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Neurorehabilitation Devices Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type (Neurorobotic System, Brain Computer Interface, Non-invasive Stimulators, and Wearable Devices), Application (Stroke, Traumatic Brain Injury, Spinal Cord Injury, Parkinson's Disease, Cerebral Palsy, and Others), End User (Rehabilitation Centers, Hospitals and Clinics, and Home Care), and Geography

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Abstracts

The neurorehabilitation devices market size is expected to grow from US$ 2.72 billion in 2023 to US$ 7.08 billion by 2031; it is projected to register a CAGR of 12.7% during 2023-2031. The increasing prevalence of neurological diseases worldwide and the growing number of clinical studies on neurorehabilitation devices are noteworthy factors contributing to the expansion of the neurorehabilitation devices market size. However, the high cost of neurorehabilitation devices hinders the neurorehabilitation devices market growth.

Technological advancements in neurorehabilitation devices are improving patient outcomes, safety, and the overall efficiency of neurological disease management. Neurolutions Inc., a Washington University startup company, developed a device called the IpsiHand Upper Extremity Rehabilitation System, which helps people disabled by stroke regain control over their arm and hand function by using their minds. In April 2021, the company received market authorization from the Food and Drug

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Administration (FDA) for its IpsiHand Upper Extremity Rehabilitation System, which leverages brain-computer interface (BCI) technology licensed by the university. In April 2024, India-based K Physio and Rehab Clinic announced the launch of the ground-breaking Advanced Exoskeletal Neuro Device, revolutionizing neurorehabilitation. The device provides faster recovery to fully and partially paralyzed patients. In February 2023, MindMaze announced the US and EU launch of Izar, a “first-of-its-kind” US FDA-listed and CE-marked smart device for patients with impairment in hand motor function. The device is one of the most effective hand dexterity and strength treatments used in a wide range of neurological conditions. Such technological developments are likely to bring new trends in the neurorehabilitation devices market in the coming years.

Application -Based Insights

Based on application, the neurorehabilitation devices market is segmented into stroke, traumatic brain injury, spinal cord injury, Parkinson’s disease, cerebral palsy, and others. The stroke segment held the largest neurorehabilitation devices market share in 2023. Stroke remains one of the leading causes of long-term disability worldwide, significantly impacting individuals and their families. As the global population ages and lifestyle diseases increase, the incidence of stroke is projected to rise, highlighting the critical need for effective rehabilitation solutions. The surge in cases of chronic disorders such as hypertension and diabetes are a major contributing factor to the increasing prevalence of stroke. According to the World Stroke Organization 2024 report, globally, 12.2 million people experience stroke every year, leading to 6.5 million deaths, and there were more than 100 million people in the world who experienced stroke in 2023. Therefore, the growing prevalence of stroke, owing to increasing lifestyle diseases, is expected to create a demand for neurorehabilitation to support recovery and improve the quality of life.

The World Health Organization, Global Stroke Fact Sheet, and Parkinson's Foundation are among the primary and secondary sources referred to while preparing the neurorehabilitation devices market report.

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