

# Global Radiation Therapy Planning System Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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# Abstracts

According to our (Global Info Research) latest study, the global Radiation Therapy Planning System market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

The global radiation oncology market size was estimated at USD 9.15 billion in 2022 and is expected to grow at a compound annual growth rate (CAGR) of 12.4% from 2023 to 2030. Radiation therapy is one of the three major technical means to treat malignant tumors. It uses radiation to irradiate and kill tumor tissue cells to achieve the purpose of treatment. Radiation therapy has high requirements on dose control and concentration. In order to achieve higher treatment accuracy, faster treatment speed and realize personalized treatment, precision radiotherapy has been proposed. The radiation is concentrated on the lesion and the dose is increased as much as possible. The rays irradiated by the surrounding normal tissues and organs are reduced as much as possible, which has the advantages of high precision, good curative effect, short time, and small side effects. In the context of precision radiotherapy, radiotherapy planning systems are indispensable, and the market space continues to grow.

Treatment planning systems are at the heart of radiation therapy (RT) and the key to improved patient outcomes. Once image datasets are loaded and the tumors are identified, the systems develop a complex plan for each beam line route for how the therapy system will deliver radiation. The software also computes the expected dose distribution in the patient's tissue, including variables such as tissue energy level penetration influenced by the type of tissue the beam lines encounter (e.g., bone or lung



vs. muscle). These systems also help navigate beam placement based on avoiding critical structures that are more sensitive to radiation in an effort to reduce collateral damage from the therapy. This may include automated, complex programming for multi-leaf collimator (MLC) leaf sequencing to shape the beam around critical structures during dose delivery. These treatment plans can also be modified to compensate for the reduction in tumor size over the course of treatments.

This report is a detailed and comprehensive analysis for global Radiation Therapy Planning System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Radiation Therapy Planning System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Radiation Therapy Planning System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Radiation Therapy Planning System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Radiation Therapy Planning System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Radiation Therapy Planning System

To forecast future growth in each product and end-use market

Global Radiation Therapy Planning System Market 2023 by Manufacturers, Regions, Type and Application, Forecast.



To assess competitive factors affecting the marketplace

This report profiles key players in the global Radiation Therapy Planning System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Accuray, Varian, Elekta, Philips Healthcare and RaySearch, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Radiation Therapy Planning System market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Software

Hardware

Market segment by Application

**Conformal Radiation Therapy** 

Electron Beam Radiation Therapy

Radiosurgery with Linear Accelerators

Intensity Modulated Radiation Therapy

Other



#### Major players covered

Accuray

Varian

Elekta

Philips Healthcare

RaySearch

Prowess

Linatech

**Tecnicas Radiofisicas** 

DOSIsoft

Nuclemed

Mevis

HoKai

Neusoft Medical Systems Co., Ltd

BEIJING ASTRO TECHNOLOGY LTD.CO

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)



South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Radiation Therapy Planning System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Radiation Therapy Planning System, with price, sales, revenue and global market share of Radiation Therapy Planning System from 2018 to 2023.

Chapter 3, the Radiation Therapy Planning System competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Radiation Therapy Planning System breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022.and Radiation Therapy Planning System market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Radiation Therapy Planning System.

Chapter 14 and 15, to describe Radiation Therapy Planning System sales channel, distributors, customers, research findings and conclusion.

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