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Hyperthermia Devices Market By Product (Microwave Hyperthermia Devices, Ultrasound Hyperthermia Devices) , By Application (Breast Cancer, Prostate Cancer, Cervical Cancer, Others) By End User (Hospitals, Cancer treatment centers, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The hyperthermia devices market was valued at $168.2 million in 2023, and is projected to reach $290.1 million by 2033, growing at a CAGR of 5.6% from 2024 to 2033.

Hyperthermia devices are medical instruments used to raise the temperature of body tissues for therapeutic purposes, often as an adjunct treatment for cancer. By applying controlled heat to specific areas of the body, these devices enhance the efficacy of treatments like chemotherapy and radiation therapy by improving blood flow and increasing the sensitivity of cancer cells to treatment.

The growth of the global hyperthermia devices market is driven by global increase in cancer cases has driven demand for innovative treatment modalities, including hyperthermia devices, which improve the efficacy of traditional cancer therapies like chemotherapy and radiation. According to a 2022 study published by the World Health Organization, cancer is a leading cause of death worldwide, which accounted for nearly 10 million deaths in 2020. Thus, with patients increasingly seeking less invasive cancer treatments, hyperthermia devices have gained popularity due to their ability to target localized tissues with minimal side effects compared to conventional approaches. In addition, increase in awareness about the benefits of hyperthermia therapy, including its role in enhancing treatment outcomes and reducing side effects, has led to higher

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acceptance in clinical practice. Moreover, rise in awareness about the benefits of hyperthermia therapy, including its role in enhancing treatment outcomes and reducing side effects, has led to higher acceptance in clinical practice, thus fostering the market growth. Furthermore, surge in geriatric population acts as the key driving force of the global market. This is attributed to the fact that aging is associated with a decline in immune system efficiency, including reduced surveillance for abnormal or cancerous cells. This has created a significant demand for advanced therapeutic options, including hyperthermia devices. A 2024 study published by the World Health Organization revealed that the number of aged individuals will increase from 1 billion in 2020 to 1.4 billion by 2030. Moreover, the number of individuals aging 80 years and older is estimated to reach 426 million by 2050. The growth of specialized oncology clinics and hospitals worldwide has further facilitated the adoption of advanced cancer treatment modalities, such as hyperthermia therapy, to improve patient outcomes. Despite its benefits, hyperthermia therapy remains underutilized due to limited awareness and training among healthcare providers about its effectiveness and integration into cancer treatment protocols. The cost of hyperthermia treatment, including the devices and associated procedures, can be prohibitive for many patients and healthcare systems, particularly in low- and middle-income regions, further restraining the market growth. On the contrary, Technological innovations, such as improved thermal delivery systems, real-time temperature monitoring, and non-invasive devices, have enhanced the safety, precision, and effectiveness of hyperthermia treatments. Such developments are expected to offer remunerative opportunities for the expansion of the global market during the forecast period.

The global hyperthermia devices market analysis is segmented into product, application, end user, and region. On the basis of product, the market is categorized into microwave hyperthermia devices and ultrasound hyperthermia devices. Depending on application, it is segregated into breast cancer, prostate cancer, cervical cancer, and others. By end user, it is fragmented into hospitals, cancer treatment centers, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product, the ultrasound hyperthermia devices segment is expected to dominate the market from 2024 to 2033.

Depending on application, the prostate cancer segment is anticipated to exhibit the highest growth throughout the forecast period.

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By end user, the hospitals segment is projected to grow at a notable pace during the forecast period.

Region wise, North America held the largest market share, in terms of revenue, in 2023, and is likely to dominate the market during the forecast period.

Competition Analysis

The major players operating in the global hyperthermia devices Market include Pyrexar Medical, Oncotherm, Celsius42, Andromedic, Pearson, Nanjing Greathope, Shanghai Huayuan, MagForce AG, Nanopores, and Sensius. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

SWOT Analysis

Key Market Segments

By Product

Microwave Hyperthermia Devices

Ultrasound Hyperthermia Devices

By Application

Breast Cancer

Prostate Cancer

Cervical Cancer

Others

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By End User

- Hospitals
- Cancer treatment centers
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- France
- Germany
- Italy
- Spain
- UK
- Rest of Europe
- Asia-Pacific
- China

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