

Deep Brain Stimulation Market Report by Stimulation Type (Subthalamic DBS, Globus Pallidus DBS, Thalamic DBS, Pedunculo pontine Nucleus DBS), Product (Single Channel Deep Brain Stimulator, Dual Channel Deep Brain Stimulator), Application (Parkinson's Disease (PD), Epilepsy, Dystonia, Obsessive Compulsive Disorder (OCD), and Others), End-User (Hospitals, Ambulatory Surgical Centers, Neurological Centers, and Others), and Region 2024-2032

<https://marketpublishers.com/r/D159E09F8937EN.html>

Date: March 2024

Pages: 135

Price: US\$ 3,899.00 (Single User License)

ID: D159E09F8937EN

Abstracts

The global deep brain stimulation market size reached US\$ 1.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 2.6 Billion by 2032, exhibiting a growth rate (CAGR) of 8.3% during 2024-2032. The rising occurrence of various motor and neurological disorders among the masses, growing acceptance of minimally invasive (MI) surgical methods, and construction of hospitals, nursing homes, and clinics across the globe represent some of the key factors driving the market.

Deep brain stimulation (DBS) refers to the surgical procedure that aids in treating various neurological and movement-associated disorders, such as Parkinson's disease, epilepsy, dystonia, and obsessive-compulsive disorder (OCD). It involves implanting electrodes within certain areas of the brain to produce electrical impulses for regulating abnormal impulses in the brain. It relies on a pacemaker-like device, called a programmable generator, placed under the skin of the upper chest of the patient along with a wire that connects the device to the electrodes. It blocks the formation of

neurological dysfunction, causing impulses, and aids the brain in functioning effectively. It helps patients handle tremors, stiffness, and dyskinesias without fully relying on high doses of medications. It is employed in the treatment of Tourette syndrome, Huntington's disease, chorea, cluster headaches, and chronic pain. It is also utilized when medications are no longer effective for patients in maintaining a good quality of life. Furthermore, as DBS directly alters brain activity in a controlled manner, it is recommended by neurosurgeons, neurologists, neuropsychologists, and psychiatrists around the world.

Deep Brain Stimulation Market Trends:

At present, the increasing demand for DBS due to the rising occurrence of various motor and neurological disorders among the masses represents one of the primary factors influencing the market positively. Besides this, the growing acceptance of minimally invasive (MI) surgical methods to reduce post-operative scarring, minimize the cost of medical bills, and decrease the duration of hospital stays is offering a favorable market outlook. Additionally, there is an increase in the construction of hospitals, nursing homes, and clinics to provide quality healthcare services to patients across the globe. This, along with the rising number of advancements made in improving the treatment and diagnosis of various neurological and psychological disorders, is propelling the growth of the market. Apart from this, the increasing awareness about the benefits of DBS and early detection of neurological complications, along with the rising geriatric population worldwide, is supporting the growth of the market. In addition, the rising occurrence of various lifestyle disorders and hypertension-induced depression among working individuals is strengthening the market growth. Moreover, key market players are incorporating artificial intelligence (AI) and the internet of things (IoT) in DBS systems to create robot-assisted implantations and multitarget stimulations.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global deep brain stimulation market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on stimulation type, product, application, and end-user.

Stimulation Type Insights:

Subthalamic DBS

Globus Pallidus DBS
Thalamic DBS
Pedunculo pontine Nucleus DBS

The report has provided a detailed breakup and analysis of the deep brain stimulation market based on the stimulation type. This includes subthalamic DBS, globus pallidus DBS, thalamic DBS, and pedunculo pontine nucleus DBS.

Product Insights:

Single Channel Deep Brain Stimulator
Dual Channel Deep Brain Stimulator

A detailed breakup and analysis of the deep brain stimulation market based on the product has also been provided in the report. This includes single channel deep brain stimulator and dual channel deep brain stimulator. According to the report, dual channel deep brain stimulator accounted for the largest market share.

Application Insights:

Parkinson's Disease (PD)
Epilepsy
Dystonia
Obsessive Compulsive Disorder (OCD)
Others

A detailed breakup and analysis of the deep brain stimulation market based on the application has also been provided in the report. This includes Parkinson's disease (PD), epilepsy, dystonia, obsessive compulsive disorder (OCD), and others. According to the report, Parkinson's disease (PD) accounted for the largest market share.

End-User Insights:

Hospitals
Ambulatory Surgical Centers
Neurological Centers
Others

A detailed breakup and analysis of the deep brain stimulation market based on the end-

user has also been provided in the report. This includes hospitals, ambulatory surgical centers, neurological centers, and others. According to the report, hospitals accounted for the largest market share.

Regional Insights:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

The report has also provided a comprehensive analysis of all the major regional markets, which include North America, Europe, Asia Pacific, the Middle East and Africa, and Latin America. According to the report, North America was the largest market for deep brain stimulation. Some of the factors driving the North America deep brain stimulation market included the growing investment in the medical sector, rising construction of healthcare facilities, increasing occurrence of various neurological conditions among the masses, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global deep brain stimulation market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Boston Scientific, Medtronic, St. Jude Medical, Aleva Neurotherapeutics, Beijing Pins Medical, NeuroPace, Neuro Sigma, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global deep brain stimulation market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global deep brain stimulation market?

What is the impact of each driver, restraint, and opportunity on the global deep brain

stimulation market?

What are the key regional markets?

Which countries represent the most attractive deep brain stimulation market?

What is the breakup of the market based on the stimulation type?

Which is the most attractive stimulation type in the deep brain stimulation market?

What is the breakup of the market based on the product?

Which is the most attractive product in the deep brain stimulation market?

What is the breakup of the market based on the application?

Which is the most attractive application in the deep brain stimulation market?

What is the breakup of the market based on the end-user?

Which is the most attractive end-user in the deep brain stimulation market?

What is the competitive structure of the global deep brain stimulation market?

Who are the key players/companies in the global deep brain stimulation market?

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