

Nerve Repair and Regeneration Market Report by Surgery (Direct Nerve Repair/Neurorrhaphy, Nerve Grafting, Stem Cell Therapy, Neurostimulation and Neuromodulation Surgeries), Product (Biomaterial, Neurostimulation and Neuromodulation Devices), End User (Hospitals and Clinics, Ambulatory Surgical Centers), and Region 2023-2028

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Abstracts

The global nerve repair and regeneration market size reached US\$ 7.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 14.8 Billion by 2028, exhibiting a growth rate (CAGR) of 11.51% during 2022-2028.

Nerve repair and regeneration (NRaR) refers to a neural tissue engineering process used for the treatment of a nerve injury. It facilitates the regrowth of new neurons, glial cells, myelin, axons and synapses. It also aids in restoring the normal functioning of the nerve after nerve damage, which is usually caused by pressure, blunt trauma, stretching or cutting of a nerve. NRaR involves the use of biomaterials and various neurostimulation and neuromodulation devices. Biomaterials include nerve conduits, nerve protectors, nerve wraps, and nerve connectors. They are used for direct neuropathy, nerve grafting, stem cell therapy and transcutaneous, transcranial magnetic, spinal cord, deep brain, sacral nerve and vagus nerve stimulation.

Nerve Repair and Regeneration Market Trends:

The increasing prevalence of chronic neurological disorders, such as Alzheimer's, Parkinson's disease, amyotrophic lateral sclerosis, multiple sclerosis and multiple system atrophy, is among the key factors driving the market growth. Moreover, the rising geriatric population, which is more susceptible to such ailments, and escalating

instances of nerve injuries are providing a thrust to the growth of the market. Hospitals, ambulatory surgical centers (ASCs) and other healthcare institutes across the globe are providing novel NRaR solutions for timely diagnosis and treatment of neurological disorders. Additionally, various technological advancements in stem cell therapy and the development of innovative neuromodulation devices, are acting as other growth-inducing factors. Endogenous stem cells are being widely used in neurogenesis, neural repair and exogenous neural stem cell transplantation for effective repair and replacement of damaged tissues in the central nervous system. Other factors, including rising healthcare expenditures of the masses, along with the significant improvements in the medical infrastructure, especially in the developing economies, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global nerve repair and regeneration market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on surgery, product and end user.

Breakup by Surgery:

- Direct Nerve Repair/Neurorrhaphy
- Nerve Grafting
- Stem Cell Therapy
- Neurostimulation and Neuromodulation Surgeries

Breakup by Product:

- Biomaterial
- Neurostimulation and Neuromodulation Devices
- Spinal Cord Stimulation Devices
- Deep Brain Stimulation Devices
- Sacral Nerve Stimulation Devices
- Vagus Nerve Stimulation Devices
- Gastric Electric Stimulation Devices

Breakup by End User:

- Hospitals and Clinics
- Ambulatory Surgical Centers

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Abbott Laboratories, Alafair Biosciences Inc., AxoGen Inc., Baxter International Inc., Boston Scientific Corporation, Collagen Matrix Inc., Integra Lifesciences Corporation, Medtronic plc, Polyganics BV, Soterix Medical Inc., Stryker Corporation and Synapse Biomedical Inc.

Key Questions Answered in This Report

1. What was the size of the global nerve repair and regeneration market in 2022?
2. What is the expected growth rate of the global nerve repair and regeneration market during 2023-2028?

3. What are the key factors driving the global nerve repair and regeneration market?
4. What has been the impact of COVID-19 on the global nerve repair and regeneration market?
5. What is the breakup of the global nerve repair and regeneration market based on the surgery?
6. What is the breakup of the global nerve repair and regeneration market based on the product?
7. What is the breakup of the global nerve repair and regeneration market based on the end user?
8. What are the key regions in the global nerve repair and regeneration market?
9. Who are the key players/companies in the global nerve repair and regeneration market?

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