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Treatment Planning Systems And Advanced Image Processing Market Size, Share & Trends Analysis Report By Component, By Technique, By Application (Adaptive Radiotherapy, Dose Accumulation), By Region, And Segment Forecasts, 2022 - 2030

https://marketpublishers.com/r/TC57E8032690EN.html
Date: June 2022
Pages: 130
Price: US$ 5,950.00 (Single User License)
ID: TC57E8032690EN

Abstracts

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Treatment Planning Systems And Advanced Image Processing Market Growth & Trends

The global treatment planning systems and advanced image processing market size is expected to reach USD 3.5 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 8.3% from 2022 to 2030. The growing number of cancer cases and increasing digitalization of healthcare facilities are some of the major factors anticipated to propel the adoption of treatment planning systems and advanced image processing solutions over the years. According to WHO, there are around 10 million deaths due to cancer in 2020, which is accounted for about one in every six deaths. In addition, the growing advancement of medical imaging and radiotherapy with integrated AI systems to diagnose tumors or cancer is also anticipated to fuel market growth in the near future. Furthermore, increasing investments by the manufacturers to develop advanced image processing equipment further support market growth.

The treatment planning software segment dominated the market and accounted for revenue share of 88.1% in 2021. This share of the segment is attributable to the increasing adoption of treatment planning software in radiation therapy to develop a plan for how the system will deliver the radiation. In addition, these software programs

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also help medical professionals to generate high-quality treatment plans such as the dose distribution in the patient's tissue and minimization of collateral damage from the therapy. Furthermore, the increase in innovation and growing adoption of Machine Learning (ML) and Artificial Intelligence (AI) based treatment planning software to improve diagnosis and treatment outcomes further supports the growth of the segment.

The in-room imaging segment is anticipated to account for highest market revenue share of 55.4% in 2021. The increase in the number of complex radiotherapy procedures requires in-room image guidance to improve accuracy and precision. Furthermore, the rise in preference and adoption of in-room imaging technology by the healthcare and radiology facilities for decision-making and intervention is also expected to accelerate the segment growth.

In addition, the validation of the image registration segment accounts for a high revenue share of 27.4% in 2021 by application owing to the increasing use of treatment planning systems for accuracy validation in medical image registration techniques, which is very essential in several clinical applications.

North America dominated the market in terms of the revenue share of 38.5% in 2021 followed by Europe. The increasing number of cancer patients and the presence of advanced healthcare infrastructure are some of the major factors for the high revenue share of this region. In addition, increasing healthcare expenditure and high adoption of advanced medical imaging technology is further supporting to the growth of this segment. Moreover, the presence of skilled medical professionals and rapid shift towards the digitalization of healthcare infrastructure is also anticipated to fuel market growth in North America.

Moreover, the COVID-19 pandemic has changed the way of medical services. The increasing adoption of healthcare digitalization platforms with AI and machine learning integration has positively impacted the market growth during the COVID-19 pandemic. Moreover, the increase in online patient monitoring and the growing development of advanced image processing and treatment planning software further propelled market growth. Increasing government initiatives for remote diagnosis of patients and the growing number of cancer patients also drove the adoption of treatment planning software. However, the interruption of the supply chain, shortage, and shifting of medical staff to manage coronavirus disease has certainly reduced the number of medical imaging procedures which in turn moderately impacted the adoption of advanced medical imaging technology.

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Treatment Planning Systems And Advanced Image Processing Market Report Highlights

The market is anticipated to witness significant growth of 8.3% over the forecast period owing to increasing prevalence of cancer and rising AI based product development activities for better treatment planning and advanced image processing

The treatment planning software segment dominated the market and accounted for revenue share of 88.1% in 2021, owing to increased demand for accurate and precise treatment options

The in-room imaging segment dominated the market and accounted for highest revenue share of 55.4% in 2021 owing to increase in number of complex radiotherapy procedures, which requires in-room image guidance to improve the accuracy and precision

Validation of image registration application dominated the market in 2021 owing to increasing use of treatment planning systems for accuracy validation in medical image registration techniques

North America dominated the market and accounted for revenue share of 38.5% in 2021 owing to the increasing number of cancer patients and presence of advanced healthcare infrastructure

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