

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

https://marketpublishers.com/r/R6EE587CB8C9EN.html

Date: March 2023 Pages: 145 Price: US\$ 2,499.00 (Single User License) ID: R6EE587CB8C9EN

# **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?



# Contents

#### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
- 2.3.1 Primary Sources
- 2.3.2 Secondary Sources
- 2.4 Market Estimation
- 2.4.1 Bottom-Up Approach
- 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

#### **3 EXECUTIVE SUMMARY**

#### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

#### **5 GLOBAL RADIATION DOSE MANAGEMENT MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

#### **6 MARKET BREAKUP BY COMPONENT**

- 6.1 Software
  - 6.1.1 Market Trends
  - 6.1.2 Key Segments
  - 6.1.2.1 Integrated Solution
  - 6.1.2.2 Standalone Solution
  - 6.1.3 Market Forecast
- 6.2 Services



- 6.2.1 Market Trends
- 6.2.2 Market Forecast

# 7 MARKET BREAKUP BY MODALITY

- 7.1 Computed Tomography
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Fluoroscopy and Interventional Imaging
- 7.2.1 Market Trends
- 7.2.2 Market Forecast
- 7.3 Radiography and Mammography
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Nuclear Medicine
- 7.4.1 Market Trends
- 7.4.2 Market Forecast

## **8 MARKET BREAKUP BY APPLICATION**

- 8.1 Oncology
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Cardiology
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Orthopedic Applications
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast
- 8.4 Others
- 8.4.1 Market Trends
- 8.4.2 Market Forecast

# 9 MARKET BREAKUP BY END USER

- 9.1 Hospitals
  - 9.1.1 Market Trends
  - 9.1.2 Market Forecast
- 9.2 Ambulatory Care Setting



9.2.1 Market Trends9.2.2 Market Forecast9.3 Others9.3.1 Market Trends9.3.2 Market Forecast

#### **10 MARKET BREAKUP BY REGION**

10.1 North America 10.1.1 United States 10.1.1.1 Market Trends 10.1.1.2 Market Forecast 10.1.2 Canada 10.1.2.1 Market Trends 10.1.2.2 Market Forecast 10.2 Asia-Pacific 10.2.1 China 10.2.1.1 Market Trends 10.2.1.2 Market Forecast 10.2.2 Japan 10.2.2.1 Market Trends 10.2.2.2 Market Forecast 10.2.3 India 10.2.3.1 Market Trends 10.2.3.2 Market Forecast 10.2.4 South Korea 10.2.4.1 Market Trends 10.2.4.2 Market Forecast 10.2.5 Australia 10.2.5.1 Market Trends 10.2.5.2 Market Forecast 10.2.6 Indonesia 10.2.6.1 Market Trends 10.2.6.2 Market Forecast 10.2.7 Others 10.2.7.1 Market Trends 10.2.7.2 Market Forecast 10.3 Europe 10.3.1 Germany



10.3.1.1 Market Trends 10.3.1.2 Market Forecast 10.3.2 France 10.3.2.1 Market Trends 10.3.2.2 Market Forecast 10.3.3 United Kingdom 10.3.3.1 Market Trends 10.3.3.2 Market Forecast 10.3.4 Italy 10.3.4.1 Market Trends 10.3.4.2 Market Forecast 10.3.5 Spain 10.3.5.1 Market Trends 10.3.5.2 Market Forecast 10.3.6 Russia 10.3.6.1 Market Trends 10.3.6.2 Market Forecast 10.3.7 Others 10.3.7.1 Market Trends 10.3.7.2 Market Forecast 10.4 Latin America 10.4.1 Brazil 10.4.1.1 Market Trends 10.4.1.2 Market Forecast 10.4.2 Mexico 10.4.2.1 Market Trends 10.4.2.2 Market Forecast 10.4.3 Others 10.4.3.1 Market Trends 10.4.3.2 Market Forecast 10.5 Middle East and Africa 10.5.1 Market Trends 10.5.2 Market Breakup by Country 10.5.3 Market Forecast

#### **11 SWOT ANALYSIS**

11.1 Overview11.2 Strengths



- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

# **12 VALUE CHAIN ANALYSIS**

# **13 PORTERS FIVE FORCES ANALYSIS**

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

# **14 PRICE ANALYSIS**

# **15 COMPETITIVE LANDSCAPE**

15.1 Market Structure 15.2 Key Players 15.3 Profiles of Key Players 15.3.1 Bayer Pharmaceuticals (Bayer AG) 15.3.1.1 Company Overview 15.3.1.2 Product Portfolio 15.3.2 General Electric Company 15.3.2.1 Company Overview 15.3.2.2 Product Portfolio 15.3.2.3 Financials 15.3.2.4 SWOT Analysis 15.3.3 INFINITT Healthcare Co. Ltd. 15.3.3.1 Company Overview 15.3.3.2 Product Portfolio 15.3.4 Koninklijke Philips N.V. 15.3.4.1 Company Overview 15.3.4.2 Product Portfolio 15.3.4.3 Financials 15.3.4.4 SWOT Analysis 15.3.5 Medsquare



15.3.5.1 Company Overview 15.3.5.2 Product Portfolio 15.3.6 Novarad Corporation 15.3.6.1 Company Overview 15.3.6.2 Product Portfolio 15.3.7 PACSHealth LLC 15.3.7.1 Company Overview 15.3.7.2 Product Portfolio 15.3.8 Qaelum 15.3.8.1 Company Overview 15.3.8.2 Product Portfolio 15.3.9 Sectra AB 15.3.9.1 Company Overview 15.3.9.2 Product Portfolio 15.3.9.3 Financials 15.3.9.4 SWOT Analysis 15.3.10 Siemens Healthcare Private Limited (Siemens AG) 15.3.10.1 Company Overview 15.3.10.2 Product Portfolio 15.3.11 Volpara Health Limited 15.3.11.1 Company Overview 15.3.11.2 Product Portfolio

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.



# **List Of Tables**

#### LIST OF TABLES

Table 1: Global: Radiation Dose Management Market: Key Industry Highlights, 2022 & 2028

Table 2: Global: Radiation Dose Management Market Forecast: Breakup by Component (in Million US\$), 2023-2028

Table 3: Global: Radiation Dose Management Market Forecast: Breakup by Modality (in Million US\$), 2023-2028

Table 4: Global: Radiation Dose Management Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Radiation Dose Management Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 6: Global: Radiation Dose Management Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Radiation Dose Management Market: Competitive Structure

 Table 8: Global: Radiation Dose Management Market: Key Players



# **List Of Figures**

### LIST OF FIGURES

Figure 1: Global: Radiation Dose Management Market: Major Drivers and Challenges Figure 2: Global: Radiation Dose Management Market: Sales Value (in Million US\$), 2017-2022

Figure 3: Global: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 4: Global: Radiation Dose Management Market: Breakup by Component (in %), 2022

Figure 5: Global: Radiation Dose Management Market: Breakup by Modality (in %), 2022

Figure 6: Global: Radiation Dose Management Market: Breakup by Application (in %), 2022

Figure 7: Global: Radiation Dose Management Market: Breakup by End User (in %), 2022

Figure 8: Global: Radiation Dose Management Market: Breakup by Region (in %), 2022

Figure 9: Global: Radiation Dose Management (Software) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Radiation Dose Management (Software) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Radiation Dose Management (Services) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Radiation Dose Management (Services) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Radiation Dose Management (Computed Tomography) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Radiation Dose Management (Computed Tomography) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Radiation Dose Management (Fluoroscopy and Interventional Imaging) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Radiation Dose Management (Fluoroscopy and Interventional Imaging) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Radiation Dose Management (Radiography and Mammography) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Radiation Dose Management (Radiography and Mammography) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Radiation Dose Management (Nuclear Medicine) Market: Sales



Value (in Million US\$), 2017 & 2022

Figure 20: Global: Radiation Dose Management (Nuclear Medicine) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Radiation Dose Management (Oncology) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Radiation Dose Management (Oncology) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Radiation Dose Management (Cardiology) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Radiation Dose Management (Cardiology) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Radiation Dose Management (Orthopedic Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Radiation Dose Management (Orthopedic Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Radiation Dose Management (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Radiation Dose Management (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Radiation Dose Management (Hospitals) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Radiation Dose Management (Hospitals) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Radiation Dose Management (Ambulatory Care Setting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Radiation Dose Management (Ambulatory Care Setting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Radiation Dose Management (Other End Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Radiation Dose Management (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: North America: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: North America: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: United States: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: United States: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028



Figure 39: Canada: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 40: Canada: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 41: Asia-Pacific: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 42: Asia-Pacific: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 43: China: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 44: China: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 45: Japan: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 46: Japan: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 47: India: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 48: India: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 49: South Korea: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 50: South Korea: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 51: Australia: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 52: Australia: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 53: Indonesia: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 54: Indonesia: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 55: Others: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 56: Others: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 57: Europe: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 58: Europe: Radiation Dose Management Market Forecast: Sales Value (in



Million US\$), 2023-2028 Figure 59: Germany: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 60: Germany: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 61: France: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 62: France: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 63: United Kingdom: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 64: United Kingdom: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 65: Italy: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 66: Italy: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 67: Spain: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 68: Spain: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 69: Russia: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 70: Russia: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 71: Others: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 72: Others: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 73: Latin America: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 74: Latin America: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 75: Brazil: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022 Figure 76: Brazil: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 77: Mexico: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022



Figure 78: Mexico: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Others: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Others: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Middle East and Africa: Radiation Dose Management Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Middle East and Africa: Radiation Dose Management Market: Breakup by Country (in %), 2022

Figure 83: Middle East and Africa: Radiation Dose Management Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 84: Global: Radiation Dose Management Industry: SWOT Analysis

Figure 85: Global: Radiation Dose Management Industry: Value Chain Analysis

Figure 86: Global: Radiation Dose Management Industry: Porter's Five Forces Analysis



#### I would like to order

Product name: 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

Product link: https://marketpublishers.com/r/R6EE587CB8C9EN.html

Price: US\$ 2,499.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

# Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/R6EE587CB8C9EN.html</u>

# To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

\*\*All fields are required

Custumer signature \_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>



To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970