

# Intensity-modulated Radiotherapy Market by Radiation Type (Photon, Electron Beam, Proton and Carbon-Ion Radiation) Application (Prostate, Lung, Breast), End Users ( Hospitals and Independent Radiotherapy centers), and Region - Global Forecasts to 2028

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## Abstracts

The global intensity-modulated radiotherapy market is projected to reach USD 2.8 billion by 2028 from USD 2.2 billion in 2023, growing at a CAGR of 5.2% during the forecast period. The projected surge in market growth for the Intensity-modulated radiotherapy market (IMRT) is underpinned by a confluence of compelling advantages. Notably, IMRT 'capacity to achieve exceptional precision in tumor targeting, coupled with its ability to mitigate collateral damage to healthy tissues, stands as a pivotal driver. Furthermore, the escalating global incidence of cancer amplifies the demand for advanced treatment modalities, with IMRT positioned as a forefront solution. This convergence of factors is poised to usher in a phase of robust expansion within the market, consequently shaping the landscape of IMRT adoption in the forthcoming forecasting years.

“The Brain cancer application segment to register highest CAGR over the forecast period of 2023-2027”

Based on the application, the Intensity-modulated radiotherapy market is segmented into prostate cancer, lung cancer, head & neck cancer, breast cancer, gastrointestinal cancer, gynecological cancer, and other applications. The Breast cancer segment is witnessed the highest growth rate In 2022. The increase in breast cancer can be seen due to aging factors, genetic factors like - inherited genetic mutations, such as BRCA1 and BRCA2, contribute to a small percentage of breast cancer cases, the use of hormone replacement therapy can be a few of the potential factors increasing the rate

of breast cancers. The incidence of breast cancer may appear to be increasing, but breast cancer mortality rates have been declining due to earlier detection and advances in treatment. IMRT allows physicians and patients to eradicate the cells efficiently by using proper radiation intensity .

“Hospitals’ segment to register for the largest market share of the Intensity-modulated radiotherapy market 2022-2027”

The major end users in the Intensity-modulated radiotherapy market are hospitals. The hospitals end-user segment is estimated to hold a significant market share of the Intensity-modulated radiotherapy market during the forecast period. Hospitals, characterized by their capacity to provide a comprehensive array of medical services within a singular facility, confer a distinctive convenience to patients undergoing the Intensity-modulated radiotherapy market (IMRT). This convenience stems from the consolidation of diverse medical needs under one roof, thereby mitigating the necessity for patients to seek multiple appointments at disparate venues. This strategic amalgamation of services not only streamlines patient care but also augments the attractiveness of IMRT as a preferred treatment option. As a result, this seamless alignment of convenience and comprehensive care significantly contributes to the advancement and prominence of the Intensity-modulated radiotherapy market within hospital settings.

**Technological Advances:** Hospitals frequently maintain cutting-edge infrastructure and technological capabilities essential for the successful integration of the Intensity-modulated radiotherapy market (IMRT), thus assuring the ready availability of requisite resources. This pivotal attribute distinctly contributes to the advancement and fortification of the image-guided radiation therapy market.

“Asia Pacific to register significant growth rate in the market during the forecast period.”

For the forecasting period 2023-2028, the APAC region is expected to register a significant growth rate in the market during the forecast period. Asia Pacific comprises India, China, Japan, Australia, South Korea, and RoAPAC. The Asia-Pacific (APAC) region has witnessed a significant increase in the market growth rate for image-guided radiation therapy. There are several drivers that contributed to this growth:

The maturing demographic profile observed in APAC countries accentuates the imperative for efficacious cancer treatment modalities characterized by minimized treatment-related adverse effects. This resonance with the precision-driven attributes of

the Intensity-modulated radiotherapy market (IMRT) substantiates its pivotal role in enhancing the market landscape.

The incorporation of multilingual patient care offerings within APAC hospitals, combined with the accessibility to advanced treatments like the Intensity-modulated radiotherapy market (IMRT), confers a unique allure to the region, particularly among a diverse patient spectrum. This fusion of linguistic inclusiveness and state-of-the-art medical interventions significantly enhances the region's desirability as a favored healthcare destination, thereby fortifying its competitive position within the healthcare market landscape and concomitantly propelling the prominence of IMRT.

A breakdown of the primary participants referred to for this report is provided below:

By Company Type: Tier 1–40%, Tier 2–30%, and Tier 3– 30%

By Designation: C-level–27%, Director-level–18%, and Others–55%

By Region: North America–50%, Europe–20%, Asia Pacific–15%, Latin America–10%, and the Middle East & Africa–5%

Prominent players in this market are Varian Medical Systems, Inc., Elekta (Sweden), and Accuray Incorporated (US), Hitachi (Japan) among others.

## Research Coverage

The report studies the Intensity-modulated radiotherapy market based on radiation type, application, end user, and region.

The report analyzes factors (such as drivers, restraints, opportunities, and challenges) affecting the market growth.

The report evaluates the opportunities and challenges in the market for stakeholders and provides details of the competitive landscape for market leaders.

The report studies micro markets with respect to their growth trends, prospects, and contributions to the global Intensity-modulated radiotherapy market

The report forecasts the revenue of market segments with respect to five major regions.

#### Key Benefits of Buying the Report:

The report will help the market leaders/new entrants/smaller firms in this market with investment evaluation viability within the Intensity-modulated radiotherapy market through a thorough analysis of comprehensive data, thereby facilitating robust risk assessment and enabling well-informed investment determinations. Benefit from meticulous market segmentation encompassing application, end-user, and regional dimensions, affording tailored insights for precise segment targeting. The report also provides an all-encompassing evaluation of encapsulating pivotal trends, growth catalysts, challenges, and prospects, thereby empowering strategic decision-making with astute discernment.

The report provides insights on the following pointers:

Analysis of key drivers (increasing prevalence of cancer patient population, Increasing government initiatives for cancer management, advancements in non-invasive treatments through radiation therapy), restraints (Dearth of skilled radiologist/oncologist, high cost of image-guided radiation therapy treatment, Complexity of imaging technology for treatments), opportunities (Expansion of key players in emerging countries, Rising healthcare expenditure across developing countries), and challenges (Availability of alternative technology) influencing the growth of the Intensity-modulated radiotherapy market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the image-guided radiation therapy market.

Market Development: Comprehensive information about lucrative markets – the report analyses the Intensity-modulated radiotherapy market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the Intensity-modulated radiotherapy market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Siemens Healthineers AG (Germany), Elekta (Sweden), and Accuray Incorporated (US), among others.

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TABLE 71 HITACHI, LTD.: COMPANY OVERVIEW

FIGURE 34 HITACHI, LTD.: COMPANY SNAPSHOT (2021)

#### 11.6 MEVION MEDICAL SYSTEMS

TABLE 72 MEVION MEDICAL SYSTEMS: COMPANY OVERVIEW

#### 11.7 KONINKLIJKE PHILIPS N.V.

TABLE 73 KONINKLIJKE PHILIPS N.V.: COMPANY OVERVIEW

FIGURE 35 KONINKLIJKE PHILIPS N.V.: COMPANY SNAPSHOT (2022)



## 11.8 RAYSEARCH LABORATORIES

TABLE 74 RAYSEARCH LABORATORIES: COMPANY OVERVIEW

FIGURE 36 RAYSEARCH LABORATORIES: COMPANY SNAPSHOT (2022)

## 11.9 BRAINLAB AG

TABLE 75 BRAINLAB AG: COMPANY OVERVIEW

\*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats)\* might not be captured in case of unlisted companies.

## 12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.3 CUSTOMIZATION OPTIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

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