaten.de/>

<https://iqtig.org/>

Additionally, the quality results from **Initiative Qualitätsmedizin** (IQM) were used for the ranking. About 500 hospitals from Germany and Switzerland are involved in the IQM to improve the quality of medicine. The six publicly reported measures considered in the scoring model are:

- Deaths with primary diagnosis of myocardial infarction
- Deaths with primary diagnosis of heart failure
- Deaths from all forms of stroke
- Cerebral infarction deaths
- Deaths with primary diagnosis of pneumonia
- COPD deaths

Hospitals participating in the IQM received an additional score as part of their hospital quality metrics score.

The quality results of 2024 are the most recent ones available. Further information about hospital quality results in Germany and Switzerland is available at:

<https://www.initiative-qualitaetsmedizin.de/qualitaetsmethodik>

Additionally, the **Emergency Care Levels** provided by the **GKV Spitzenverband** were considered, for which the list of hospitals can be found here:

<https://www.gkv-spitzenverband.de/startseite/startseite.jsp>

The data is published at:

<https://www.barmer-kliniksuche.de/>

Patient Satisfaction

The AOK and other participating health insurance companies have been performing a patient satisfaction survey since 2011. The survey is based on the Patients' Experience Questionnaire (PEQ), which has been validated scientifically. So far, around 900,000 evaluations have been received nationwide. The survey includes about 15 questions, covering the following areas:

- Recommendation of hospital
- Satisfaction with medical care
- Satisfaction with nursing care
- Satisfaction with service and organization

Results are calculated for each department and aggregated to a total score per hospital. Results are reported for hospitals that have at least 75 completed surveys (or at least 50 for a single department). The detailed description of the survey can be found at the AOK website:

<https://www.aok.de/pk/gesundheitsnavigator/glossar/#services-with-P>

c. Japan

There are currently 8,064 hospitals in Japan, of which 7,007 are general hospitals. Regarding the 47 prefectures in Japan, Tokyo prefecture has the highest number of hospitals with 635 hospitals, and Tottori prefecture has the lowest number of hospitals with 43 hospitals (Ministry of Health, Labour and Welfare (MHLW), 2024). The number of hospital beds in relation to the population is one of the highest worldwide (The World Bank, 2024), with 11,91 hospital beds per 1,000 inhabitants (MHLW, 2023).

The hospital quality metrics for Japanese hospitals from the Diagnosis Procedure Combination (DPC) are published by the Ministry of Health, Labour and Welfare in Japan. Diagnosis Procedure Combination (DPC) is a Japanese evaluation system for healthcare costs, length of hospital stays, and healthcare needs. DPC hospitals are hospitals that meet the defined criteria. For this project, the hospital quality metrics score was calculated with the Function Evaluation Coefficient II data. The following data from April 2024 was used, which was the most current data at the time of the ranking process:

- Coefficient of efficiency
- Coefficient of complexity
- Coefficient of coverage

- Coefficient of emergency

The **coefficient of efficiency** keeps track of patients' length of stay. The average length of stay in a hospital is compared with the average length of stay in all DPC hospitals. The **coefficient of complexity** measures how many patients with a complicated diagnosis are treated by the hospital. The variety of categories that the hospital can diagnose and treat compared to all DPC hospitals is captured by the weighting factor of coverage. The **coefficient of emergency** measures the capacity of the hospitals taking emergency patients. Emergency is defined as the first two days of a patient's stay.

All used data was accessed from and is available at:

<https://www.mhlw.go.jp/index.html>

Additionally, **Joint Commission** accreditations and ANCC **Magnet Organization** certifications were considered, for which the list of accredited/certified institutions can be found here:

<https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>

<https://www.nursingworld.org/organizational-programs/magnet/find-a-magnet-organization/>

Hospitals that were on this list had the category as a part of their hospital quality metrics score.

d. South Korea

The healthcare system in South Korea has two components, health insurance and medical aid. The national health insurance system provides coverage to all citizens, and it is managed comprehensively in the form of social insurance (Health Insurance Review & Assessment Service, 2023). According to the Korean Statistical Information Service, in 2023, the country had 327 large general hospitals and 1,447 long-term care hospitals. According to the Ministry of Health and Welfare (2023), there are 109 specialized hospitals. Seoul is the region with the most hospitals in South Korea, and Jeju is the region with the fewest. The number of hospital beds in relation to the population is one of the highest worldwide, with 14.1 beds per 1,000 inhabitants (Korean Statistical Information Service, 2023).

The hospital quality metrics used for ranking South Korean hospitals are published by the national Health Insurance Review & Assessment Service (HIRA). Besides other

activities, HIRA monitors the healthcare system through on-site investigations of hospitals, quality assessments, medical claim reviews, etc. HIRA provides an open-data platform with assessments of different quality indicators. For this project, the following indicators from hospital investigations were used:

- ICU evaluation
- Acute disease evaluation
- Chronic disease evaluation
- Cancer disease evaluation
- Drug evaluation

HIRA publishes ratings for each category, based on the results of their evaluation. The ratings for each indicator are presented on a 5-point scale.

All used data was accessed from and is available at:

<https://www.data.go.kr/tcs/dss/selectApiDataDetailView.do?publicDataPk=15094093>

Additionally, two accreditations were considered as a part of the hospital quality metrics score. More information and the lists of accredited organizations can be found under the following links:

- **Korea Institute for Healthcare Accreditation**
<https://www.koiha.or.kr/web/en/staus/accStatus.do>
- **Joint Commission International**
<https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>

Patient Satisfaction

The HIRA conducts patient experience evaluations to spread a patient-centered medical culture and to improve the quality of care experienced by the public. The target institutions are high-level general hospitals and general hospitals with more than 300 beds. For this ranking, survey data from 2023 was used. The patients were asked to rate the hospitals for the following criteria:

- Nurse services
- Physician services

- Dosing and treatment process
- Hospital environment
- Guarantee of patient rights
- Overall evaluation

The evaluation results are released as a 100-point score for each of the six areas.

All used data was accessed from and is available at:

<https://www.hira.or.kr/ra/eval/getDiagEvlView.do?pgmid=HIRAA030004000100&WT.gnb=%EB%B3%91%EC%9B%90%ED%8F%89%EA%B0%80>

e. **France**

According to the OECD, France currently has 2,987 hospitals (OECD, 2024). Public institutions account for about 65 percent of hospital capacity and activity. Private for-profit facilities account for another 25 percent, and private non-profit facilities make up the remainder (The Commonwealth Fund, 2024). To calculate the hospital quality metrics score for French hospitals, publicly available data from the Haute Autorité de Santé (HAS) was analyzed. HAS is an independent public authority that contributes to the regulation of the French health system and assures quality standards in healthcare measurements. It publishes data regarding the quality and safety of French hospitals, following a consistent methodology to guarantee validated and comparable data measures. HAS also measures patient satisfaction and experience, resulting in a comprehensive dataset allowing for a detailed comparison of different hospitals.

The certification of hospitals is carried out every four years. The reference frame from 2014 was replaced in favor of a new system published in 2021. Since the assessment rhythm of a hospital is every four years, the results of the hospital quality metrics and patient satisfaction include hospitals that were certified under the old system and hospitals that are already certified under the new system.

For the World's Best Hospitals ranking, nine different hospital quality metrics were used. If available, the following metrics were used to calculate an overall score (reference frame 2014):

- Patient rights
- Patient journey

- Medication management
- Quality and risk management
- Infection risk
- Patient records
- Management of emergencies
- Organization of the operating rooms
- Safety of endoscopy patients

The measures above were chosen due to their availability for most hospitals as well as for their relevance as a measure of the general quality of a hospital. HAS used a four-point grading scale system, where A is the best achievable grade and D is the worst. **Patient rights** assesses whether a hospital is treating the patients according to their rights, respecting their privacy and ensuring the confidentiality of their data. **Patient journey** refers to the organization of a patient's entire journey during their stay. The received rating is an indicator of the continuity and coordination of care, the cooperation between different teams, as well as the accessibility of information by all healthcare professionals. **Medication management** shows if a hospital ensures patient security at all stages of medical treatment, including adequate information regarding the treatment. **Quality and risk management** assesses whether a hospital has a well-defined policy for improving the quality and safety of care. **Infection risk** is an indicator for measures that are taken by a hospital to avoid infections during hospitalizations. Hospitals also get a higher score if their employed personnel are correctly trained in hygiene regulations. The correct use of antibiotics also contributes to the control of the infection risk. **Patient records** measures the traceability of information in the patient's file, which is important to guarantee coordinated and continuous care. **Management of emergencies** assesses whether the establishment is organized to receive patients in the emergency department 24 hours a day, 7 days a week. It involves reception by trained professionals, care adapted according to the degree of emergency, reorientation, or transfer, and knowledge of the availability of hospital beds. **Organization of the operating rooms** indicates whether a hospital has set up an organization in the operating room to ensure maximum patient safety. Since operating rooms often handle difficult, complex cases, a highly structured organization is crucial for patient safety. **Safety of endoscopy patients** assesses whether the hospital has identified the major risks that may arise at each stage of an endoscopy. Endoscopy is a medical examination that explores the interior of an organ or a body cavity by inserting a small camera.

For hospitals that were already assessed according to the new reference system, three different hospital quality metrics were used. If available, the following metrics were used to calculate an overall score:

- Facility
- Patient
- Care teams

The three hospital quality metrics are composed of several subscores. For example, the metric "Patient" includes scores for "Involvement of the patient," "Involvement of relatives and/or carers," "Respect for the patient," and "The patient's living conditions and social ties are taken into account." HAS assigns a score between 0 and 100 for each of the three metrics mentioned. All the data and the description of the hospital quality metrics are also available at:

<https://www.has-sante.fr/>

Patient Satisfaction

Patient satisfaction data was also used in determining the overall score of French hospitals. HAS provides comprehensive data from patient surveys. For this project, the overall score given by hospitalized patients was used, as well as the share of patients who would recommend the hospital that they were treated in. The overall score is calculated using a range of different variables such as the level of support from doctors and/or nurses, the organization of the whole treatment process, the quality of food, patient satisfaction with the accommodation, etc. The recommendation of a hospital was assessed by asking the patients whether they would recommend the respective hospital to friends and family members.

All the data and the description of patient satisfaction are available at:

<https://www.has-sante.fr/>

f. Italy

There are currently around 1,051 hospitals in Italy. The healthcare system is based on a national health service known as Servizio Sanitario Nazionale (SSN). 568 hospitals are publicly owned, while 483 hospitals are owned by private organizations accredited with the SSN (Istat – Istituto nazionale di statistica, 2025).

To provide measures for these hospitals, publicly available data was used for both hospital quality metrics and patient satisfaction.

The data for hospital quality metrics derives from the National Outcome Assessment Program (PNE), managed by the National Agency for Regional Health Services on behalf of the Ministry of Health, and published at *Micuro*. For this project, only the indicators that are comparable to the national reference values are used. These reference values are recognized and validated by the Italian Ministry of Health. All quality indicators that are published fulfill the same criteria—scientific validity, expressiveness, and operational feasibility—making it possible to compare them on a national level. The individual indicators are rated using a two-point scale.

The number of available indicators differs from hospital to hospital, based on their size and range of treatment. In general, all indicators can be divided into four different categories:

- Effectiveness
- Safety
- Appropriateness
- Competence

Hospital quality metrics from the category **Effectiveness** indicate whether a hospital achieves the expected results in terms of patient health. An example for this category is the indicator “Survival 30 days after surgery”. It measures the percentage of patients who survive for 30 days after a surgery, compared to the total number of patients who underwent the same surgery. The higher the relative number of patients who survived, the higher the value for this indicator. Hospital quality metrics that belong to the category **Safety** measure how well a hospital avoids or prevents adverse events during the care process. One of the indicators in this category is “complications within 30 days after surgery,” which measures the number of patients that experience at least one complication in the 30 days following a surgery. The third category, **Appropriateness**, comprises measures that indicate if a hospital offers adequate clinical services to a patient. The offered services should meet the needs of a patient and aim for the best medical outcome. An example for this case would be the measure “percentage of deliveries with primary caesarean section.” Sometimes caesarean delivery is performed without there being a need (medical indication), and therefore exposes the mother and unborn child to an avoidable risk. A low number of caesarean sections may therefore indicate a higher degree of appropriateness. The last category, **Competence**, lists indicators that can be associated with the competence and experience of the hospital’s personnel. A typical

indicator in this category is the “annual volume of a specific type of surgery.” A higher volume of the same surgical procedure indicates more experienced physicians and a higher level of routine for the given procedure. Still, it cannot be associated with the outcome of a single surgery (Micuro, 2023).

The data used is available at:

<https://pne.agenas.it/home>

The data is published at:

<https://www.micuro.it/>

Additionally, the **Joint Commission** accreditations were taken into account, for which the list of accredited institutions can be found here:

<https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>

Furthermore, the Emergency Care Levels provided by the Ministero della Salute were considered, for which the list can be found here:

https://www.salute.gov.it/portale/documentazione/p6_2_8_1_1.jsp?lingua=italiano&id=17

Hospitals that were on these lists had the categories as a part of their hospital quality metrics score.

Patient Satisfaction

Micuro also provides an online platform for patients to rate their hospital stay from 1 to 5 in different areas. Examples of categories are: Overall recommendation to family and friends, cleanliness, privacy, general quality, availability and kindness of the staff, medical information received, administrative organization, food, and visits.

All the data and the description of patient satisfaction are available at:

<https://www.micuro.it/>

g. United Kingdom

In the UK, there are currently around 1,148 hospitals (Interweave Healthcare, 2023). Of these, 930 are owned by the government and operated by the National Health Service (NHS). Among these NHS hospitals, 704 are located in England, 105 in Scotland, 84 in Wales, and 37 in Northern Ireland. In addition, There are also 218 private hospitals across

the UK. The healthcare system is tax-based and guarantees universal coverage for all UK citizens.

The data used for this project is derived from the Care Quality Commission (CQC) database as of November 2024. CQC is an independent regulator of health and social care in England. The commission monitors, inspects, and rates health services that are provided to the public. After a comprehensive inspection, CQC publishes a rating on a location-by-location basis in five different categories:

- Safe
- Effective
- Caring
- Responsive
- Well-led

For each of these categories, a healthcare organization can be graded as “outstanding,” “good,” “requires improvement,” or “inadequate.” The achieved grade is a result from findings during the inspection, done by a professional team. **Safe** is an indicator for the overall protection of patients. The inspectors gather evidence that patients are protected from abuse and avoidable harm. Several different factors play a role in the patient’s safety, e.g., an appropriate number of staff, the correct use of medicine, prevention of infections, etc. **Effective** assesses whether a patient’s treatment and the support they receive lead to good outcomes and promote a good quality of life. This metric also results from the inspection of different variables: level of training and experience of staff, assessment of patient needs, cooperation with other organizations to secure the best outcome, etc. The next category, **Caring**, refers to the compassion, kindness, dignity, and respect that patients are treated with during their stay. Inspectors determine whether patients’ equality, diversity, and privacy are respected, and whether they are involved in decisions regarding their care. For the fourth category, **Responsive**, CQC is looking for evidence that the service meets patients’ needs. This is the case if a hospital meets the individual needs of their patients, if the staff is learning from and responding to complaints and concerns, and if the hospital is planning ahead in order to improve access and flow. The last category, **Well-led**, is an indicator for the quality of leadership, management, strategy, and improvement of the inspected organization. Organizations receive a higher grade if the management is promoting a person-centered and open culture, if they are being clear about their roles, if they work in partnership with others to improve outcomes, and if they are continuously improving their service.

Since CQC only rates hospitals in England, data is not available for hospitals in Scotland, Wales, and Northern Ireland.

All used data was accessed from and is available at:

<https://www.cqc.org.uk/>

h. Brazil

In Brazil, healthcare is structured in a National Healthcare System, resulting in universal, free coverage for all permanent Brazilian residents. Currently operating around 7,191 hospitals, of which 2,725 are provided by public institutions and 4,466 by private institutions (Confederação Nacional de Saúde, 2022). Despite the large number of hospitals, the average hospital size is quite small. The density of hospital beds is also quite low, with 1.99 hospital beds per 1,000 inhabitants in 2022 (Confederação Nacional de Saúde, 2022).

In addition to the peer recommendations, hospital quality metrics were used to calculate the overall score. The analyzed hospital quality metrics were published by the Brazilian National Supplementary Health Agency (Agência Nacional de Saúde Suplementar (ANS)), which is responsible for the health insurance sector in the country. For the analysis, participation in the Qualification Program for Health Service Providers (Programa de Qualificação dos Prestadores de Serviços de Saúde - QUALISS) was evaluated for general hospitals in the following subgroups:

- Patient Safety
- Quality Monitoring Program
- Notivisa Incident Reporting Program

The **Patient Safety** group displays the hospitals that are officially registered patient safety centers at ANVISA (Agência Nacional de Vigilância Sanitária). ANVISA is the Brazilian regulatory agency responsible for the approval and supervision of pharmaceuticals, health services, medical devices, and other areas. The **Quality Monitoring Program** is an initiative of the ANS, which aims to encourage improvements in the quality of services through monitoring and evaluating the performance and quality of care in hospitals. The **Notivisa Incident Reporting Program** is the national system for reporting and recording incidents, adverse events, and technical complaints related to the use of technologies and care processes.

Additionally, four accreditations were considered as part of the hospital quality metrics score. More information and the lists of accredited organizations can be found under the following links:

- **Joint Commission**
<https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>
- **Quality Global Alliance**
<https://qga.global/instituicoes-acreditadas/>
- **Organização Nacional de Acreditação (ONA)**
<https://www.ona.org.br/mapa-de-acreditacoes>
- **PADI**
<https://padi.org.br/servicos-acreditados/>

i. Canada

In total, there are 1,017 hospitals in Canada as of 2024. The hospitals are funded publicly, acting as independent institutions incorporated under provincial Corporations Acts. The most populated provinces in Canada, Ontario and Quebec, also have the largest number of hospitals (299 in Ontario and 158 in Quebec). Prince Edward Island, on the other hand, has only eight hospitals (Government of Canada, 2024).

The hospital quality metrics used for the ranking of Canadian hospitals are published by the **Canadian Institute for Health Information (CIHI)**. In Canada, hospitals in all provinces except Quebec submit data to the Discharge Abstract Database (DAD) and/or the National Ambulatory Care Reporting System (NACRS) that is governed by CIHI. In Quebec, hospitals submit their data to the Maintenance et Exploitation des Données pour l'Étude de la Clientèle Hospitalière (MED-ÉCHO) database (<https://www.msss.gouv.qc.ca/professionnels/documentation-sources-de-donnees-et-indicateurs/sources-de-donnees-et-metadonnees/med-echo/>), which in turn submits their data to CIHI. The combined data is entered into the Hospital Morbidity Database (HMDB) and contains a wide range of risk-adjusted clinical indicators that measure health system performance. Data is reported only if a certain number of cases per treatment/measure is met or if certain stability criteria (based on the risk adjustment) are satisfied. CIHI also applies statistical outlier analysis to detect values that lie outside of the range of acceptable indicator values and subsequently removes these outliers to prevent bias in the reported averages.

The data used is based on the most recent reporting period for 2023/2024 (except for Quebec, where only data from 2022/2023 was available). The 22 indicators used to determine the score were:

- All Patients Readmitted to Hospital
- Hip Fracture Surgery Within 48 Hours
- Hospital Deaths (Hospital Standardized Mortality Ratio)
- Hospital Deaths Following Major Surgery
- Medical Patients Readmitted to Hospital
- Obstetric Patients Readmitted to Hospital
- Obstetric Trauma (With Instrument)
- Pediatric Patients Readmitted to Hospital
- Emergency Department Wait Time for Physician Initial Assessment
- Experience Pain in Long-Term Care
- Experiencing Worsened Pain in Long-Term Care
- Falls in the Last 30 Days in Long-Term Care
- Improved Physical Functioning in Long-Term Care
- In-Hospital Sepsis
- Potentially Inappropriate Use of Antipsychotics in Long-Term Care
- Restraint Use in Long-Term Care
- Surgical Patients Readmitted to Hospital
- Total Time Spent in Emergency Department for Admitted Patients
- Worsened Depressive Mood in Long-Term Care
- Worsened Physical Functioning in Long-Term Care
- Worsened Pressure Ulcer in Long-Term Care
- Low-Risk Caesarean Sections

All Patients Readmitted to Hospital is a measure for the risk-adjusted rate of urgent readmissions within 30 days of discharge for obstetric, pediatric, surgical, and medical patients. **Hip Fracture Surgery Within 48 Hours** is the risk-adjusted proportion of hip fractures that were surgically treated within 48 hours of a patient's initial admission to

an acute care hospital. **Hospital Deaths** or Hospital Standardized Mortality Ratio (HSMR) refers to the ratio of the observed number of in-hospital deaths to expected in-hospital deaths, based on the types of patients treated in the respective hospital. **Hospital Deaths Following Major Surgery** measures the rate of in-hospital deaths due to all causes within 30 days after a major surgery.

Medical Patients Readmitted to Hospital is the indicator for the risk-adjusted rate of readmission for medical patients within 30 days. Similarly, **Obstetric Patients Readmitted to Hospital** measures the risk-adjusted rate of urgent readmissions for obstetric patients. **Obstetric Trauma (with Instrument)** measures the rate of obstetric trauma for instrument-assisted vaginal deliveries. **Pediatric Patients Readmitted to Hospital** refers to the risk-adjusted rate of urgent readmissions for patients aged 17 and younger. The **Emergency Department Wait Time for Physician Initial Assessment** measures the time interval between registration and initial assessment in the emergency department in hours (90% of patients spent less than the recommended maximum waiting time).

As some hospitals in Canada also perform long-term care, **Experiencing Pain in Long-Term Care** (in %) was used for those hospitals. **Experiencing Worsened Pain in Long-Term Care** refers to the percentage of long-term care residents who experienced worsened pain. Worsened pain is connected to a resident's health status and the quality of care received. **Falls in the Last 30 Days in Long-Term Care** is an indicator of the percentage of residents in long-term care who fell in the last 30 days before their quarterly clinical assessment. Fewer falls indicate higher safety and quality of care for residents.

Improved Physical Functioning in Long-Term Care indicates the percentage of long-term care residents who improved or remained independent in transferring and locomotion. This is an indicator of overall health status and autonomy of the resident. **In-Hospital Sepsis** refers to the risk-adjusted rate of sepsis after admission.

The percentage of residents on antipsychotics without a diagnosis of psychosis is captured by the **Potentially Inappropriate Use of Antipsychotics in Long-Term Care** indicator. A lack of careful monitoring might indicate concerns about safety and quality of care. **Restraint Use in Long-Term Care** measures how many long-term residents are in daily physical restraints. A high rate carries potential physical and psychological risks. The indicator **Surgical Patients Readmitted to Hospital** measures the risk-adjusted rate of urgent readmissions for surgical patients within 30 days. Furthermore, **Total Time Spent in Emergency Department for Admitted Patients** is used to determine the time interval between registration, admissions, and release from the emergency

department (90% of patients spent less than the recommended maximum waiting time). **Worsened Depressive Mood in Long-Term Care** indicates the percentage of long-term care residents whose mood from symptoms of depressions worsened, whereas **Worsened Physical Functioning in Long-Term Care** indicates the percentage of residents whose transfer and locomotion functioning worsened or remained completely dependent. **Worsened Pressure Ulcer in Long-Term Care** shows the percentage of long-term care residents whose stage 2 to 4 pressure ulcer worsened since the previous assessment. Lastly, **Low-Risk Caesarean Sections** measures the rate of deliveries via caesarean section (C-section) among singleton term cephalic pregnancies for low-risk nulliparous women in spontaneous labor.

In order to account for differences in patient characteristics across hospitals, CIHI uses established regression-based risk-adjustment methods to control for patient characteristics and other risk factors that may affect outcomes. As a result, risk-adjusted indicators report the risk-adjusted rate (e.g., by dividing the observed number of cases by the expected number of cases, multiplied by the Canadian average).

Not all indicators were relevant for all hospitals, depending on the type of patients treated. For example, if the hospital does not have any or enough ulcer patients, the indicator does not apply (applies mostly to long-term care indicators). Only relevant indicators were incorporated in the calculation of the hospital quality metrics score for each hospital.

All used data was accessed from and is available at:

<https://yourhealthsystem.cihi.ca/hsp/indepth?lang=en#/>

Additionally, the **Accreditation Canada and ANCC Magnet Organization** certifications were taken into account, for which the list of accredited/certified institutions can be found here:

<https://accreditation.ca/>

<https://www.nursingworld.org/organizational-programs/magnet/find-a-magnet-organization/>

Hospitals that were on this list had the category as a part of their hospital quality metrics score.

j. Australia

According to the Australian Institute of Health and Welfare, there are approximately 1,354 hospitals in Australia as of 2022. Of these, 697 are public, while 657 are private hospitals. The total number of available hospital beds per 1,000 inhabitants is 2.5 (AIHW, 2022).

For the World's Best Hospitals ranking, the following data provided by the Australian Institute of Health and Welfare was used for comparison:

- Time spent in emergency departments
- Healthcare-associated bloodstream infections
- Waiting times for elective surgery

The available dataset for **Time spent in emergency departments** displays data for public Australian hospitals in the time period between 2023 and 2024. It measures how many patients from the emergency department were seen within the recommended maximum waiting time. Recommended maximum waiting times vary depending on the urgency of the patient's need for care and are clustered into five different categories: resuscitation, emergency, urgent, semi-urgent, and non-urgent. For each reporting unit, the percentage of patients seen on time is compared to their peer group average. The hospitals are clustered into seven different peer groups: large metropolitan hospitals, large regional hospitals, major hospitals, medium metropolitan hospitals, medium regional hospitals, small hospitals, and children's hospitals. The differentiation by urgency levels and hospital sizes allows for a fairer basis of comparison and more precise measures. **Healthcare-associated bloodstream infections** measures how many bloodstream infections can be associated with care provided at a hospital. Hospitals are also clustered into different peer groups for better comparison: major hospitals, large hospitals, medium hospitals, and children's hospitals. Private hospitals are listed in their own peer group. The infection is displayed as a rate per 10,000 patient days, next to the peer group average. The available data relates to the time period between 2022 and 2023. The last indicator, **waiting times for elective surgery**, measures the percentage of elective surgeries within the recommended maximum waiting time. The hospitals are clustered in the same peer groups as in the first described indicator. Additionally, the treating doctor determines how urgently surgery is needed and then assigns the patient to one of three urgency categories: recommended within 30 days, recommended within 90 days, or recommended within 365 days. Each hospital then has three values that are comparable to their peer group average. The data derives from the time period between 2023 and 2024.

All used data was accessed from and is available at:

<https://www.aihw.gov.au/>

k. Austria

The healthcare system in Austria is publicly funded and follows the principle of statutory health insurance, leading to a 99% coverage of all Austrian citizens. In 2024, a total of 265 hospitals existed in Austria, 112 of which were general hospitals (BMSGPK (Österreich), 2024).

The hospital quality metrics used for the national ranking of Austrian hospitals are published by the Austrian Federal Ministry of Social Affairs, Health, Care and Consumer Protection. There are seven quality indicators for 51 different medical treatments available. These quality indicators are derived from a nationwide quality measurement program, the Austrian Inpatient Quality Indicators (A-IQI), where hospitals must provide information at regular intervals. The results are published at [Kliniksuche.at](https://www.kliniksuche.at). The following indicators were used as part of the hospital quality metrics score:

- Patient orientation
- Complaint/feedback management
- Patient safety/risk management
- Discharge management
- Safety in the operating room
- Hospital hygiene
- Minimum requirements for quality management

For each indicator, a degree of fulfillment is displayed, categorized as: a) fulfilled, b) partially fulfilled, or c) not fulfilled.

Additionally, the length of stay compared to the nationwide average is used to calculate the overall hospital quality metrics score. The median serves as the statistical method to indicate whether a hospital is (a) equal to/above the national comparison value, or (b) below the nationwide comparison value. The indicator for the length of stay is shown only if a hospital treated more than 10 cases within the given time frame.

The data used is available at:

<https://gesundheitsfonds-steiermark.at/qualitaetsarbeit/qualitaetsberichterstattung/>
<https://www.sozialministerium.at/>

The data is published at:

<https://kliniksuche.at/>

I. The Netherlands

There are 113 hospitals in the Netherlands: 98 of them are general hospitals, eight are University Medical Centers, and seven are specialized pediatric clinics (Rijksinstituut voor Volksgezondheid en Milieu (RIVM), 2024). Healthcare is managed by the government and is universal for all Dutch citizens. Anyone living or working in the Netherlands must obtain basic level health insurance from a private insurance company.

For the hospital ranking in the Netherlands, patient satisfaction data was used. This data is provided by Patiëntenfederatie Nederland (Patients Federation of the Netherlands). The data is available on ZorgkaartNederland, an online platform where patients can provide (subjective) ratings of hospitals where they received treatment. Hospitals can obtain a grade between 1 and 10, based on the number of recommendations they receive from patients.

All used data was accessed from and is available at:

<https://www.zorgkaartnederland.nl/>

Additionally, the **Joint Commission** accreditation was taken into account, for which the list of accredited institutions can be found here:

<https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>

m. Switzerland

The Swiss healthcare system is highly decentralized, divided among three levels of the government: the federal level, the canton level, and the municipal level. As healthcare insurance is mandatory for every citizen, coverage is universal. According to the Swiss Federal Office for Statistics (Bundesamt für Statistik, 2023), there are 275 hospitals in Switzerland as of 2023; 101 are classified as general hospitals and 174 as specialized hospitals.

The Federal Office of Public Health (Bundesamt für Gesundheit (BAG)) publishes standardized mortality ratios for each hospital, which are used as a part of the hospital quality metrics for the Swiss national ranking. Until the end of 2024, the most recent data available was from 2022. The mortality rates are risk-adjusted by age and sex.

All used data was accessed from and is available at:

<https://www.bag.admin.ch/bag/en/home/zahlen-und-statistiken/zahlen-fakten-zu-spitaelern.html>

Additionally, several quality indicators derived from the National Association for Quality Development in Hospitals and Clinics (Nationaler Verein für Qualitätsentwicklung in Spitälern und Kliniken (ANQ)) and published on Spitalfinder were used to evaluate the hospital quality metrics score:

- Postoperative wound infections
- Pressure ulcers
- Falls
- Avoidable re-hospitalization rate

Postoperative wound infections rates measure infections that occur typically within one month after surgery in tissues, organs, or cavities. A **pressure ulcer** is localized damage to the skin and underlying tissue. It can be caused by care errors and is therefore used as an indicator of the care provided in a hospital. Likewise is the number of **falls** an indicator of the quality of nursing care in a hospital. The **avoidable hospital rehospitalization rate** measures potentially avoidable rehospitalizations in relation to the total number of rehospitalizations. Rehospitalizations are considered potentially avoidable if they occur unexpectedly within 30 days and are due to an already known problem.

The data used is available at:

<https://www.anq.ch/de/>

The data is published at:

<https://www.spitalfinder.ch/>

The quality results from Initiative Qualitätsmedizin (IQM) were also used for the ranking. About 500 hospitals from Germany and Switzerland are involved in the IQM to improve the quality of medicine. Hospitals that participate in the Initiative Qualitätsmedizin receive a bonus to their quality metrics score.

Further information about hospital quality results in Germany and Switzerland is available at:

<https://www.initiative-qualitaetsmedizin.de/qualitaetsmethodik>

Patient Satisfaction

In Switzerland, the ANQ is a national association for quality improvement in Swiss hospitals. They have measured patient satisfaction in general hospitals among adults since 2009. Patient satisfaction is assessed in different categories. The following were used for this ranking:

- Quality of treatment
- Questions asked
- Answers given
- Medication management
- Hospital discharge
- Hospital length of stay

For all categories, patients could rate their hospital stay from 1 to 5, with 5 being the highest grade possible. For the first question, patients were asked how satisfied they were with their **quality of treatment** in general. **Questions asked** assesses whether patients had the possibility to ask questions of the medical staff. **Answers given** asks the patient if they received satisfying and understandable answers to their questions. **Medication management** relates to whether the use of medication at home was explained to the patient in an understandable way. **Hospital discharge** evaluates the patient's experience of the discharge process. Finally, patients were asked about their perception of the **length of stay** in the hospital.

The data used is available at:

<https://www.anq.ch/de/>

The data is published at:

<https://www.spitalfinder.ch/>

n. Sweden

Sweden currently has over 100 hospitals (Vården i siffror, 2024). The Swedish counties are grouped into six healthcare regions to facilitate cooperation and maintain a high level of medical care. Emergency services are provided by 70% of the regional hospitals and the university hospitals. The latter are also focused on specialized care (The Commonwealth Fund, 2020). Sweden has a low density of hospital beds per inhabitant, with 1.9 beds per 1,000 inhabitants in 2022 (OECD/European Union, 2024).

The hospital quality metrics used for Swedish hospitals are based on data published by regional governments and local municipalities and are published at Vården i siffror. Indicators are selected by Swedish officials in cooperation with different data holders, such as specific registry data or the National Board of Health and Welfare in Sweden. However, not all indicators are published at the hospital level (e.g., only at the regional level), and others are not comparable across hospitals. Therefore, the most generally applicable indicators for the process were selected to determine the hospital quality metrics score, which was calculated using the most current data:

- Waiting time in emergency room for patients 19 years and older (2022)
 - Data used is available at: Socialstyrelsen, Patientregistret (<https://www.socialstyrelsen.se/statistik-och-data/register/patientregistret/>)
- Waiting time in emergency room for patients 80 years and older (2022)
 - Data used is available at: Socialstyrelsen, Patientregistret (<https://www.socialstyrelsen.se/statistik-och-data/register/patientregistret/>)
- Mortality rate 28 days after hospitalized stroke (2020)
 - Data used is available at: Socialstyrelsen, Dödsorsaksregistret (<https://www.socialstyrelsen.se/statistik-och-data/register/dodsorsaksregistret/>)
- Transfers to another intensive care unit (ICU) due to lack of resources (2023)
 - Data used is available at: Svenska Intensivvårdsregistret (SIR) (<https://www.icuregswe.org/>)
- Risk-adjusted mortality after ICU care (2023)
 - Data used is available at: Svenska Intensivvårdsregistret (SIR) (<https://www.icuregswe.org/>)

The data from the available data sources is published at:

<https://vardenisiffror.se/>

Hospitals with two nearby sites that report their quality metrics as a single unit were ranked as one entity.

o. Norway

In Norway, healthcare is publicly tax-financed, providing universal coverage for all residents. The public healthcare system is structured into four different regional health authorities (RHAs), with each authority operating several trusts. There are public hospital trusts and not-for-profit private hospitals in Norway. With 94% of all hospital stays, the public sector is significantly larger than the private sector. Private hospitals and RHAs can have tender agreements (The Commonwealth Fund, 2020).

Hospital quality metrics for Norwegian hospitals are provided by the Norwegian Directorate of Health. The directorate is an executive agency and professional authority under the Ministry of Health and Care Services, which aims to improve the quality of health services and to promote factors that ensure the population remains in good health (Helsedirektoratet, 2023). Data about the quality of hospitals can be displayed for each hospital or hospital trust. The following hospital quality metrics were used:

- 30-day survival rate (overall, stroke, heart attack, hip fracture)
- 5-year survival rate (breast cancer, rectal cancer, lung cancer, colon cancer)
- 30-day infection follow-up rate (coronary bypass, gallbladder removal, colon surgery, hemiprosthesis insertion (hip), total arthroplasty (hip), caesarean section)
- In-time planned operations

The **30-day survival rate** shows the percentage of patients who survived a time period of 30 days after their discharge from the hospital. It is differentiated into four different categories: overall survival rate, survival rate of stroke patients, survival rate of heart attack patients, and survival rate of patients with a hip fracture. The most recent data available was from 2021. The **5-year survival rate** displays the number of patients who survived a 5-year time period after being diagnosed with a form of cancer: breast cancer, rectal cancer, lung cancer, or colon cancer. The most current data available at the time of the ranking process was from 2023. The **30-day infection follow-up rate** shows the percentage of patients who were assessed for infection within 30 days of their surgery. It is reported for six different procedures: coronary bypass, gallbladder removal, colon surgery, hemiprosthesis insertion (hip), total arthroplasty (hip), and

caesarean section. The most current data available at the time of the ranking process was from 2023. Finally, **in-time planned operations** was calculated using data on **postponement of planned operations**, which indicates how many planned operations were not executed on time, and the **total planned operations**, in order to find the percentage of planned operations that occurred on time. The most recent data was available for 2023.

The hospital quality metrics were assigned to individual hospitals. If a metric was not reported for an individual facility, the metric from the health trust (Helseforetak) was used.

All used data was accessed from and is available at:

<https://www.helsedirektoratet.no/>

p. Denmark

The Danish health system is decentralized and largely tax-funded. The national government provides block grants from tax revenues to the regions and municipalities providing health services. All residents are entitled to publicly funded care, including largely free primary, specialist, hospital, psychiatric, preventive, and long-term care services. Approximately 97 percent of hospital beds are publicly owned. Private hospitals are relatively small and provide mostly specialized care. Patients can choose between public hospitals, and payment follows the patient to the receiving hospital if the facility is located in another region (The Commonwealth Fund, 2020).

The **Danish Clinical Quality Program – National Clinical Registries (RKKP)** manages about 85 clinical registries, which contain information about individual patients and are used for improvement of quality, research, and surveillance purposes (RKKP 2023). Hospital quality metrics from two databases were taken into account for the analysis of the ranking: the Danish Intensive Database (DiD) and the Database for Acute Hospital Contacts (DAH).

The **Danish Intensive Database (DiD)** is a nationwide clinical quality database whose purpose is to record the incidence and results of intensive therapy to assess whether treatment and treatment results are up to the desired level, and to maintain or improve the achieved level of treatment. The most recent report was published in June 2024 and

took patient data from 2023 into account. The following measures were part of the analysis:

- Share of readmissions to intensive care units within 48 hours of discharge for patients admitted >24 hours
- Proportion of readmissions to intensive care unit within 48 hours after discharge to permanent ward for patients admitted ≤ 24 hours
- Proportion of patients transferred to another intensive care unit due to capacity problems

The **Database for Acute Hospital Contacts (DAH)** is a national quality monitoring database of acute patient procedures in Danish hospitals to ensure uniformly high quality of treatment in acute patient care. The most recent report was published in June 2024 and took patient data from 2023 into account. The following measures were part of the analysis:

- Proportion of acute hospital stays of ≥ 12 hours duration where the patient dies within 7 days after arrival
- Proportion of acute hospital stays >1 and <12 hours duration where the patient dies within 7 days after arrival
- Proportion of acute hospital stays <24 hours duration that results in a new acute hospital stay ≤ 72 hours

All data was accessed from and is accessible at:

<https://www.rkkp.dk/kvalitetsdatabaser/>

Patient Satisfaction

In Denmark, patient satisfaction data is collected using the Landsdækkende Undersøgelse af Patientoplevelser (LUP) survey, a collaboration between the five Danish regions and the Ministry of the Interior and Health. The survey was first conducted in 2000, and since 2022, data has been collected on a monthly basis for planned hospitalizations, emergencies, and outpatient procedures. The data from planned hospitalizations from 2023 were used in the ranking. Patient satisfaction is assessed based on ten questions that can be grouped into the following categories:

- Staff friendliness
- Information and engagement from staff
- Quality of treatment

- Quality of hospitalization

For all categories, patients could respond with an answer from 1 to 5, with 5 being the highest score possible.

The data used is available at:

<https://www.regionh.dk/patientinddragelse/LUP/aktuel-undersogelse/Sider/LUP-2023.aspx>

q. Israel

There are currently 88 hospitals in Israel, of which 45 are general hospitals. Thirty-seven are classified as public hospitals, 26 as non-profit private hospitals, and 25 as for-profit private hospitals. The density of beds per inhabitant is average in comparison to most other countries in the ranking, with 3.0 beds per 1,000 inhabitants in 2022 (OECD, 2022).

Since 2013, **the Israeli National Program for Quality Indicators (INPQ) has** promoted continuous improvement in Israeli healthcare quality, by both measuring the quality of care in major care and treatment areas and publicizing the results (Ministry of Health Israel, 2024). The following hospital quality metrics were taken into account for the analysis:

- Acute myocardial infarction: PCI within 90 minutes for patients presenting with STEMI
- Cerebral vascular accident: Median time from hospitals to head CT/MRI for patients with acute ischemic stroke
- Femoral neck fracture: Femoral neck fracture repair within 48 hours
- Emergency department: Median time from arrival at emergency department to triage
- Stroke: Performing risk assessment for an acute ischemic event in the brain for patients with atrial fibrillation
- Infection prevention: Providing adequate antibiotic treatment around colon and/or rectal surgery

All used data was accessed from and is accessible at:

<https://www.gov.il/he/Departments/publications/reports/quality-national-prog-2013-2022>

Patient Satisfaction

The Ministry of Health performs a biannual National Patient Experience Survey in general hospitals in Israel. The latest survey was conducted from May to October 2021. Patients over the age of 18 who were hospitalized for at least two nights were surveyed. Approximately 12,000 patients from 26 hospitals were interviewed.

The questionnaire contained over 40 questions regarding patient-reported experiences: attitude of staff, information delivery, treatment continuity, patient empowerment, efficiency perception, as well as environmental conditions. The number of answers per hospital was adjusted by the ratio of respondents in the sample to the number of actual discharges in each hospital to reflect the national distribution of patients (Ministry of Health Israel, 2023).

Measurements used for the calculation of the patient satisfaction score in the World's Best Hospitals ranking for Israel were:

- Efficiency Measures Index
- Patient Empowerment Index
- Sequence of Treatment Index
- Information and Clarity of Expectations index
- Attitude and Respect for Patient Index
- Willingness to Recommend Score
- General Satisfaction Score

The data for the 2021 survey is available at:

<https://www.gov.il/he/Departments/publications/reports/satisfaction-patients-hospitalization-2021>

Additionally, the **Joint Commission accreditation** was taken into account, for which the list of accredited institutions can be found here:

<https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>

r. **Belgium**

In Belgium, there are a total of 162 hospitals, the majority of which, 123 hospitals, are classified as not-for-profit private hospitals. 39 hospitals are publicly owned. Health Insurance is provided through five private, not-for-profit national associations of sickness funds, one public sickness fund and one fund for railway personnel. There are 5.47

hospital beds available per 1,000 inhabitants, which is above the EU average of 4.8 (OECD, 2022).

In 2017, the Vlaams Instituut voor Kwaliteit van Zorg (VIKZ) was established to enhance transparency and drive improvements in the quality of care and patient safety within the Flanders region. The following hospital quality metrics were taken into account for the analysis:

- Key requirements for effective hand hygiene
- Verification of the patient's identification band
- Checklist for safe surgeries
- Unplanned emergency readmissions
- Assessment of pressure ulcer risk

All used data was accessed from and is accessible at:

<https://www.zorgkwaliteit.be/algemeen-ziekenhuis>

Patient Satisfaction

The Vlaams Instituut voor Kwaliteit van Zorg (VIKZ), in collaboration with the Vlaams Patiëntenplatform and consultations with experts and patient representatives, developed a patient survey to measure and improve patient satisfaction. The questionnaire includes 28 questions about patient experience across various dimensions, focusing on the care received by the patients.

Measurements used for the calculation of the patient satisfaction score in the World's Best Hospitals ranking for Belgium were:

- General Satisfaction Score
- Recommendation of the hospital for family and friends

The data for the 2023 survey is available at:

<https://www.zorgkwaliteit.be/algemeen-ziekenhuis>

Additionally, accreditation from the **Joint Commission and Accreditation Canada** were considered, for which the list of accredited institutions can be found here:

<https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>

<https://accreditation.ca/find-intl-accredited-service-provider/>

The analysis utilized the previously mentioned hospital quality metrics and patient satisfaction data for hospitals in the Flanders region. Since such data, or comparable data, is not publicly available for hospitals in other parts of Belgium, their analysis continues to

rely on accreditations from the Joint Commission, Accreditation Canada and Google Scores.

Due to the structure of the analysis, hospitals lacking quality metrics and patient satisfaction data due to regional differences are not at a disadvantage compared to those with additional data.

s. **Other Countries**

Hospital quality metrics and patient satisfaction data were not available for a few countries. These countries are:

- Belgium (all regions excluding Flanders)
- Chile
- Colombia
- Finland
- India
- Malaysia
- Mexico
- Saudi Arabia
- Singapore
- Spain
- Taiwan
- Thailand
- United Arab Emirates

For those countries, the national score is based on national and international recommendations as well as Google-Scores, albeit with a lower weight (7.5%) than the preferable patient satisfaction data sources. Additionally, the following national accreditations and certifications were taken into account:

- **Accreditation Canada** (for Belgium and the United Arab Emirates):
<https://accreditation.ca/find-intl-accredited-service-provider/>
- **Joint Commission** (for Belgium, Colombia, Chile, India, Malaysia, Mexico, Saudi Arabia, Spain, Taiwan, Thailand, and the United Arab Emirates):

- <https://www.jointcommissioninternational.org/about-jci/accredited-organizations/>
- **National Accreditation Board for Hospitals & Healthcare Providers (NABH)** (for India): <https://www.nabh.co/frmViewAccreditedHosp.aspx>
 - **Saudi Central Board for Accreditation of Healthcare Institutions (CBAHI)** (for Saudi Arabia): <https://portal.cbahi.gov.sa/arabic/accreditation-status/s>
 - **Healthcare Accreditation Institute (HAI)** (for Thailand): <https://www.ha.or.th/EN/Hospitals/Certificate%20Status>
 - **The Malaysian Society for Quality in Health (MSQH)** (for Malaysia): <https://www.msqh.com.my/web/index.php/en/>
 - **National Accreditation Superintendencia de Salud (SIS)** (for Chile): <https://www.supersalud.gob.cl/acreditacion/673/w3-propertyvalue-4710.html>
 - **Planetree** (Colombia, Malaysia, Saudi Arabia, the United Arab Emirates): <https://www.planetree.org/person-centered-care-certified-sites>
 - **The Colombian Institute of Technical Standards and Certification (ICONTEC)** (for Colombia) <https://acreditacionensalud.org.co/instituciones/>
 - **American Nurses Credentialing Center (ANCC) Magnet Organization certification** (Mexico, Saudi Arabia, the United Arab Emirates): <https://www.nursingworld.org/organizational-programs/magnet/find-a-magnet-organization/>
 - **Joint Commission of Taiwan** (for Taiwan)⁶: <https://www.jct.org.tw/mp-2.html>

The length of these lists is relatively short compared to the total number of hospitals in these countries to reflect the fact that less data was available than for the other countries.

⁶ The National Healthcare Quality Award, as well as the Health Check-Up Program Certification, was taken into account.

3 Distribution of participants

Professional activity	% Share of participants
Medical doctor	67%
Healthcare professional	18%
Hospital manager/director	15%

The table above shows the percentage share of all participants by professional activity. In accordance with the study design, the majority of survey participants were medical doctors, followed by healthcare professionals (e.g., nurses).

In several participating countries, the distribution of survey participants was slightly different:

While for some countries, such as Chile, Norway, and the Netherlands, the survey participants were all medical doctors, the biggest group of participants from Saudi Arabia were healthcare professionals (e.g., nurses, paramedics, physiotherapists, midwives), accounting for 51% of participants. The share of medical doctors from Saudi Arabia was 36%, and the share hospital managers/directors was 13%. On the other end of the spectrum, in the United States of America, 96% of the participants were medical doctors, 3% of all survey participants were healthcare professionals, and just 1% were hospital managers/directors. On the other hand, a relatively high number of hospital managers/directors participated in Taiwan with 33%.

In conclusion, in all participating countries, except for Saudi Arabia, most participants were medical doctors. The percentage share of healthcare professionals and hospital managers/directors differed across participating countries, but these variations did not significantly impact voting behavior in any of the national samples.

4 Disclaimer

The rankings are comprised exclusively of hospitals that are eligible regarding the scope described in this document. A mention in the ranking is a positive recognition based on peer recommendations and publicly available data sources at the time. The ranking is the result of an elaborate process which, due to the interval of data collection and analysis, is a reflection of the last calendar year. Furthermore, events preceding or following

the period 01/01/2024–31/12/2024 and/or pertaining to individual persons affiliated/associated to the facilities were not included in the metrics. As such, the results of this ranking should not be used as the sole source of information for future deliberations. The information provided in this ranking should be considered in conjunction with other available information about hospitals or, if possible, accompanied by a visit to a facility. The quality of hospitals that are not included in the rankings is not disputed.

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Appendix A

PROMs Implementation Survey Section	Weight
PROMs Status Assessment	5%
PROMs team	5%
Number of Standardized PROMs	6.5%
Condition Specific PROMs - Case Mix adjustment	6%
Condition Specific PROMs - Scientifically validated	4%
Condition Specific PROMs - Response rate	7.5%
Reporting PROMs results internally to clinicians	5%
Reporting PROMs results internally to management board	5%
Reporting PROMs results internally to patients	5%
Provide patients individual reports of PROMs data	5%
Reporting PROMs results to the public	10%
Audit before publishing the data	6%
Using PROMs data to optimize care processes	7.5%
Using PROMs data to support therapeutic decisions in real-time	7.5%
Using PROMs data for shared decision making	7.5%
Sharing and comparing PROMs data with other institutions	7.5%

Appendix B

The following 2022 AHA Annual Survey indicators were used within the US Ranking:

1. Total hospital beds (calculated)⁷
2. Accountable for meeting health equity goals - CEO
3. Accountable for meeting health equity goals - committee or task force
4. Accountable for meeting health equity goals - designated senior executive
5. Accountable for meeting health equity goals - division/department leaders
6. Adult cardiac electrophysiology - hospital
7. Adult cardiac surgery - hospital
8. Adult cardiology services - hospital
9. Adult interventional cardiac catheterization - hospital
10. AI or machine learning - automating routine tasks
11. AI or machine learning - does not apply
12. AI or machine learning - optimizing administrative and clinical workflows
13. AI or machine learning - predicting patient demand
14. AI or machine learning - predicting staffing needs
15. AI or machine learning - staff scheduling
16. Arthritis treatment center - hospital
17. Assistive technology center - hospital
18. Basic interventional radiology - hospital
19. Birthing room/LDR room/LDRP room - hospital

⁷ The number of beds was used as a feasibility check and had no impact on the scoring model

20. Bone marrow transplant - hospital
21. Breast cancer screening/mammograms - hospital
22. Cardiac - Limited service hospital
23. Cardiac intensive care - hospital
24. Cardiac rehabilitation - hospital
25. Certified trauma center - hospital
26. Chemotherapy - hospital
27. Computed Tomography (CT) scanner - hospital
28. Computer assisted orthopedic surgery (CAOS) - hospital
29. DEI disaggregated data to inform decisions - patient outcomes
30. DEI disaggregated data to inform decisions - professional development
31. DEI disaggregated data to inform decisions - training
32. Diagnostic radioisotope facility - hospital
33. Does the hospital or health system also administer benefits?
34. Does the hospital or health system fund the health benefits of your employees?
35. Electron Beam Computed Tomography (EBCT) - hospital
36. Full-field digital mammography (FFDM) - hospital
37. General medical and surgical care (adult) - hospital
38. General medical and surgical care (pediatric) - hospital
39. Has your hospital or health care system established an accountable care organization?
40. Health equity strategic planning - diverse representation in hospital and health care system governance
41. Health equity strategic planning - diverse representation in hospital and health care system leadership

42. Health equity strategic planning - equitable and inclusive organizational policies
43. Health equity strategic planning - systematic and shared accountability for health equity
44. Health research - hospital
45. Health screenings - hospital
46. Heart transplant - hospital
47. Hospice program - hospital
48. Hospital owns trauma certification
49. Image-guided radiation therapy - hospital
50. Imaging centers
51. Incorporating workforce as part of strategic planning - conduct needs assessment
52. Incorporating workforce as part of strategic planning - recruitment & retention planning
53. Incorporating workforce as part of strategic planning - talent development plan
54. Inpatient palliative care unit - hospital
55. Intensity-modulated radiation therapy (IMRT) - hospital
56. Intraoperative magnetic resonance imaging - hospital
57. Level of trauma center
58. Limited service hospital
59. Magnetic resonance imaging (MRI) - hospital
60. Magnetoencephalography (MEG) - hospital
61. Medical/surgical intensive care - hospital
62. Multi-slice spiral computed tomography < 64 slice - hospital
63. Multi-slice spiral computed tomography 64 + slice - hospital

64. Neurological services - hospital
65. Obstetrics care - hospital
66. Off-campus emergency department - hospital
67. On-campus emergency department - hospital
68. Oncology services - hospital
69. Orthopedic - Limited service hospital
70. Orthopedic services - hospital
71. Other intensive care - hospital
72. Other telehealth - hospital
73. Pain management program - hospital
74. Palliative care program - hospital
75. Patient education center - hospital
76. Positron emission tomography (PET) - hospital
77. Positron emission tomography/CT (PET/CT) - hospital
78. Primary care department - hospital
79. Prosthetic and orthotic services - hospital
80. Proton beam therapy - hospital
81. Robotic surgery - hospital
82. Shaped beam radiation system – hospital
83. Single photon emission computerized tomography (SPECT) - hospital
84. Sports medicine – hospital
85. Stereotactic radiosurgery – hospital
86. Telehealth consultation and office visits - hospital
87. Telehealth eICU - hospital

88. Telehealth remote patient monitoring: ongoing chronic care management - hospital
89. Telehealth remote patient monitoring: post-discharge - hospital
90. Telehealth stroke care - hospital
91. Telehealth/virtual care - number of audio visits
92. Telehealth/virtual care - number of patients monitored through remote patient monitoring
93. Telehealth/virtual care - number of patients receiving other virtual services
94. Telehealth/virtual care - number of video visits
95. Ultrasound - hospital
96. Urgent care center - hospital
97. Women's health center/services - hospital
98. Wound management services - hospital