

# **Neurosurgery Market Size, Trends, Analysis, and Outlook By Product (Neurosurgery devices, Neurosurgery software, Consumables), By Application (Aneurysms, Arteriovenous malformation (AVM), Brain tumors, Carotid artery blockage/stenosis, Cerebrovascular surgery, Cortical mapping, Epilepsy, Functional neurosurgery, Intraoperative angiography, Parkinson's disease and tremors, Peripheral nerve surgery, Pituitary tumors, Radiosurgery, Skull base surgery, Spine surgery, Stereotactic neurosurgery, Trauma surgery, Trigeminal neuralgia, Others), By Age Group (Pediatric, Adult, Geriatric), By End-User (Hospitals, Research centers, Neurosurgery centers, Ambulatory Surgical Centers, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Neurosurgery market size is poised to register 4.55% growth (CAGR) from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Neurosurgery market By Product (Neurosurgery devices, Neurosurgery software, Consumables), By Application (Aneurysms, Arteriovenous malformation (AVM), Brain tumors, Carotid artery blockage/stenosis, Cerebrovascular surgery, Cortical mapping, Epilepsy, Functional neurosurgery, Intraoperative angiography, Parkinson's disease and tremors, Peripheral

nerve surgery, Pituitary tumors, Radiosurgery, Skull base surgery, Spine surgery, Stereotactic neurosurgery, Trauma surgery, Trigeminal neuralgia, Others), By Age Group (Pediatric, Adult, Geriatric), By End-User (Hospitals, Research centers, Neurosurgery centers, Ambulatory Surgical Centers, Others).

The future of neurosurgery is shaped by advancements in imaging technology, surgical robotics, and minimally invasive techniques aimed at improving surgical outcomes, patient safety, and recovery in patients with neurological disorders such as brain tumors, stroke, and movement disorders. Key trends include the development of intraoperative imaging modalities, such as intraoperative MRI and augmented reality navigation, that provide real-time visualization and guidance for precise tumor resection and tissue preservation. Additionally, there is a growing emphasis on the integration of robotic-assisted systems, stereotactic radiosurgery, and neurostimulation devices into neurosurgical practice to enhance procedural accuracy, dexterity, and access to deep-seated brain structures while minimizing surgical trauma and postoperative complications. Moreover, advancements in personalized treatment planning, 3D printing technology, and neuroprotection strategies optimize surgical approaches, facilitate tissue reconstruction, and improve functional outcomes in neurosurgery patients, driving continuous innovation and adoption of neurosurgical techniques in academic medical centers and specialized neurosurgery programs worldwide..

### Neurosurgery Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Neurosurgery market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Neurosurgery survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Neurosurgery industry.

### Key market trends defining the global Neurosurgery demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

### Neurosurgery Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Neurosurgery industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Neurosurgery companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Neurosurgery industry

Leading Neurosurgery companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Neurosurgery companies.

Neurosurgery Market Study- Strategic Analysis Review

The Neurosurgery market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Neurosurgery Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Neurosurgery industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Neurosurgery Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Neurosurgery Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Neurosurgery market segments. Similarly, Strong end-user demand is encouraging Canadian Neurosurgery companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Neurosurgery market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Neurosurgery Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Neurosurgery industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Neurosurgery market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Neurosurgery Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Neurosurgery in Asia Pacific. In particular, China, India, and South East Asian Neurosurgery markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Neurosurgery Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Neurosurgery Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Neurosurgery market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Neurosurgery.

Neurosurgery Market Company Profiles

The global Neurosurgery market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Abbott Laboratories, adeor medical AG., Aleva Neurotherapeutics, B. Braun SE, Boston Scientific Corp, Brainlab AG, Elekta, Integra LifeSciences, Karl Storz SE & Co. KG, LivaNova PLC, Machida

Endoscope Co. Ltd, Medtronic Plc, Nalu Medical Inc, NEVRO Corp, Optofine Instruments Pvt. Ltd, Penumbra Inc, Renishaw Plc, Stryker Corp, Synapse Biomedical Inc, Terumo Medical Corp, WallaBy Medical.

## Recent Neurosurgery Market Developments

The global Neurosurgery market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

## Neurosurgery Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

## By Type

Stationary 3D and 4D Ultrasound Devices

Portable 3D and 4D Ultrasound Devices

## By Display

Color Ultrasound

B/W Ultrasound

## By Portability

Trolley or Cart-Based Ultrasound Systems

Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

## By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

Urology

Vascular

Orthopedic and Musculoskeletal

Pain Management

Others

## By End-User

Hospitals

Surgical Centers and Diagnostic Centers

Maternity Centers

Ambulatory Care Centers

Research and Academia

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Abbott Laboratories

adeor medical AG.

Aleva Neurotherapeutics

B. Braun SE

Boston Scientific Corp

Brainlab AG



Elekta

Integra LifeSciences

Karl Storz SE & Co. KG

LivaNova PLC

Machida Endoscope Co. Ltd

Medtronic Plc

Nalu Medical Inc

NEVRO Corp

Optofine Instruments Pvt. Ltd

Penumbra Inc

Renishaw Plc

Stryker Corp

Synapse Biomedical Inc

Terumo Medical Corp

WallaBy Medical

Formats Available: Excel, PDF, and PPT

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Color Ultrasound  
B/W Ultrasound  
By Portability  
Trolley or Cart-Based Ultrasound Systems  
Compact/Handheld Ultrasound Systems  
Point-of-Pare (PoC) Ultrasound Systems  
By Application  
Radiology or General Imaging  
Obstetrics or Gynecology  
Cardiology  
Urology  
Vascular  
Orthopedic and Musculoskeletal  
Pain Management  
Others  
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Aleva Neurotherapeutics  
B. Braun SE  
Boston Scientific Corp  
Brainlab AG  
Elekta  
Integra LifeSciences  
Karl Storz SE & Co. KG  
LivaNova PLC  
Machida Endoscope Co. Ltd  
Medtronic Plc  
Nalu Medical Inc  
NEVRO Corp  
Optofine Instruments Pvt. Ltd  
Penumbra Inc  
Renishaw Plc  
Stryker Corp

Synapse Biomedical Inc  
Terumo Medical Corp  
WallaBy Medical

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