

**Annual Congress on Advancements in Neurology, Neuroscience and Pediatric Neurology  
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Market research report presents an in depth analysis of the global neurophysiology needles and electrodes market by application (EEG, EMG, TENS, and others), by product type (needle electrodes and surface electrodes), and by geography. Leading vendors during this market are Ambu A/S, Natus Medical, and RhythmLink. neurophysiology needles and electrodes market will grow at a modest CAGR of on the brink of 4% by 2020. The rising preference for disposable electrodes may be a major factor that's expected to drive the demand for needles and electrodes over subsequent few years. Many physicians are now switching over to disposable electrodes to assist patients avoid hospital-acquired infections, which are caused thanks to cross-contamination. Since disposable electrodes lower the danger of allergies caused by chemicals and skin preparation methods, their demand among the top users will increase significantly over subsequent few years. This increase within the preference for disposable electrodes will foster the prospects for growth during this market until 2020.

According to Technavio's analysts, a serious trend which will spur growth during this market is that the development of dry electrodes. at the present, it's been observed that the majority diagnostic devices that are wont to diagnose neurological issues utilize wet gel electrodes. However, to counter issues like drying gel, degraded signals, and skin irritation, vendors have started developing dry electrodes. Dry electrodes are made from flexible polymer and other materials, which do the work of monitoring and recording EMG and EEG signals more accurately than wet gel electrodes. as an example, Cognionics has de-

veloped a dry electrode system that gives better results than the traditional electrodes. Consequently, it are often estimated that the power of those systems to supply better results than the wet gel electrodes will cause its increased adoption over subsequent four years.

This market is very consolidated and is characterized by the presence of a couple of key vendors. With newer vendors of small and medium-size entering the market, the main vendors are losing market shares as they're unable to supply products at low prices. To survive during this market, the vendors are implementing different strategies just like the development of newer products to realize market shares. Other prominent vendors during this market include Acertys Healthcare, Biomed Products, Bionen Medical Devices, Blacrock Microsystems, Cognionics, Dymedix Diagnostics, g.tec medical engineering, Hydro-Dot, Jari Electrode Supply, NR Sign, Optima Medical, R&D Medical Electrodes, Technomed Europe, and Unimed Electrode Supplies.

Neurology today holds an edge within the various medical centers of the planet which varies from complete nonexistence to high and sophisticated development. Invasion of the sector of neurology by differing types of clinicians, the rapid development of psychiatry, the late appearance of neurosurgery and therefore the important recent advances in neurophysiology and neuro-anatomy, all help to account for this variability and demand a reconsideration of the scope of neurology. A survey of neurology, neurosurgery and neuropathology as they're to be found in various centers of learning today supports this view. From the time that neurology first emerged as

a specialty, it's suffered a progressive reduction in scope.

The global neuroscience market size was valued at USD 28.42 billion in 2016 and is predicted to grow at a CAGR of three .1% over the forecast period. High influencing factors, like on-going brain mapping research and investigation projects, neuroscience-based initiatives by government bodies and technological advances in tools and algorithms that are implemented in neuroscience space are expected to propel the market growth.

North America captured the most important share in 2016 as regional market. Key factors that are attributed to the present large share are presence of a considerable number of neuroscience-based research entities, funding by government & other organizations, and availability of well-developed healthcare systems alongside rising prevalence of neurological disorders within the region. With compare to China and Japan, Asia Pacific is predicted to emerge because the fastest growing regional market due to the due to constantly improving healthcare system and presence of serious target population within the region. The global Neuro technology Market is predicted to succeed in USD 100 million by 2023 growing at

a 12% CAGR over the forecast period 2017-2023. the necessity for minimally invasive, more accurate and multiple neurons recording systems is additionally expected to drive research and development of kit and software used for neuro-analytical experiments. This, in turn, is predicted to strengthen the general product portfolio available within the market and boost revenues throughout the forecast period.

Moreover, considerable government funding for the continuation of such research is predicted to stay the market stable and over the forecast period it's expected that novel development resultant of ongoing R&D will further the expansion of this market. additionally, the increase in patented research within the field of optogenetics and two-photon microscopy for better visualization of neuronal circuits is additionally attributive towards the anticipated growth of this sector.

However, ethical regulations concerning the utilization of animals in clinical studies is predicted to impede the market growth to a particular extent by limiting the supply of animal models for neuroscience research studies.