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Global Medical Batteries Market Size study, by Battery Type (Lithium-Ion Batteries, Nickel-Metal Hydride (NiMH) Batteries, Alkaline Batteries, Zinc-Air Batteries, Others), Usage (Implantable Medical Devices, Non-implantable Medical Devices, Portable, Wearable Medical Devices), End User (Hospitals, Home Healthcare Settings, Ambulatory Surgical Centers, Research Institutes), and Regional Forecasts 2022-2032

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Abstracts

The Global Medical Batteries Market is valued at USD 1.98 billion in 2024 and is anticipated to grow with a healthy growth rate of more than 6.0% over the forecast period 2025-2034. Medical batteries play an essential role in powering advanced medical devices used for monitoring, diagnosing, and treating various health conditions. The increasing adoption of implantable and portable medical devices such as pacemakers, defibrillators, and insulin pumps has significantly driven the demand for robust and efficient power sources. Furthermore, rapid advancements in battery technology, particularly in the development of lithium-ion batteries, have opened new avenues for improved energy density and extended device lifespan.

The rising focus on home healthcare solutions and remote patient monitoring has further accentuated the demand for compact, lightweight, and reliable batteries. Rechargeable batteries, particularly lithium-ion variants, are experiencing robust demand due to their high energy efficiency and long cycle life. The growing prevalence of chronic diseases coupled with the aging population worldwide also serves as a significant impetus for the expansion of the medical batteries market.

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Globally, the lithium-ion batteries segment dominates the market, attributed to their widespread application in portable and wearable medical devices. Conversely, zinc-air batteries are witnessing rapid growth, especially in applications requiring low-power solutions like hearing aids. In terms of usage, non-implantable devices remain the largest segment, although advancements in miniaturized and long-lasting battery technologies are propelling the growth of implantable device applications.

Regionally, North America leads the global market owing to its sophisticated healthcare infrastructure, high adoption rates of innovative medical technologies, and extensive R&D activities. Meanwhile, the Asia-Pacific region is projected to experience the fastest growth during the forecast period due to increased healthcare investments, expansion of medical device manufacturing, and the growing demand for advanced healthcare solutions across emerging economies.

Major market players included in this report are:

1. Panasonic Corporation

2. LG Chem Ltd.

3. Duracell Inc.

4. Energizer Holdings, Inc.

5. VARTA AG

6. Saft Groupe S.A.

7. Ultralife Corporation

8. Tadiran Batteries

9. Boston Scientific Corporation

10. Medtronic plc

11. GE Healthcare

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12. Abbott Laboratories

13. Koninklijke Philips N.V.

14. Biotronik SE & Co. KG

15. Smiths Medical

The detailed segments and sub-segment of the market are explained below:

By Battery Type:

- Lithium-Ion Batteries
- Nickel-Metal Hydride (NiMH) Batteries
- Alkaline Batteries
- Zinc-Air Batteries
- Others

By Usage:

- Implantable Medical Devices
- Non-implantable Medical Devices
- Portable
- Wearable Medical Devices

By End User:

- Hospitals
- Home Healthcare Settings

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Ambulatory Surgical Centers

Research Institutes

By Region:

North America: U.S., Canada

Europe: UK, Germany, France, Spain, Italy, ROE

Asia Pacific: China, India, Japan, Australia, South Korea, RoAPAC

Latin America: Brazil, Mexico, Rest of Latin America

Middle East & Africa: Saudi Arabia, South Africa, RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Competitive landscape with information on major players in the market.

Recommendations on future market approach and key business strategies.

Demand-side and supply-side market dynamics analysis.

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