

India Radiotherapy Devices Market By Type (External Beam Radiation Therapy Device, Internal Beam Radiation Therapy Device, Others), By Application (Breast Cancer, Cervical Cancer, Colon and rectum Cancers, Stomach Cancer, Lung Cancer, Prostate Cancer, Skin Cancer, Liver Cancer, Other), By End User (Hospitals & Clinics, Cancer Care Centers, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

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Abstracts

The Indian radiotherapy devices market was valued at USD 144.20 million in 2024 and is projected to reach USD 241.45 million by 2030, growing at a compound annual growth rate (CAGR) of 8.93% during the forecast period. This market is experiencing substantial growth, primarily driven by the rising incidence of cancer and ongoing advancements in treatment technologies. The increasing demand for precise and effective cancer therapies has accelerated the adoption of External Beam Radiation Therapy (EBRT) devices, especially those incorporating advanced methods such as intensity-modulated radiation therapy (IMRT), image-guided radiation therapy (IGRT), and proton therapy.

Government initiatives and investments aimed at enhancing healthcare infrastructure are expanding access to radiotherapy services, particularly in metropolitan and emerging urban areas. Additionally, the rise of medical tourism is contributing to the market, as India becomes a hub for affordable cancer treatments.

Nevertheless, challenges such as the high cost of radiotherapy equipment, the need for

skilled professionals to operate complex devices, and the uneven distribution of advanced healthcare facilities across the country are inhibiting market growth. Despite these challenges, growing awareness of cancer and early detection, alongside efforts to enhance healthcare access, are fostering a positive market outlook. The demand for advanced radiotherapy solutions is expected to continue to rise, particularly as healthcare providers focus on improving access in underserved regions.

Key Market Drivers

Increasing Cancer Prevalence

The growing incidence of cancer in India is a primary driver of the radiotherapy devices market. As cancer rates increase, the demand for advanced treatment options, such as radiotherapy, is also on the rise. Early detection, increased awareness, and the availability of cutting-edge treatment techniques play a crucial role in addressing this escalating health crisis. The market for radiotherapy devices is anticipated to expand significantly due to the rise in cancer cases and the need for more sophisticated medical interventions. The estimated number of new cancer cases in India for 2022 was 1.46 million, with a crude rate of 100.4 per 100,000. With one in nine individuals in India likely to develop cancer in their lifetime, the burden on the healthcare system will intensify, driving demand for modern radiotherapy devices.

Key Market Challenges

High Cost of Radiotherapy Devices

One of the primary obstacles to the growth of the Indian radiotherapy devices market is the high cost of acquiring, installing, and maintaining advanced equipment. Technologies such as linear accelerators, proton therapy machines, and other external beam radiation devices require substantial capital investment, making them inaccessible for smaller hospitals and clinics, especially in rural and semi-urban areas. Additionally, operational costs, including regular maintenance, software upgrades, and power consumption, further strain healthcare providers' budgets. The limited insurance coverage for cancer treatments in India exacerbates this issue, often forcing patients to cover a significant portion of the costs out-of-pocket. This affordability challenge restricts the adoption of radiotherapy devices to well-funded, high-tier hospitals, creating regional disparities in access to advanced cancer treatments. Addressing this challenge will require collaboration between government bodies, healthcare providers, and equipment manufacturers to subsidize costs, improve financing options, and develop

cost-effective radiotherapy solutions.

Key Market Trends

Technological Advancements

Technological innovations are significantly influencing the future of the radiotherapy devices market in India, enhancing the precision, efficiency, and overall effectiveness of cancer treatment. Developments such as image-guided radiotherapy (IGRT), intensity-modulated radiotherapy (IMRT), and stereotactic body radiotherapy (SBRT) have revolutionized cancer care by enabling more targeted and personalized treatments. These innovations minimize damage to surrounding healthy tissues while delivering higher radiation doses to tumors, improving treatment efficacy and reducing side effects. Furthermore, the introduction of artificial intelligence (AI) and machine learning in radiotherapy planning is streamlining treatment processes, improving accuracy, optimizing radiation delivery, and predicting patient responses. Additionally, proton therapy, a state-of-the-art technology, is gradually gaining traction in India due to its superior precision, particularly for treating complex and pediatric cancers.

Key Market Players

Siemens Healthcare Diagnostics Ltd.

Elekta Medical Systems India Pvt. Ltd.

Koninklijke Philips N.V.

Accuray Medical Equipment India Pvt. Ltd.

Hitachi High-Tech India Pvt. Ltd.

Varian Medical Systems

Healthcare Global Enterprises Ltd.

Report Scope

The India Radiotherapy Devices Market is segmented into the following categories, in

India Radiotherapy Devices Market By Type (External Beam Radiation Therapy Device, Internal Beam Radiation The...

addition to the industry trends outlined above:

India Radiotherapy Devices Market, by Type:

External Beam Radiation Therapy Device

Internal Beam Radiation Therapy Device

Others

India Radiotherapy Devices Market, by Application:

Breast Cancer

Cervical Cancer

Colon and Rectum Cancers

Stomach Cancer

Lung Cancer

Prostate Cancer

Skin Cancer

Liver Cancer

Other

India Radiotherapy Devices Market, by End User:

Hospitals & Clinics

Cancer Care Centers

Others

India Radiotherapy Devices Market, by Region:

East India

West India

North India

South India

Competitive Landscape

The report includes a detailed analysis of the major companies operating in the India radiotherapy devices market.

Available Customizations

TechSci Research offers customizations to this report to address specific needs. The following customization options are available:

Company Information: Detailed analysis and profiling of additional market players (up to five).

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