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Radiation Dose Management Market - A Global and Regional Analysis: Focus on Product, Modality, Mode of Deployment, Application, End User, and Country Analysis - Analysis and Forecast, 2025-2035

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Abstracts

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This report will be delivered in 7-10 working days.Global Radiation Dose Management Market: Industry Overview

The global radiation dose management market was valued at $XX million in 2024, and it is expected to grow at a CAGR of 10.45% and reach $XX million by 2035. The growth in the global radiation dose management market is expected to be driven by the rising prevalence of chronic disorders requiring diagnostic intervention, the growing focus on interventional radiology (IR), and the growing awareness surrounding patient safety and the harmful and biological effects of overexposure to ionizing radiation.

Market Lifecycle Stage

The radiation dose management market is in the developing phase. The development of on-cloud dose management solutions and the growing initiatives on radiation dose management for pediatric procedures are some of the major opportunities in the global radiation dose management market. Furthermore, some of the key trends going on in the market include the increasing development of imaging modalities with technologies that lower radiation dose, partnerships and strategic business alliances dominating the market, and various collaborations among market players.

Market Segmentation:

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Segmentation 1: by Modality

- CT Scanners
- X-Ray, CR, and DR
- Mammography Systems
- Interventional Angiography Systems/Angio CT
- Fluoroscopy Systems
- PET Scanners and SPECT
- Hybrid Imaging

The global radiation dose management market (by modality) was dominated by the CT scanners segment in 2024, and the trend is expected to continue till the end of the forecast period 2025-2035.

Segmentation 2: by Product

- Radimetrics Enterprise Platform
- DoseWatch and DoseWatch Explore
- teamplay Dose
- NEXO [DOSE]
- tqm/Dose and DoseMonitor
- Radiation Dose Monitor
- Imalogix Platform
- Syncro-Dose

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NovaDose

DoseWise Portal

SafeCT

MyXrayDose

DoseM

Dose Tracking System

DoseTrack

The global radiation dose management market (by product) is dominated by the Radimetrics Enterprise Platform, followed by DoseWatch.

Segmentation 3: by Mode of Deployment

Web-Based

On-Premise

Cloud-Based

The global radiation dose management market (by mode of deployment) is dominated by the web-based segment.

Segmentation 4: by Application

Oncology

Cardiology

Orthopedic

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Other Application

The global radiation dose management market (by application) is dominated by the oncology segment.

Segmentation 5: by End User

Hospitals

Diagnostic Centers

Others

The global radiation dose management market (by end user) is dominated by the hospitals segment.

Segmentation 6: by Region

North America- U.S. and Canada

Europe- Germany, France, U.K., Italy, Spain, Netherlands, and Rest-of-Europe

Asia-Pacific- Japan, China, India, Australia and New Zealand, South Korea, and Rest-of-Asia-Pacific

Latin America- Brazil, Mexico, and Rest-of-Latin America

Middle East and Africa

Recent Developments in the Global Radiation Dose Management Market

In December 2020, Bayer AG launched Radimetrics v3.0, the latest evolution of its enterprise dose management utility.

In December 2020, FUJIFILM Holdings Corporation launched the unique SYNAPSE Dose 2.0 to provide a comprehensive system for managing patient

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radiation exposure across several imaging modalities.

In January 2020, Agfa HealthCare collaborated with Maasstad Hospital in the Netherlands to support advancements in the consistency and optimization of radiation doses.

In April 2019, Qaelum NV signed an agreement with TOYO Corporation to distribute its dose monitoring solution, DOSE, in Japan.

In January 2019, SST Group, Inc. partnered with Intermountain Healthcare to implement a software platform for the Radiation Dose Monitor (RDM). The software platform permits medical professionals to manage, examine, and optimize the dose delivered to a patient during interventional procedures, medical imaging examinations, and image-guided surgery.

In August 2018, Imalogix launched a newer version of its radiation dose management platform with additional fluoroscopy capabilities. The software solution can automatically calculate the peak skin dose for the patient during a fluoroscopic procedure.

In August 2018, Guerbet LLC USA, a subsidiary of the Guerbet Group, partnered with Imalogix to decrease inconsistency and advance the quality, safety, and competence of care around radiation dose management, to enable the network health system and member facilities to monitor patient radiation dose on a per-procedure and cumulative basis.

In March 2018, PACSHealth, LLC launched DoseMonitor, a radiation dose management software for tracking radiation dose absorption.

Demand - Drivers and Limitations

Following are the drivers for the global radiation dose management market:

Increasing installed bases of radiology equipment and the number of scans lead to a higher risk of radiation exposure, thus creating demand for dose management solutions.

The increasing prevalence of cardiovascular diseases and growing occupational

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hazards in cath labs lead to the growing concern surrounding the effects of radiation exposure.

Growing focus on interventional radiology (IR) is expected to increase demand for IR imaging systems and subsequently lead to a higher risk of radiation exposure.

Increasing concern related to radiation overexposure is leading to higher adoption of dose management solutions.

Growing awareness and initiatives for radiation dose management are expected to push the adoption of dose management software.

Advancements in dose optimization and benchmarking in various countries will encourage healthcare institutions to adopt dose management software.

The market is expected to face some limitations as well due to the following challenges:

The lack of awareness among the population and the shortage of skilled and trained professionals leading to a steep learning curve hinders the adoption of dose management software.

The lack of diagnostic reference levels (DRLs) for radiation dose benchmarking in low-income countries causes healthcare institutions to not pursue the adoption of dose management software with vigor.

How can this report add value to an organization?

Product/Innovation Strategy: The product segment helps the reader understand the different types of radiation dose management software available for use in hospitals and diagnostic centers. Moreover, the study provides the reader with a detailed understanding of the different radiation dose products based on the modalities they are compatible with (CT scanners, X-Ray, CR, and DR, mammography system, interventional angiography systems/angio CT, fluoroscopy systems, PET scanners and SPECT, and hybrid imaging), the modes on which they can be deployed (cloud-based, web-based, and on-premises), and the end users who can adopt such software (hospitals, diagnostic centers, and others).

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Growth/Marketing Strategy: The global radiation dose management market has seen developments by key players operating in the market, such as partnerships, collaborations and business expansions, and new product launches. Partnerships accounted for the maximum number of key developments, i.e., nearly 70.00% of the total developments in the global radiation dose management market.

Competitive Strategy: Key players in the global radiation dose management market analyzed and profiled in the study involve players that offer radiation dose software. Moreover, a detailed market share analysis of the players operating in the global radiation dose management market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analyzing company coverage, product portfolio, and market penetration.

Some of the key players in this market are:

Agfa-Gevaert Group

Sectra AB

Bracco

Guerbet

Canon Inc.

General Electric Company

FUJIFILM Holdings Corporation

Imalogix

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Infinitt Healthcare Co. Ltd.

Koninklijke Philips N.V.

Medic Vision Imaging Solutions Ltd.

Medsquare

MyXrayDose Ltd.

PACSHealth, LLC

Qaelum NV

Bayer AG

SST Group Inc.

Siemens Healthineers AG

Companies that are not a part of the previously mentioned pool have been well represented across different sections of the report (wherever applicable).

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