

Neurosurgery Devices Market By Product (Neurostimulation Devices, Neurointerventional Devices, Neurosurgical Navigation Systems, Cerebral Spinal Fluid (CSF) Management Devices, Others) , By Application (Spinal Cord Stimulation, Deep Brain Stimulation, Neuroendoscopy) By End User (Hospitals, Ambulatory Surgical Centers, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Report description:

The neurosurgery devices market was valued at \$11.9 billion in 2023, and is projected to reach \$34.5 billion by 2033, growing at a CAGR of 11.3% from 2024 to 2033.

Neurosurgery devices are specialized medical equipment designed for diagnosing, monitoring, and treating disorders within the central and peripheral nervous systems, particularly in surgical procedures involving the brain, spinal cord, and nerves. These devices play a crucial role in managing neurological conditions such as brain tumors, aneurysms, traumatic brain injuries, and spinal cord injuries.

Alarming rise in prevalence of neurological disorders such as brain tumors, epilepsy, Parkinson's disease, and spinal cord injuries and surge in need for advanced surgical tools act as the key driving forces of the global neurosurgery devices market. A 2024 study published by the World Health Organization reported that more than 3 billion worldwide are suffering from neurological condition. Furthermore, surge in geriatric population significantly contributes toward the growth of the global market. This is attributed to the fact that as people age, neurons in the brain and nervous system can gradually deteriorate and lose functionality, and thus they become more susceptible to age-related neurological disorders such as Alzheimer's and Parkinson's. . As per the World Health Organization, the number of people aged 60 years and older was 1 billion in 2019. This number is

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estimated to increase to 1.4 billion by 2030 and 2.1 billion by 2050. Moreover, improvement in healthcare infrastructure, increase in investments in medical technology, and higher availability of neurosurgical facilities are the key factors supporting the global market growth. Furthermore, increase in funding for neurological research and healthcare subsidies are aiding in the development and adoption of neurosurgery devices, thereby augmenting the market growth. However, high cost associated with advanced neurosurgery devices, such as robotic surgical systems, imaging equipment, and high-precision tools, restrains the market growth. In addition, dearth of skilled neurosurgeons to operate advanced devices acts as the key deterrent factor of the market. On the contrary, innovations in imaging, robotic assistance, and minimally invasive techniques are enhancing the precision, safety, and efficiency of neurosurgical procedures. Such developments are expected to offer lucrative opportunities for the expansion of the global market during the forecast period.

The global neurosurgery devices industry is segmented into product, application, end user, and region. By product, the market is classified into neurostimulation devices, neurointerventional devices, neurosurgical navigation systems, cerebral spinal fluid (CSF) management devices, and others. On the basis of application, it is segregated into spinal cord stimulation, deep brain stimulation, and neuroendoscopy. Depending on end user, it is fragmented into hospitals, ambulatory surgical centers, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By product, the neurostimulation devices segment held the market share in 2023.

On the basis of application, the deep brain stimulation segment dominated the market, in terms of share, in 2023.

Depending on end user, the hospital segment was the major shareholder in 2023.

Region wise, North America emerged as the most lucrative market for neurosurgery devices in 2023.

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Competition Analysis

Competitive analysis and profiles of the major players in the global neurosurgery devices market include Abbott Laboratories, Ackermann Instrumente GmbH, Adeor Medical AG, B. Braun Melsungen AG, Biotronik SE & Co. KG, Boston Scientific Corporation, Johnson and Johnson, Integra Lifesciences Corporation., Medtronic Plc, and Stryker Corporation. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to sustain the intense competition and gain a strong foothold in the global market.

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- Expanded list for Company Profiles

- Historic market data

Key Market Segments

By Product

- Neurostimulation Devices

- Neurointerventional Devices

- Neurosurgical Navigation Systems

- Cerebral Spinal Fluid (CSF) Management Devices

- Others

By Application

- Spinal Cord Stimulation

- Deep Brain Stimulation

- Neuroendoscopy

By End User

- Hospitals

- Ambulatory Surgical Centers

- Others

By Region

- North America

- U.S.

- Canada

- Mexico

- Europe

- Germany

- France

- UK

- Italy

- Spain

- Rest of Europe

- Asia-Pacific

- Japan

- China

- Australia

- India

- South Korea

- Rest of Asia-Pacific

- LAMEA

- Brazil

- Saudi Arabia

- South Africa

- Rest of LAMEA

- Key Market Players

- Abbott Laboratories

- Ackermann Instrumente GmbH

- Adeor Medical AG

- B. Braun Melsungen AG

- Biotronik SE & Co. KG

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- Boston Scientific Corporation
- Johnson and Johnson
- Integra Lifesciences Corporation.
- Medtronic plc
- Stryker Corporation.

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