Global Radiation Therapy Market Report

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Executive Summary

Radiotherapy is used to kill cancerous cells and is commonly used either alone or in combination with surgery or chemotherapy. From conventional radiotherapy to advanced forms of treatment such as Intensity-Modulated Radiation Therapy (IMRT), Image-Guided Radiation Therapy (IGRT), stereotactic radiosurgery (SRS), stereotactic body radiotherapy (SBRT) and proton therapy have become more widely accepted methods of treatment. The radiation therapy market is growing at a healthy pace over the past few years on account of rising cancer cases and increase in sophistication of new treatment processes. Several countries with growing economies, including China, India, South Africa and Brazil, are under-equipped and offer a huge opportunity for growth. External beam therapy devices contribute the maximum share to the global radiation therapy devices market, followed by internal radiotherapy devices and systemic radiotherapy devices.

The US market segment is relatively mature and has a significant portion of the installed capacity worldwide. The US market is largely driven by replacements of older radiotherapy systems and reimbursement levels for radiation therapy. In Europe, markets like Russia, Turkey and countries in Eastern Europe have a shortage of radiotherapy systems. Demand in Asia Pacific market remained high in the year 2012 with relatively strong growth in China and India. Key issues of the market include strict regulations and costly treatment. The medical equipment industry is characterized by rapid technological developments and continuous improvements of industrial know-how, resulting in companies launching new products and improved methods for treatment. In radiotherapy and radiosurgery markets, there are three major players namely Varian, Elekta AB and Accuray Incorporated.

This report analyzes the global radiation therapy market with focus on sub-segments like linear accelerator system, proton therapy and particle therapy. The report presents some of the major drivers, trends and challenges being faced by the industry. It also analyzes the competitive scenario of the global radiation therapy market, along with the competitive conditions being faced in North America, Europe and Asia Pacific. The profiles of the four major players, Varian, Elekta, Siemens, and Accuray are being included in the report.

By combining SPSS Inc.’s data integration and analysis capabilities with our relevant findings, we have predicted the future growth of the industry. We employed various significant variables that have an impact on this industry and created regression models with SPSS Base to determine the future direction of the industry. Before deploying the regression model, the relationship between several independent or predictor variables and the dependent variable was analyzed using standard SPSS output, including charts, tables, and tests.
Rise in Cancer Cases and Technological Advances have Created Demand for Radiotherapy Products and Equipment.

- In the year 2012, the global radiotherapy devices market was valued at US$$... billion as compared to US$$... billion in 2011.

- External beam therapy devices contribute the maximum share (....%) to the global radiotherapy devices market, followed by internal radiotherapy devices (....%) and systemic radiotherapy devices (....%).

- Linacs represent the largest product segment within the global radiation therapy equipment market which was estimated to have a market size of approximately US$$... billion in 2011 and is forecasted to reach US$$... billion by 2016.

- While radiation therapy is widely available in the US and Western Europe, many developing countries currently do not have sufficient number of linacs to adequately treat their domestic cancer patients.
The US is the world’s largest market for radiation therapy equipment and has a significant portion of the installed capacity worldwide.

- China, India and Brazil are estimated to have less than ... linacs per million inhabitants. By comparison, the US, Ireland and Denmark have an estimated ..., ..., and ..... linacs per million inhabitants respectively.

- Globally, there are .... proton therapy treatment rooms in 2012 which is expected to grow to .... rooms by 2018.

- Around .... people worldwide received hadron therapy treatments in 2008, which increased to .... in 2012.

- Approximately ...% of cancer deaths in the US were due to lung & bronchus cancer followed by colon & rectum (..%), breast cancer (....%), pancreatic cancer (....%), prostate cancer (...%) and leukemia (....%).

- In 2012, ... units of radiation oncology equipment/machines were installed in China and is forecasted to increase to . units by 2017.
Shortage of Radiation Treatment Capacity in Emerging Countries, Increased Cancer Incidences and Ageing Population will Drive the Market in Future…

- The global radiation therapy equipment market is forecasted to grow at a CAGR of ....% over the period 2012-2016 and will reach US$...... billion by 2016.

- The radiotherapy market is driven by a shortage of radiation treatment capacity that prevails in many countries and by the increased cancer incidence and prevalence, an aging population, better diagnostics and improved treatment.

- More advanced and accurate methods are expected to increase the role of radiation therapy in cancer care and the number of patients being treated with a curative intention is also increasing.

- Companies/manufacturers are increasing their R&D spend to strengthen and develop their position in the market.