

Radiation Dose Management Market by Component (Software, Services), Modality (Computed Tomography, Fluoroscopy and Interventional Imaging, Radiography and Mammography, Nuclear Medicine), Application (Oncology, Cardiology, Orthopedic Applications, and Others), End User (Hospitals, Ambulatory Care Setting , and Others), and Region 2023-2028

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Abstracts

Market Overview:

The global radiation dose management market size reached US\$ 269.4 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 595.2 Million by 2028, exhibiting a growth rate (CAGR) of 14.0% during 2023-2028. Extensive research and development (R&D) activities, escalating growth in the healthcare industry, and increasing incidences of chronic diseases, such as cancer, represent some of the key factors driving the market.

Radiation dose management refers to a medical system used to optimize, regulate, or block doses through barriers or computed tomography (CT) reduction technologies. It includes information of tools for monitoring patient exposure, optimization, quality assurance, dose management, and real-time staff dose monitoring. It helps radiographers, medical practitioners, medical physics experts (MPE), and other health professionals involved in imaging. Radiation dose management assists in facilitating data collection and processing, statistical comparisons, reporting, and management of radiation dose-related information. As a result, radiation dose management systems are



widely used in hospitals, imaging centers, and research institutes for estimating the dose required for a procedure to prevent high radiation dose exposure to patients.

Radiation Dose Management Market Trends:

The increasing utilization of diagnostic imaging modalities across the globe is one of the key factors driving the market growth. Radiation dose management helps in automatically gathering and consolidating the large amounts of dose data generated by imaging modalities. In line with this, the widespread adoption of the technique in ultrasound, magnetic resonance imaging (MRI), computer tomography (CT), positron emission tomography (PET), and X-ray imaging is favoring the market growth. Moreover, the increasing utilization of radiation dose management for identifying, analyzing, and processing significant dose events and exporting dose data for reporting is acting as another growth-inducing factor. Apart from this, the integration of artificial intelligence (AI) and the Internet of Things (IoT) that allows to obtain real-time information on the radiation dose received by patients and improving safety is providing an impetus to the market growth. Additionally, the widespread utilization of radiation dose management, which assists in increasing patient safety by tracking radiation exposure history, is propelling the market growth. Furthermore, the increasing demand for radiation dose management due to its numerous advantages, such as reduced burden of manual collection of doses for CT performed in a center and the early detection of wrong dose selection, is positively influencing the market growth. Besides this, the implementation of various government initiatives to encourage dose management systems due to their increased efficacy is creating a positive outlook for the market. Other factors, including rising expenditure capacities of consumers, extensive research and development (R&D) activities, significant expansion in the healthcare industry, increasing incidences of chronic diseases, such as cancer, and growing awareness about radiation dose management, are anticipated to drive the market growth further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global radiation dose management market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on component, modality, application and end user.

Component Insights:



Software

Integrated Solution Standalone Solution

Services

The report has provided a detailed breakup and analysis of the radiation dose management market based on the component. This includes software (integrated and standalone solution) and services. According to the report, software represented the largest segment.

Modality Insights:

Computed Tomography Fluoroscopy and Interventional Imaging Radiography and Mammography Nuclear Medicine

The report has provided a detailed breakup and analysis of the radiation dose management market based on the modality. This includes computed tomography, fluoroscopy and interventional imaging, radiography, and mammography, and nuclear medicine. According to the report, computed tomography represented the largest segment.

Application Insights:

Oncology Cardiology Orthopedic Applications Others

The report has provided a detailed breakup and analysis of the radiation dose management market based on the application. This includes oncology, cardiology, orthopedic applications, and others. According to the report, oncology represented the



largest segment.

End User Insights:

Hospitals Ambulatory Care Setting Others

The report has provided a detailed breakup and analysis of the radiation dose management market based on the end user. This includes hospitals, ambulatory care settings, and others. According to the report, hospitals represented the largest segment.

Regional Insights:

North America

United States Canada

Asia-Pacific

China Japan

India

mula

South Korea

Australia Indonesia

Others

Europe

Germany
France
United Kingdom
Italy
Spain



Russia Others

Latin America

Brazil Mexico Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, North America was the largest market for radiation dose management. Some of the factors driving the North America radiation dose management market included growing awareness about radiation dose management, extensive research and development (R&D) activities, and various technological innovations.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global radiation dose management market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Bayer Pharmaceuticals (Bayer AG), General Electric Company, INFINITT Healthcare Co. Ltd., Koninklijke Philips N.V., Medsquare, Novarad Corporation, PACSHealth LLC, Qaelum, Sectra AB, Siemens Healthcare Private Limited (Siemens AG), Volpara Health Limited, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global radiation dose management market performed so far and how will it perform in the coming years?



What are the drivers, restraints, and opportunities in the global radiation dose management market?

What are the key regional markets?

Which countries represent the most attractive radiation dose management markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the modality?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What is the competitive structure of the global radiation dose management market?

Who are the key players/companies in the global radiation dose management market?



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