

Global Radiation Dose Management Market 2023

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Abstracts

Radiation dose management is a crucial aspect of medical imaging procedures, specifically aimed at optimizing and regulating the amount of radiation delivered to patients. It encompasses the utilization of various tools and techniques, including software, services, and consulting, to ensure that patients receive the maximum benefits from imaging technology while minimizing the potential risks associated with radiation exposure. The primary objective of radiation dose management is to safeguard patient safety by minimizing unnecessary radiation dosage and adhering strictly to established regulations and standards.

Recent research indicates that the global radiation dose management market is projected to experience substantial growth, with an expected increase in value by USD 135.4 million within the timeframe of 2023-2029. This growth is predicted to progress at a compound annual growth rate (CAGR) of 7.93% during the forecast period. A significant contributing factor to this expansion is the rising incidence of chronic diseases worldwide. As a result, medical imaging modalities such as CT scans, X-rays, and mammography are being increasingly utilized for diagnostic purposes. While these imaging procedures offer invaluable insights into patients' health conditions, the heightened reliance on them has raised concerns regarding radiation dose exposure and the necessity for effective dose management solutions.

Healthcare providers and patients alike have become more cognizant of the potential risks associated with radiation exposure. Consequently, there has been a noticeable shift towards prioritizing the implementation of radiation dose management practices within medical facilities. The overarching aim is to ensure patient safety and minimize exposure to avoidable radiation. This growing awareness has motivated healthcare providers to adopt comprehensive radiation dose management strategies, allowing them to strike a balance between acquiring accurate diagnostic information and mitigating the potential risks associated with excessive radiation exposure.

The radiation dose management market offers a range of software, services, and consulting solutions tailored to address these challenges. These solutions encompass a wide array of components, such as real-time monitoring, dose tracking, dose optimization, and dose reporting. By adopting these solutions, healthcare providers can ensure that radiation doses are carefully calibrated based on specific clinical indications and patient characteristics, all while adhering to stringent regulatory guidelines and standards.

One of the key drivers fueling the market growth of radiation dose management is the growing awareness among healthcare providers and patients regarding radiation safety concerns. Healthcare professionals and patients alike acknowledge the significance of minimizing unnecessary radiation exposure, leading to an actively sought-after demand for innovative methods to optimize imaging protocols and reduce radiation dosage. As a result, the adoption of radiation dose management solutions has become paramount within healthcare facilities globally.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global radiation dose management market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

Market Segmentation

Modality: CT scanners, fluoroscopy systems, hybrid imaging, interventional angiography systems/Angio CT, mammography systems, PET scanners and SPECT, X-ray, CR, and DR

Product: dosewatch and dosewatch explore, imalogix platform, NEXO [DOSE], radiation dose monitor, radimetrics enterprise platform, syncro-dose, teamplay dose, tqm/Dose and DoseMonitor, others

Deployment mode: cloud-based, on-premise, web-based

End user: diagnostic centers, hospitals, others

Region: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the modality, product, deployment mode, end user, and region. The global market for radiation dose management can be segmented by modality: CT

scanners, fluoroscopy systems, hybrid imaging, interventional angiography systems/Angio CT, mammography systems, PET scanners and SPECT, X-ray, CR, and DR. Among these, the CT scanners segment was accounted for the highest revenue generator in 2022. CT scans are widely used in various medical specialties, including radiology, cardiology, and oncology, for diagnostic and therapeutic purposes. The increasing prevalence of chronic diseases and the growing demand for early and accurate diagnosis have led to a significant increase in the number of CT scans performed globally. This, in turn, has contributed to the higher revenue generation in the CT scanners segment.

Radiation dose management market is further segmented by product: dosewatch and dosewatch explore, imalogix platform, NEXO [DOSE], radiation dose monitor, radimetrics enterprise platform, syncro-dose, teamplay dose, tqm/Dose and DoseMonitor, others. The radimetrics enterprise platform segment is estimated to account for the largest share of the global radiation dose management market. The Radimetrics Enterprise Platform offers comprehensive and advanced features that enable healthcare providers to effectively manage radiation doses across various imaging modalities. The platform facilitates real-time monitoring, analysis, and reporting of radiation dose data, allowing healthcare professionals to identify potential dose outliers and implement necessary corrective actions promptly. Furthermore, the Radimetrics Enterprise Platform provides seamless integration with existing healthcare information systems (HIS) and picture archiving and communication systems (PACS), ensuring efficient data transfer and consolidation. This integration enables healthcare providers to access and analyze radiation dose information alongside other patient data, enhancing workflow efficiency and facilitating informed decision-making.

Based on deployment mode, the radiation dose management market is segmented into: cloud-based, on-premise, web-based. The web-based segment held the largest share of the global radiation dose management market in 2022 and is anticipated to hold its share during the forecast period. Web-based solutions offer flexibility and accessibility, allowing healthcare providers to access and manage radiation dose data from anywhere with an internet connection. This is particularly beneficial in a healthcare environment where multiple users, such as radiologists, physicians, and administrators, need to access and analyze patient radiation dose information. Web-based platforms provide real-time access to radiation dose data, enabling healthcare professionals to monitor and track radiation exposure levels across different imaging modalities and patient populations. The ability to remotely access and analyze data enhances workflow efficiency and enables timely decision-making regarding radiation safety and dose optimization.

On the basis of end user, the radiation dose management market also can be divided into: diagnostic centers, hospitals, others. In 2022, the hospitals segment made up the largest share of revenue generated by the radiation dose management market.

Hospitals are the primary healthcare providers and play a crucial role in patient care and treatment. Radiation-based medical procedures are commonly performed in hospitals for various diagnostic and therapeutic purposes, including X-rays, computed tomography (CT) scans, mammography, and radiation therapy. As hospitals handle a significant volume of patients and perform a wide range of medical imaging procedures, ensuring radiation safety and effective dose management becomes paramount. Excessive or unnecessary exposure to radiation can have adverse effects on patient health. Therefore, hospitals prioritize the adoption of radiation dose management solutions to minimize radiation doses, optimize image quality, and enhance patient safety.

Radiation dose management market by region is categorized into: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America. Among these, North America was accounted for the highest revenue generator in 2022. The region has a well-established healthcare infrastructure and advanced medical facilities. The presence of technologically advanced hospitals, diagnostic centers, and research institutions has contributed to the adoption of radiation dose management solutions. These solutions help in optimizing radiation exposure during medical imaging procedures, ensuring patient safety and the delivery of high-quality care. The stringent regulatory framework and guidelines related to radiation safety in North America have further accelerated the demand for radiation dose management solutions. Regulatory bodies such as the U.S. Food and Drug Administration (FDA) and the Nuclear Regulatory Commission (NRC) have implemented stringent regulations to ensure the safe use of radiation in medical settings. This has created a need for robust radiation dose monitoring and management systems, driving the market growth in the region.

The increasing prevalence of chronic diseases and the rising number of diagnostic imaging procedures have fueled the demand for radiation dose management solutions in North America. Diagnostic imaging plays a crucial role in disease diagnosis and treatment planning. However, excessive radiation exposure can pose health risks to patients. To mitigate these risks, healthcare providers are adopting radiation dose management solutions to optimize radiation doses, minimize unnecessary exposure, and ensure patient safety.

Major Companies and Competitive Landscape

The report has also analysed the competitive landscape of the global radiation dose management market with some of the key players being Bayer AG, Agfa-Gevaert N.V., Beijing Wandong Medical Technology Co., Ltd., Bracco S.p.A., FUJIFILM Holdings Corporation, GE HealthCare Technologies Inc., Koninklijke Philips N.V., Medsquare S.A.S, MyXrayDose Ltd., Neusoft Corporation, Novarad Corporation, PACSHealth, LLC, Qaelum N.V., Sectra AB, Siemens Healthineers AG, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Scope of the Report

To analyze and forecast the market size of the global radiation dose management market.

To classify and forecast the global radiation dose management market based on modality, product, deployment mode, end user, region.

To identify drivers and challenges for the global radiation dose management market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global radiation dose management market.

To identify and analyze the profile of leading players operating in the global radiation dose management market.

Why Choose This Report

Gain a reliable outlook of the global radiation dose management market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

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