

Interventional Imaging Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Offering (CT Scanners, X-Ray Systems, MRI Systems, Ultrasound Imaging Systems, Others), By Application (Cardiology, Neurology, Musculoskeletal, Oncology, Urology, Gastroenterology, Obstetrics, Gynecology, Others), By Region and Competition, 2020-2030F

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Abstracts

The global Interventional Imaging Market was valued at USD 23.87 billion in 2024 and is projected to experience steady growth at a compound annual growth rate (CAGR) of 5.35% through 2030. Interventional imaging has transformed the medical field by enabling real-time, image-guided procedures that enhance precision and significantly improve patient outcomes. These advanced techniques have redefined how medical professionals diagnose and treat a variety of conditions, ranging from complex surgeries to minimally invasive procedures. For instance, a study published by PubMed Central in October 2021 highlighted the pandemic's significant impact on service delivery in radiology departments worldwide. While the market faced initial disruptions due to lockdown measures, the easing of restrictions is expected to drive stable growth during the forecast period. This growth is fueled by several factors, including the increasing global incidence of cancer, which has escalated the demand for interventional imaging solutions. These technologies enable precise diagnostic and therapeutic interventions, such as visualizing tumors and targeting them with high accuracy, ultimately improving survival rates. According to the American Cancer Society, it was projected that 1.9 million new cancer cases and 609,360 cancer-related deaths would occur in the U.S. in 2022. The growing demand for interventional imaging, such as CT scanners and MRI

systems, is largely attributed to enhanced access to advanced diagnostic procedures, particularly in countries with higher living standards.

Key Market Drivers:

Increase in Cardiovascular and Neurovascular Interventions:

Cardiovascular diseases (CVDs) remain the leading cause of death globally, with an estimated 17.9 million fatalities in 2019, representing 32% of all global deaths, according to the World Health Organization. This alarming trend underscores the pressing need for effective solutions in cardiovascular medicine. The use of artificial intelligence (AI) in diagnostic and interventional radiology has gained momentum, enhancing image analysis, supporting accurate diagnoses, and assisting with intervention recommendations. Minimally invasive cardiovascular interventions have gained widespread acceptance due to their advantages over traditional open surgery, such as reduced risk, quicker recovery times, and improved patient outcomes. Interventional imaging technologies play a crucial role in these procedures by providing real-time, high-resolution imaging to guide healthcare professionals during diagnosis, treatment planning, and interventions, ensuring optimal patient care.

Key Market Challenges:

Concerns Over Infection Control:

Healthcare-associated infections (HAIs) are a significant risk to patients, and interventional radiology is no exception. The use of imaging equipment across multiple patients increases the potential for cross-contamination if infection prevention and control (IPC) protocols are not strictly followed. Radiology departments must now adhere to rigorous IPC measures, including the thorough disinfection of equipment, proper hand hygiene, and the use of personal protective equipment (PPE). Despite these efforts, infection control remains a challenge, necessitating the adoption of advanced technologies such as antimicrobial coatings, air filtration systems, and innovative sterilization methods. These infection control concerns may drive up operational costs for healthcare facilities as they invest in enhanced IPC practices, staff training, and the use of disposable or easily sterilized equipment.

Key Market Trends:

Focus on Patient Safety and Radiation Dose Reduction:

Patient safety is a top priority in interventional imaging procedures, which, although minimally invasive, carry potential risks such as radiation exposure, complications from contrast agents, and procedural issues. There has been a notable shift towards enhancing patient safety through improved medical personnel training, the development of comprehensive safety protocols, and the integration of technological advancements to reduce risks. Radiation exposure, in particular, is a key concern, as ionizing radiation can cause tissue damage and increase the risk of cancer. To mitigate this, there has been a concerted effort to reduce radiation doses in interventional imaging through advancements in technology, procedural adjustments, and the implementation of better radiation safety protocols. For example, many newly developed imaging systems feature automatic radiation dose adjustment, ensuring that only the minimum required dose is applied. The ongoing focus on patient safety and radiation dose reduction has spurred innovation, encouraging manufacturers to invest heavily in research and development to create safer and more efficient imaging solutions.

Key Market Players:

Becton, Dickinson and Company

Canon Inc.

Esaote SpA

FUJIFILM Holdings Corporation

Hologic, Inc.

Intuitive Surgical, Inc.

Koninklijke Philips NV

Medtronic plc

Siemens Healthineers AG

Stryker Corporation

Report Scope:

This report segments the Global Interventional Imaging Market into the following categories, along with detailed industry trends:

By Offering:

CT Scanners

X-Ray Systems

MRI Systems

Ultrasound Imaging Systems

Other Imaging Solutions

By Application:

Cardiology

Neurology

Musculoskeletal

Oncology

Urology

Gastroenterology

Obstetrics

Gynecology

Other Applications

By Region:

North America: United States, Canada, Mexico

Europe: France, United Kingdom, Italy, Germany, Spain

Asia-Pacific: China, India, Japan, Australia, South Korea

South America: Brazil, Argentina, Colombia

Middle East & Africa: South Africa, Saudi Arabia, UAE

Competitive Landscape:

This section provides detailed analysis and profiles of the leading companies in the global Interventional Imaging Market.

Available Customizations:

TechSci Research offers customization options for this market report tailored to a company's specific needs. Customization options include detailed analysis and profiling of additional market players (up to five).

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