

# Neurodiagnostics Market Share, Size, Growth Global Growth Prospects, Trends, Industry Analysis 2031 | EMS Biomedical

*neurodiagnostics market is estimated to be valued at USD 8.66 Bn in 2024 and is expected to reach USD 14.91 Bn by 2031.*

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/EINPresswire.com/ -- Market Overview:

Neurodiagnostics involves the diagnosis of various neurological disorders and conditions using techniques such as imaging, invasive and non-invasive devices. Neurological conditions such as Alzheimer's disease, Parkinson's disease, epilepsy and multiple sclerosis affect millions worldwide.

## Market Dynamics:

The neurodiagnostics market is expected to exhibit significant growth over the forecast period owing to the rising prevalence of neurological disorders and the growing geriatric population which is more prone to such conditions. According to the World Health Organization, neurological disorders account for 11% of the global burden of disease and are the leading cause of disability worldwide. The increasing healthcare expenditure in emerging economies is also fueling the adoption of advanced neurodiagnostic technologies. Moreover, ongoing research & development activities for novel diagnostics and personalized medicine are further expected to boost market growth during the forecast period. However, the high cost of neurodiagnostics devices remains a major challenge for widespread adoption in low-income countries.

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Moreover, it will also include the opportunities available in micro markets for stakeholders to invest, a detailed analysis of the competitive landscape, and product services of key players.



## Analysis of Neurodiagnostics companies, key tactics followed by Leading Key Players:

- Koninklijke Philips N.V
- Siemens Healthcare GmbH
- F. Hoffmann-La Roche Ltd
- FUJIFILM Holdings Corporation
- Bio-Rad Laboratories Inc.
- Advanced Brain Monitoring Inc.
- Nihon Kohden Corporation
- Mitsar Co. LTD.
- EMS Biomedical
- Mennen Medical
- Natus Medical Incorporated
- Medicaid Systems
- Fujirebio
- FONAR Corp
- ANT Neuro
- NEUROLITE AG
- Atlantic Health System

### Segment Details Analysis

By Product Type: Electroencephalogram (EEG) Systems, Magnetic Resonance Imaging (MRI) Systems, Ultrasound Imaging Systems, Computed Tomography (CT) Scanner, Reagents & Consumables, and Others

By Therapeutic Area: Neurodegenerative Diseases, Sleep Disorders, Stroke, Epilepsy, and Others

By End User: Hospitals, Diagnostic Centers, Ambulatory Care Centers, and Others

Increasing prevalence of neurodegenerative and neurological diseases driving demand for advanced neurodiagnostic technologies

The rising prevalence of neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, epilepsy, and other neurological diseases is one of the major drivers augmenting the growth of the neurodiagnostics market. As per estimates, over 50 million people worldwide are living with dementia, with around 10 million new cases every year. Neurological disorders account for over 10% of the global disease burden. The economic burden associated with these diseases is immense, both in terms of direct medical costs as well as indirect costs related to long-term care and reduced productivity. This high disease prevalence has increased demand for improved diagnostic methods to enable timely diagnosis and improve patient outcomes. Advanced neurodiagnostic methods offer non-invasive means to accurately diagnose these

complex conditions at an early stage, enabling prompt treatment interventions. Technological advancements introducing high-resolution imaging techniques, neurostimulation testing devices, and biofluid biomarker assays are supporting more effective diagnosis and monitoring of disease progression.

#### Inadequate reimbursement policies restraining market growth

Despite technological advancements, inadequate or lack of reimbursement policies for neurodiagnostic procedures hampers wider adoption and limits market growth. Neurodiagnostic tests involve expensive equipment, specialized neurophysiologists or neurologists, prolonged testing procedures, and analysis of complex imaging scans and biomarker assays. The high costs involved pose significant barriers for patients in terms of out-of-pocket expenses. In many countries, private health insurance coverage for neurodiagnostic tests is limited. Public health insurers also have restrictive reimbursement policies, approving payments only for a small set of approved tests. This leaves doctors and care facilities with limited options for carrying out a comprehensive test battery for complex neurological cases. Limited coverage or absence of payment mechanisms discourages practitioners from investing in expensive neurodiagnostic aids. It also restricts patient access to newer technologies that could aid accurate diagnosis. Robust reimbursement frameworks recognizing the specialized and resource-intensive nature of neurodiagnostics are needed to strengthen market momentum.

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#### Advent of portable neurodiagnostic devices opening new growth avenues

The development of portable, handheld point-of-care neurodiagnostic systems presents significant opportunities for market expansion. Traditionally, electrophysiological tests and neuroimaging modalities require specialized facilities and stationary setups. However, the advent of portable EEG, EMG, and eye-tracking devices integrated with AI platforms now enable neurologic assessments to be conducted even in remote locations. Portable systems are user-friendly, minimally invasive and provide quick results at an affordable cost. Their usability extends neurodiagnostic access to rural populations, developing countries, and community healthcare settings beyond hospitals. They are enabling decentralized healthcare models supporting early-stage diagnosis, timely intervention, and ongoing remote patient monitoring. The COVID-19 pandemic has further highlighted the pressing need for decentralized neurodiagnostic options. Portable devices equipped with telehealth capabilities can help overcome barriers to access created by hospital restrictions or lack of specialized clinics. Their ability to support decentralized care models has immense commercial potential for market players.

#### Emergence of AI-enabled neurodiagnostic systems driving trend towards precision medicine

The integration of artificial intelligence and machine learning capabilities in neurodiagnostic technologies is a key trend gaining immense traction in the market. Advanced algorithms can analyze patterns in complex datasets such as medical images, signals obtained from multiple neurophysiological tests, and biomarker profiles. AI assistance is improving the accuracy of the diagnostic process. It helps radiologists and neurologists detect subtle abnormalities, arrive at differential diagnoses, and track disease progression more objectively. AI is also reducing diagnostic turnaround times and supporting earlier detection. With growing datasets, algorithms are becoming more robust over time in self-learning capabilities. Their use enables a shift towards personalized, precision medicine approaches for neurological disorders. AI-powered systems can take into account individual patient histories, genetic profiles, lifestyle factors and response to therapies to derive highly customized treatment and management protocols. This personalized dimension has potential to optimize patient outcomes. AI is therefore rapidly becoming instrumental for neurodiagnostics, improving quality of care, disease monitoring and therapeutic development. Its adoption will continue reshaping market trends in the coming years.

The Study Objectives are:

A comprehensive insight into key players operating in the Neurodiagnostics Market and their corresponding data.

It includes product portfolio, annual revenue, expenditure on research and development, geographical presence, key developments in recent years, and growth strategies.

Regional analysis, which includes insight into the dominant market and corresponding market share.

It also includes various socio-economic factors affecting the evolution of the market in the region.

The report offers a comprehensive insight into different individuals from value chains such as raw materials suppliers, distributors, and stockholders.

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Key Questions Answered:

What is the market size and CAGR of the Neurodiagnostics Market during the forecast period?  
How is the growing demand impacting the growth of Neurodiagnostics Market shares?  
What is the growing demand of the Market during the forecast period?  
Who are the leading vendors in the market and what are their market shares?  
What is the impact of the COVID-19 pandemic on the APAC Neurodiagnostics Market?

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