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Global Guillain-Barre Syndrome Diagnostics Market Size Study, By Test (Lumbar Puncture, Nerve Conduction, Electromyography, Others), By End-use (Hospitals & Clinics, Diagnostic Laboratories, Others), and Regional Forecasts 2022-2032

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Abstracts

The global Guillain-Barre Syndrome (GBS) diagnostics market was valued at approximately USD 180.22 million in 2023 and is anticipated to expand at a CAGR of 2.8% during the forecast period from 2024 to 2032. This growth is primarily driven by the increasing incidence of Guillain-Barre Syndrome, advancements in diagnostic techniques, and heightened awareness of neurological disorders among healthcare professionals and the general population. With early diagnosis playing a crucial role in patient outcomes, demand for innovative diagnostic methods, including nerve conduction studies (NCS), electromyography (EMG), and biomarker-based testing, is on the rise.

Guillain-Barre Syndrome is a rare but severe autoimmune disorder in which the body's immune system attacks the peripheral nervous system, leading to muscle weakness, paralysis, and, in some cases, respiratory failure. It affects individuals across all age groups, but the highest prevalence is observed in people aged 30 to 50 years. According to the Centers for Disease Control and Prevention (CDC), approximately 3,000 to 6,000 cases of GBS are reported annually in the U.S. alone. Recently, in January 2025, a cluster of 67 GBS cases was identified in Pune, India, highlighting the need for more effective diagnostic tools. Given the link between GBS and viral infections, such as COVID-19 and Zika virus, early and accurate diagnosis is critical in managing patient care and treatment.

The aging global population is also a significant driver for the market. According to the

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World Health Organization (WHO), by 2030, one in six individuals worldwide will be over the age of 60, making them more vulnerable to autoimmune disorders, including GBS. The rising prevalence of age-related neurodegenerative diseases further underscores the urgent need for improved diagnostic methodologies. Additionally, emerging AI-driven diagnostic tools are enhancing the speed and accuracy of GBS detection, contributing to the market's overall growth.

North America currently holds the largest market share, driven by strong healthcare infrastructure, higher awareness levels, and rapid adoption of advanced diagnostic technologies. In the United States, the market is expanding due to government initiatives supporting rare disease research and investments in precision diagnostics. Meanwhile, Asia Pacific is anticipated to witness the highest growth rate, fueled by rising healthcare expenditures, increasing disease prevalence, and expanding diagnostic capabilities in countries like China, Japan, and India. The European market is also witnessing significant growth, supported by stringent regulatory frameworks and the adoption of cutting-edge medical diagnostics.

Major Market Players Included in This Report Are:

Cadwell Industries, Inc.

Natus Medical Incorporated

Nihon Kohden Corporation

Medtronic plc

Bionen Medical Devices

Deymed Diagnostic

Neurosoft

Alpine Biomed

EMS Biomedical

Rochester Electro-Medical, Inc.

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Compumedics Limited

Medica Corporation

Micromed Group

Neurovirtual

Noraxon USA Inc.

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Test:

Lumbar Puncture

Nerve Conduction Studies

Electromyography

Others

By End-use:

Hospitals & Clinics

Diagnostic Laboratories

Others

By Region:

North America

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- Canada
- Mexico

Europe

- UK
- Germany
- France
- Italy
- Spain
- Denmark
- Sweden
- Norway
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- Australia
- South Korea
- Thailand

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- Rest of Asia Pacific

Latin America

- Brazil
- Argentina
- Rest of Latin America

Middle East & Africa

- Saudi Arabia
- UAE
- South Africa
- Rest of Middle East & Africa

Years Considered for the Study Are as Follows:

- Historical Year: 2022
- Base Year: 2023
- Forecast Period: 2024 to 2032

Key Takeaways:

- Market estimates & forecasts for 10 years (2022-2032)
- Annualized revenues and regional-level analysis for each market segment

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Country-level analysis across key geographies

Competitive landscape insights, including market shares of key players

Strategic recommendations for emerging market entrants and established players

Analysis of disruptive technologies shaping the market

Demand-side and supply-side factors influencing market dynamics

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