

METHODOLOGY

America's Best Neurological Hospitals 2024



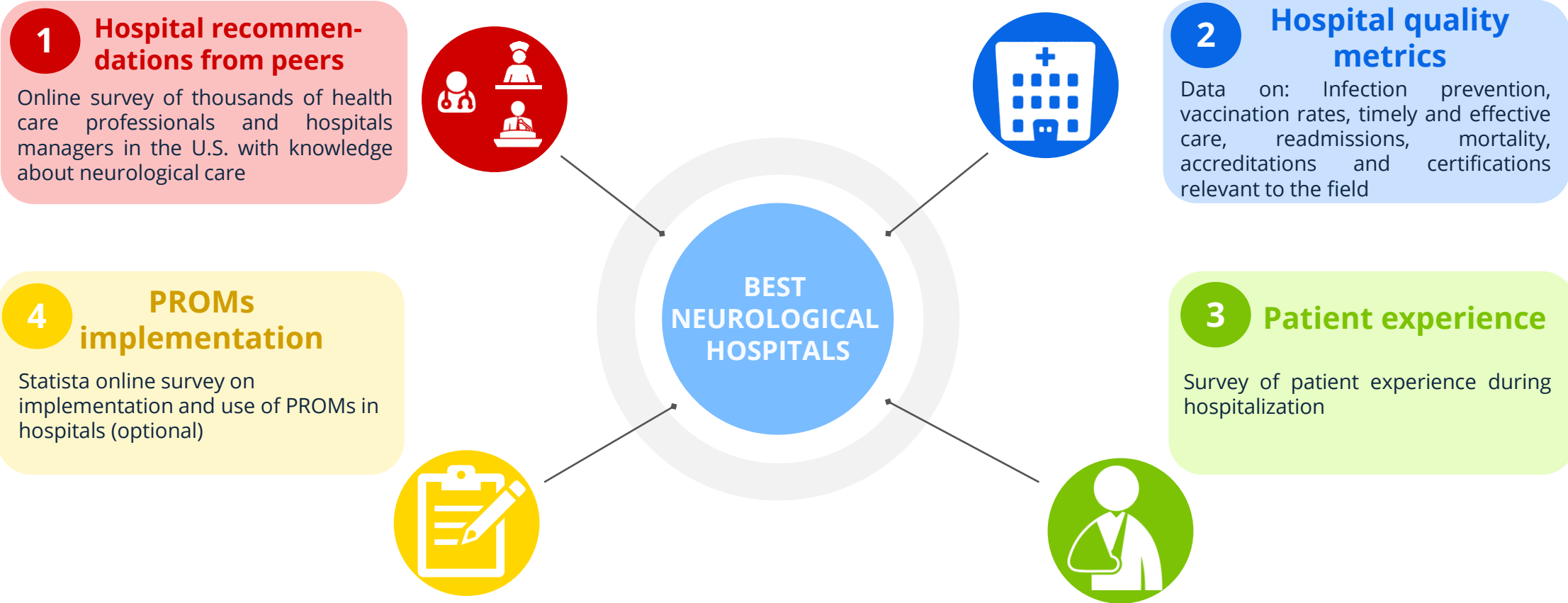
Methodology – America’s Best Neurological Hospitals 2024

Summary of the project

- The U.S. population is aging and as a result, the burden of neurological disorders is increasing⁽¹⁾. Thus, seeking the best possible care, the choice of a neurology hospital is crucial in the treatment process.
- To provide patients and family members with a comprehensive resource for informed decision making, Statista and Newsweek have partnered to award the leading neurology hospitals in the U.S.
- The **America’s Best Neurological Hospitals 2024** ranking awards the 175 leading hospitals in the field of **neurological care** in the U.S., as well as highlighting the notable conditions & surgeries.
- The underlying data analysis is based on four **data sources**:
 1. **Nationwide online survey**: Health care professionals and hospital managers with knowledge about neurology e.g., neurologists, neurosurgeons, and neuroscience nurses were asked to recommend leading neurology hospitals in the U.S. The survey was also promoted on newsweek.com
 2. **Hospital quality metrics**: Hospital quality metrics with a focus on indicators relevant to neurological care were considered.
 3. **Results from patient experience surveys**
 4. **Statista PROMs implementation survey**
- Hospitals with a 1-star rating from CMS were not eligible for the ranking.

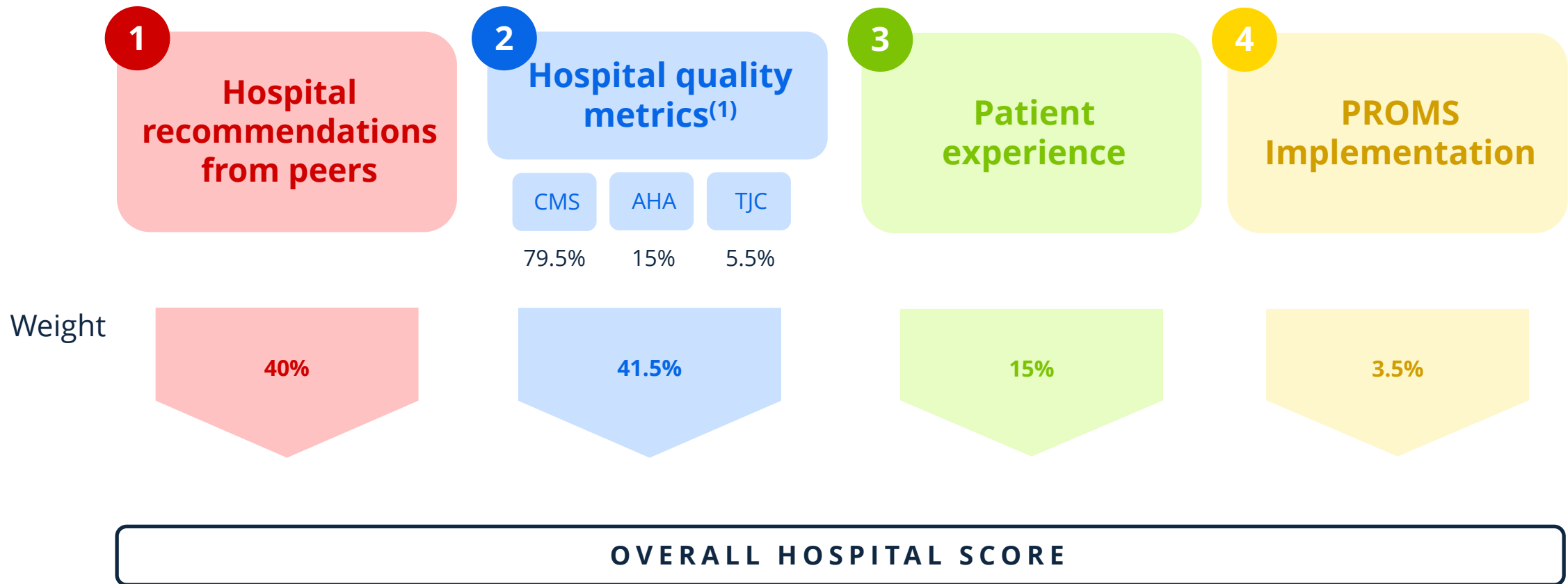
Four data sources were evaluated to identify leading neurology hospitals

Ranking process and scoring model



A score was calculated for each hospital

Scoring model

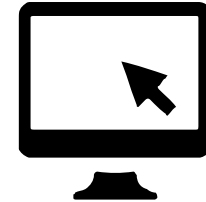


4 | Note: (1) Hospitals need to have a least four measures in order to receive a hospital quality metrics score

Medical experts with knowledge about neurological care were invited to the survey

From April to May 2024, Statista invited thousands of health care professionals with knowledge about neurology hospitals to an online survey

1 Hospital recommendations from peers



Nationwide online survey among health care professionals with knowledge about neurology and hospital managers. Participants were invited via e-mail.

Participants were asked to **recommend neurology hospitals** and to rate them on a scale of 1-10 in the areas of: Provision of care and patient safety, patient education and counseling, neurological rehabilitation, overall nurse staffing and technical equipment. Recommendations for own employer / hospital were not allowed.

The assessments and recommendations were used to determine the **reputation score**. Additionally, participants could recommend the hospital for **notable conditions & surgeries**:

- Alzheimer
- Multiple Sclerosis
- Parkinson's disease
- Epilepsy
- Neurological infections (e.g., Meningitis)
- Brain tumor surgery
- Spinal fusion

SCORE FOR REPUTATION

Publicly available data on neurological hospitals was analyzed

Methodology: Hospital quality metrics – **Part 1**

2



Hospital quality metrics

- Hospital quality metrics relevant to neurological care from a variety of public sources were collected^(1,2). Hospitals with a 1-star rating from CMS were not eligible for the ranking.
- **Medicare and Medicaid Services (CMS)** data was available for:
 - Timely and effective care (e.g. head CT results)
 - Imaging (e.g. MRI Lumbar Spine for Low Back Pain)
 - Readmissions (e.g. Rate of readmission after discharge from hospital)
 - Mortality (e.g. postoperative sepsis rate)
 - Infection Prevention and vaccination rate of staff
 - Patient Satisfaction
- **The Joint Commission (TJC)** data was available for:
 - Hospital Accreditations
 - Advanced Certifications:
 - Acute Stroke Ready Hospital
 - Advanced Certification Spine Surgery
 - Advanced Comprehensive Stroke Center
 - Primary Stroke Center
 - Thrombectomy Capable Stroke Center

SCORE FOR HOSPITAL QUALITY METRICS

Publicly available data on neurology hospitals was analyzed

Methodology: Hospital quality metrics – **Part 2**

2



Hospital quality metrics

- 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 system and features over 1,300 hospital data points⁽¹⁾. For America's Best Neurology Hospitals structural and organizational data of hospital facilities was used to be included in the hospital quality metrics score.
- Following indicator groups of the AHA **Annual Survey of Hospitals Database 2022**⁽²⁾ were used to be part of the quality metrics score^(3,4):

General indicators

- Health research & screening
- Trauma center
- Workforce strategic planning
- Technological equipment

Neurology specific indicators

- Neurological services
- Pain management
- Telehealth stroke care
- Neurology-specific technological equipment

Health equity

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

SCORE FOR HOSPITAL QUALITY METRICS

7 Source: (1) [AHA Annual Survey Database™](#)

Notes: (2) This is the most recently available data from AHA
(3) For each available indicator a hospital received one point as part of the hospital quality metrics score
(4) Please find the specific indicators used in the Appendix

Publicly available patient experience data on neurological hospitals was analyzed

Methodology: Patient experience data

3



Patient experience

- Publicly available data from hospital patient surveys was used to analyze patient experience⁽¹⁾
- Survey topics associated to patient care:
 - Cleanliness of the hospital
 - Communication of the nurses/doctors
 - Care transition
 - Communication about medicines
 - Discharge information
 - Quietness
 - Staff responsiveness

SCORE FOR PATIENT EXPERIENCE

The optional Statista PROMs implementation survey collects data directly from hospitals

Methodology: Statista PROMs implementation survey

4 Statista PROMs implementation survey

- Since 2023, a **PROMs implementation score** has been included in the scoring model of the World's Best Hospitals project.
- **Patient Reported Outcome Measures (PROMs)** are defined as standardized, validated questionnaires completed by patients to measure their perception of their functional well-being and quality of life.
- **Survey cycle:** In fall/winter of 2023, Newsweek and Statista conducted the **voluntary PROMs implementation survey** to determine the status quo of PROMs implementation, audits and reporting of the data, and whether the PROMs data is used to optimize care process and support therapeutic decisions in real-time.
- This year, Statista has partnered with the **International Consortium for Health Outcomes Measurement (ICHOM, www.ichom.org)** as a knowledge partner. ICHOM is the world's leading non-profit organization dedicated to development of standardized measurement of patient-important outcomes (including PROMs) as a basis for driving value-based health care. ICHOM is contributing to the future development of the PROMs implementation survey, in a manner that can drive not only measurement but use of the data from PROMs (and other patient-important outcomes) to advance value based healthcare.
- A **grading system** for the different questions was built to determine a **PROMs implementation score** for each participating hospital. Only hospitals which achieved a minimum of 50% (of the maximum 100% score) were eligible to be graded and received a maximum of up to 3.5% towards the total score.
- Future survey cycles will be announced on r.statista.com, newsweek.com and via e-mail to registered participants. Registrations can be submitted to: hospitals@statista.com.

SCORE FOR PROMS IMPLEMENTATION

As a result, the 175 best neurological hospitals in the U.S. were awarded

Rank	Hospital	City	State	Notable Condition/Surgery
1	Mayo Clinic - Rochester	Rochester	MN	Brain tumor surgery, Epilepsy, Multiple sclerosis, Neurological infections (e.g., Meningitis), Parkinson`s disease, Spinal fusion
2	Massachusetts General Hospital	Boston	MA	Brain tumor surgery, Epilepsy, Neurological infections (e.g., Meningitis), Parkinson`s disease, Spinal fusion
3	NYU Langone Hospitals	New York	NY	Epilepsy, Parkinson`s disease
4	UCLA Health – Ronald Reagan Medical Center	Los Angeles	CA	Brain tumor surgery, Epilepsy, Multiple sclerosis
5	UCSF Medical Center	San Francisco	CA	Brain tumor surgery, Epilepsy, Multiple sclerosis, Neurological infections (e.g., Meningitis), Parkinson`s disease, Spinal fusion

[...]

175 LEADING NEUROLOGICAL HOSPITALS WERE AWARDED

World's Best Hospitals partner network

Overview of involved parties

Newsweek

About Newsweek

Newsweek is a premier news magazine and website that has been bringing high-quality journalism to readers around the globe for over 80 years.

Newsweek provides the latest news, in-depth analysis and ideas about international issues, technology, business, culture and politics. In addition to its online and mobile presence, Newsweek publishes weekly English print editions in the United States, Europe/Middle East/Africa and Asia as well as editions in Japanese, Korean, Polish, Serbian and Spanish.

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Statista R is a world leader in the creation of company, brand, and product rankings and top lists, based on comprehensive market research and data analysis: Statista R recognizes the best. With a team of over 100 expert analysts and in cooperation with more than 40 high profile media brands across all continents, Statista R creates transparency for consumers and business decision makers and helps companies build trust and recognition across a plethora of industries and product categories. Visit [r.statista.com](https://www.r.statista.com) for further information about Statista R and our rankings.

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ICHOM

About ICHOM

The International Consortium for Health Outcomes Measurement (ICHOM, www.ichom.org) is the leading non-profit dedicated to transforming healthcare by focusing on what truly matters to patients. They accomplish this by empowering patient and clinical leaders to standardize important clinical, quality of life, function and experience results for health care, and enabling transparent large-scale use to achieve patient-centric health system transformation. ICHOM's standardized 'sets' of patient-centred outcomes measures help all actors in healthcare design, deliver and evaluate care based on outcomes that matter to patients. To date, ICHOM has developed 45 outcome measure sets for conditions. The sets are available in IT-ready interoperable formats and have been implemented in 500+ care settings in 42+ countries.

statista 

Disclaimer

The rankings are comprised exclusively of hospitals that are eligible regarding the scope described in this document. 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 12 months. Furthermore, events preceding or following the period June 19, 2023 – June 19, 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.

Appendix

Specific 2022 AHA Annual Survey indicators used

1. Total hospital beds (calculated)*
2. Certified trauma center - hospital
3. Level of trauma center
4. Hospital owns trauma certification
5. Health research – hospital
6. Health screenings - hospital
7. Incorporating workforce as part of strategic planning - conduct needs assessment
8. Incorporating workforce as part of strategic planning - talent development plan
9. Incorporating workforce as part of strategic planning - recruitment & retention planning
10. Accountable for meeting health equity goals – CEO
11. Accountable for meeting health equity goals - designated senior executive
12. Accountable for meeting health equity goals - committee or task force
13. Accountable for meeting health equity goals - division/department leaders
14. DEI disaggregated data to inform decisions - patient outcomes
15. DEI disaggregated data to inform decisions – training
16. DEI disaggregated data to inform decisions - professional development
17. Health equity strategic planning - equitable and inclusive organizational policies
18. Health equity strategic planning - systematic and shared accountability for health equity
19. Health equity strategic planning - diverse representation in hospital and health care system leadership
20. Health equity strategic planning - diverse representation in hospital and health care system governance
21. Neurological services – hospital
22. Pain management program – hospital
23. Telehealth stroke care - hospital
24. Single photon emission computerized tomography (SPECT) - hospital
25. Intraoperative magnetic resonance imaging - hospital
26. Magnetoencephalography (MEG) – hospital
27. Magnetic resonance imaging (MRI) – hospital
28. Computed Tomography (CT) scanner - hospital
29. Positron emission tomography (PET) - hospital
30. Positron emission tomography/CT (PET/CT) - hospital
31. Ultrasound - hospital