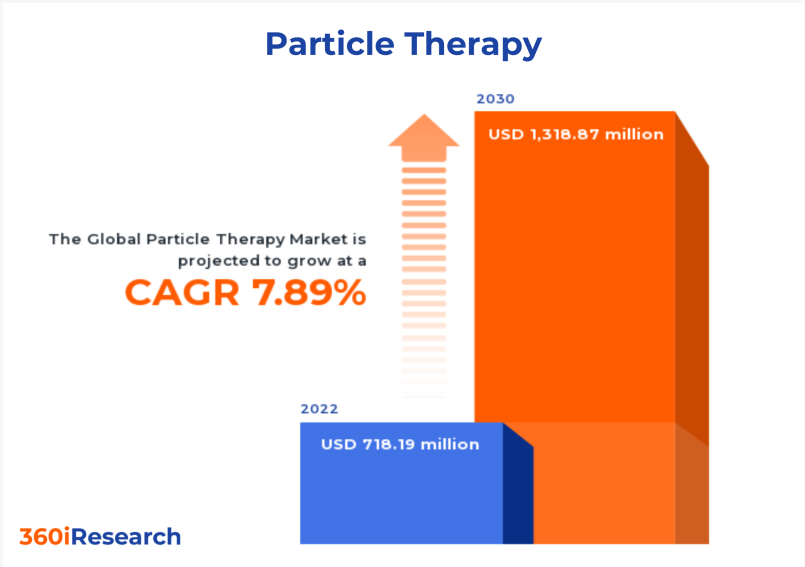
Particle Therapy Market worth $1,318.87 million by 2030, growing at a CAGR of 7.89% - Exclusive Report by 360iResearch

The Global Particle Therapy Market to grow from USD 718.19 million in 2022 to USD 1,318.87 million by 2030, at a CAGR of 7.89%.



Particle Therapy Market- Exclusive Report by 360iResearch

PUNE, MAHARASHTRA, INDIA , December 8, 2023 /EINPresswire.com/ -- The "Particle Therapy Market by Therapy Type (Heavy Ion Therapy, Proton Therapy), Component (Product, Service), Configuration, Cancer Type, End-User - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Particle Therapy Market to grow from USD 718.19 million in 2022 to USD 1,318.87 million by 2030, at a CAGR of 7.89%.

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The particle therapy forms a specific segment of the broader therapeutical technology. Primarily, it focuses on the global commercialization, distribution, and application of particle therapy technologies. Particle therapy utilizes charged and uncharged particles, such as protons and neutrons, within a controlled environment to target and eliminate cancer cells inside a patient's body. The effectiveness of this therapy in ensuring precision mainly drives market demand and growth. The increasing need for advanced therapies in cancer treatment and the rising adoption of particle therapy in clinical trials, fast, non-invasive, and painless procedures significantly contribute to driving this market growth. In contrast, limited insurance coverage for particle therapy and risk associated with particle therapy radiation exposure limits their utilization and penetrates the market growth. However, several vendors are developing more advanced and compact particle therapy systems and focusing on enhancing precision and minimizing potential

side effects. Moreover, ongoing proton therapy research programs and technological advancements in charged-particle therapy are creating a myriad of opportunities for particle therapy expansion.

Cancer Type: Expanding usage of particle therapy for head & neck cancer owing to reduced risk on healthy tissue

Particle therapy, offering highly focused radiation, has brought about remarkable results in breast cancer management, especially for patients with recurring or aggressive forms of the disease. Particle therapy for head & neck cancer shows promising results due to the anatomical complexity of this region. The precise and high-dosage radiation from particle therapy minimizes the risk of excess radiation in healthy tissues around the tumor. Lung cancer, notorious for its resistance to traditional radiation therapy, has seen promising treatment outcomes through particle therapy. Particle therapy is considerably beneficial in treating pediatric cancers, reducing the long-term side effects usually associated with traditional radiation treatments. Prostate cancer treatment has been dramatically enhanced by particle therapy, given the highly effective and precise radiation techniques. In comparison, particle therapy has emerged as a new dawn in the field of head & neck cancer treatment, offering hope to patients battling various forms of the disease.

Configuration: Potential of a multi-room system for treating a larger number of patients concurrently

A multi-room system in particle therapy incorporates multiple treatment rooms, thus allowing more patients to receive treatment concurrently. These systems are immensely beneficial for large healthcare establishments, owing to the faster patient flow, the ability to treat complex cases, and the efficiency in maximizing the usage of particle accelerator facilities. Single-room systems are the ideal choice for smaller healthcare facilities that are starting to venture into the realm of particle therapy. They are generally easier to implement and manage due to the compact design and relatively simpler logistics. In comparison, multi-room systems are beneficial in treating a larger number of patients concurrently and cater to complex cases, and their implementation demands higher initial investment and operational complexity. On the contrary, single-room systems, with their compact design and manageable logistics, are easier to implement and operate, thus being a better fit for smaller healthcare facilities initiating their journey into particle therapy.

End-User: Significant role of particle therapy in hospitals & clinicals as they strive to provide high-quality care

Ambulatory surgery centers (ASCs) allow surgeons to deliver efficient, high-quality care at a lower cost. In particle therapy, these centers cater to instances where the cancer is well-defined and is treated in a few sessions. Hospitals and clinics offer more comprehensive care and cater to various cancer cases. They provide both proton and heavy ion therapies to treat a variety of cancers, including more complex issues. These institutions have large treatment facilities equipped with advanced particle therapy machines. Due to their nature of operation, ambulatory surgery centers embrace compact, streamlined designs best suited for less complex

cases, striving for efficiency with limited space. Hospitals & clinics offer more robust treatment capabilities to manage various cases, from the simple to the complex.

Therapy Type: Consumer preference for proton therapy as it provides a reduced risk of damage to surrounding tissues

Heavy ion therapy employs densely ionized atoms such as carbon to initiate precise damage to cancer cells. The technique results in minimal damage to surrounding healthy tissue. This therapy is effective on radio-resistant tumors, providing an edge over traditional forms of radiotherapy. Proton therapy is increasingly preferred, especially in pediatrics, due to its damage-limiting property for surrounding tissues and organs, making a significant difference to patients with tumors near critical organs. Heavy ion therapy provides a promising solution for radio-resistant tumors, and proton therapy is often preferred for pediatric cancer patients because of its reduced risk of damage to surrounding tissues.

Component: Rising utilization of product components for treating solid tumors near vital organs due to their high accuracy

Particle therapy products primarily constitute equipment that delivers the target's particle beams. This includes machines such as cyclotrons, synchrocyclotrons, and synchrotrons. Cyclotrons are utilized to accelerate charged particles to high energies. Synchrocyclotrons are designed to overcome the frequency limitation of cyclotrons by altering the frequency of the accelerating electric field. This makes them ideal for particle therapy due to their ability to deliver high-energy beams effectively and accurately. Synchrotrons are particle accelerators but demonstrate more control over the energy of the accelerated particles, making them an excellent choice for particle therapy. They are often utilized in treating deep-seated and complex-shaped tumors. Particle therapy delivers high doses of radiation precisely to tumor cells and comes in different systems where each offers unique benefits depending upon the specific needs and situations of the healthcare establishment. The services segment includes installation, maintenance, training, and consulting services related to particle therapy systems. In comparison, the requirement for a product component is more imminent in countries with health institutes experiencing an influx of cancer patients and having the infrastructure to support a particle therapy unit. The service component's demand is more in countries where healthcare organizations are in the early stages of developing or planning to develop a particle therapy unit.

Regional Insights:

In America, the need for particle therapy has seen consistent growth. Technology innovation is frequent and heavily backed by both private and public organizations. This region holds the most significant market share due to extensive research activities and the rise of numerous startups funded by investors targeting therapy innovation. In the EMEA region, Europe exhibits formidable growth in particle therapy primarily due to the rising incidences of various cancer types and a growing elderly population at risk. Moreover, increased funding in healthcare from various governments and organizations, coupled with well-established healthcare facilities, allows for broader adoption of the technique. Middle Eastern and African countries also show

promising growth, mainly due to rising healthcare expenditure and increased efforts to enhance healthcare infrastructure. In the APAC region, several economies are leading in adopting particle therapy for cancer treatment. Factors contributing to such progress include the increasing prevalence of cancer, rapid urbanization, and continually improving economic conditions. APAC offers a vast population base, which, combined with improving healthcare infrastructures and increasing government funding for cancer research and treatment, presents APAC as a fast-growing market for particle therapy.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Particle Therapy Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Particle Therapy Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Particle Therapy Market, highlighting leading vendors and their innovative profiles. These include Advanced Oncotherapy plc, B dot Medical Inc., Best Particle Therapy, Inc., BioSig Technologies Inc., Covenant Health, Danfysik A/S, Elekta AB, Hitachi, Ltd., IBA International, Koninklijke Philips N.V., Mevion Medical Systems, Mitsubishi Electric Corporation, New Mexico Cancer Center, Optivus Proton Therapy, Inc., P-Cure Ltd, ProTom International, Provision Healthcare, LLC, PTW Freiburg GmbH, SAH Global LLC, Shanghai APACTRON Particle Equipment Co., Ltd., Siemens Healthineers GmbH, Stantec Inc., Sumitomo Heavy Industries, Ltd., Toshiba Medical Systems Corporation, and Xstrahl Ltd..

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Market Segmentation & Coverage:

This research report categorizes the Particle Therapy Market in order to forecast the revenues

and analyze trends in each of following sub-markets:

Based on Therapy Type, market is studied across Heavy Ion Therapy and Proton Therapy. The Heavy Ion Therapy is projected to witness significant market share during forecast period.

Based on Component, market is studied across Product and Service. The Product is further studied across Cyclotrons, Synchrocyclotrons, and Synchrotrons. The Service is projected to witness significant market share during forecast period.

Based on Configuration, market is studied across Multi-room System and Single-room System. The Single-room System is projected to witness significant market share during forecast period.

Based on Cancer Type, market is studied across Breast Cancer, Head & Neck Cancer, Lung Cancer, Pediatric Cancer, and Prostate Cancer. The Head & Neck Cancer is projected to witness significant market share during forecast period.

Based on End-User, market is studied across Ambulatory Surgery Centers and Hospitals & Clinics. The Hospitals & Clinics is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 38.32% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

11. Americas Particle Therapy Market
12. Asia-Pacific Particle Therapy Market
13. Europe, Middle East & Africa Particle Therapy Market
14. Competitive Landscape
15. Competitive Portfolio
16. Appendix

The report provides insights on the following pointers:
1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:
1. What is the market size and forecast of the Particle Therapy Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Particle Therapy Market?
3. What is the competitive strategic window for opportunities in the Particle Therapy Market?
4. What are the technology trends and regulatory frameworks in the Particle Therapy Market?
5. What is the market share of the leading vendors in the Particle Therapy Market?
6. What modes and strategic moves are considered suitable for entering the Particle Therapy Market?

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Mr. Ketan Rohom
360iResearch
+1 530-264-8485
ketan@360iresearch.com

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