

Particle Therapy Market Size, Share & Trends Analysis Report By Therapy Type (Proton Therapy, Heavy Ion Therapy), By System, By Application (Treatment, Research), By Cancer Type (Pediatric, Breast, Lung), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Particle Therapy Market Growth & Trends

The global particle therapy market size is anticipated to reach USD 2.55 billion by 2030, registering a CAGR of 7.63% from 2024 to 2030, according to a new report by Grand View Research, Inc. The market growth is primarily driven by the increasing prevalence of cancer aided by the growing geriatric population. Any age can acquire the disease, but as people age, their chances of developing the disease increase significantly. According to GLOBOCAN 2022 data, approximately 53% of cancer patients were aged 65 years or older. This correlation is probably caused by less efficient cellular repair processes and the build-up of risk factors for particular malignancies, which rise with age.

Therefore, to ensure that older adults are not left behind in the pursuit of universal health coverage, governments will need to devise a plan to promote change for older adults with cancer. Increasing government support for cancer patients and their caregivers for treatment completion fuels the market's growth. For instance, in April 2024, the Albanese Government offered USD 16.5 for a Cancer Support Program grant, with the first round now open for application. This program will enhance disease outcomes for individuals all across Australia. The funding is intended to support small national organizations that promote treatment. Furthermore, the Union for International



Cancer Control (UICC) celebrates 4th February as "World Cancer Day" every year to raise awareness about cancer and available options for treatment.

Such initiatives are expected to drive demand for particle beam treatment over the forecast period, driving market growth. Technological advancements in computing have resulted in faster, more intelligent, & more capable treatment planning and have enabled constant imaging guidance, more precise dosing, and delivery of higher doses. This has resulted in greater efficiency & fewer adverse effects. Dosage optimization and treatment planning have become easier owing to advanced computer algorithms. The advent of proton radiation therapy has helped overcome problems due to the movement of patients, such as during breathing. Furthermore, advances in laser technology enable the development of ultra-quick double-light pulses that can interact with the subatomic process, which helps in tracking ultrafast intra-atom motion using synchrotron radiation.

Moreover, the growing launch of disease diagnosis and treatment centers drives demand for products during the forecast period. For instance, in February 2023, the Apollo Proton Cancer Center launched a Proton Gantry named "Dr. APJ Abdul Kalam Therapy Bay" to offer the most advanced and comprehensive cancer care in India. The hospital administers the nation's largest Proton Beam Therapy (PBT) program to treat patients. APCC is the first and only proton therapy center in the Middle East and South Asia.

Particle Therapy Market Report Highlights

The proton therapy segment held the largest share in 2023 due to the disease's high treatment rate, decreased side effects, high treatment adherence rate, and growing prevalence

The single-room systems segment is expected to grow at the fastest CAGR during the forecast period due to its advantages over multi-room systems, such as low cost, and increased adoption by smaller hospitals and facilities

The treatment segment held the largest share in 2023 due to hospital treatment rates, patient preference for particle therapy over other methods, and an increasing number of patients visiting hospitals for treatment

The pediatric cancer segment held the largest in 2023 owing to a rise in the prevalence and incidence of the disease worldwide and rising demand for particle therapy for its treatment



North America dominated the global market in 2023 owing to factors advanced healthcare infrastructure, high disease prevalence, and a favorable regulatory environment



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