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Nuclear Imaging Equipment Market Size, Share & Trends Analysis Report By Modality (SPECT, PET), By Application (Cardiology, Oncology), By End-use (Hospitals, Imaging Centers), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Nuclear Imaging Equipment Market Growth & Trends

The global nuclear imaging equipment market size is expected treach USD 7.91 billion by 2030, registering a CAGR of 3.23% from 2025 t2030, according ta new report by Grand View Research, Inc. The primary factor contributing tthe market is the increasing prevalence of chronic diseases and the growing demand for accurate and early diagnostic techniques. Nuclear imaging devices play a pivotal role in the diagnosis of conditions such as cancer, cardiovascular diseases, and neurological disorders, contributing tthe expanding applications of these technologies in clinical settings.

Numerous technological advancements and ongoing research and development activities alsplay a pivotal role in driving market growth. A notable example is the introduction of hybrid imaging systems that integrate nuclear imaging with other modalities such as computed tomography (CT) and magnetic resonance imaging (MRI). These integrated solutions provide comprehensive diagnostic information, giving more efficient and precise patient assessments. For instance, as reported in an article by Siemens Healthcare in April 2023, doctors in Brazil and Argentina discovered that upgrading their PET/CT scanners not only enabled them teffectively address new patient demands and alleviate scheduling pressures but alssurpassed expectations by creating opportunities texplore new areas of care.

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Moreover, the aging population is a significant factor contributing tthe growing demand for nuclear imaging in healthcare. As the elderly population is more prone tvarious health issues, there is an increase in the requirement for accurate diagnostic tools capable of aiding in the early detection and monitoring of age-related diseases.For instance, according tthe World Health Organization (WHO), it is projected that by the year 2030, one in six people worldwide will be aged 60 years or over. This demographic shift emphasizes the increasing prevalence of an aging population and underscores the importance of advanced diagnostic tools, such as nuclear imaging, in addressing the healthcare needs of this demographic group.

Nuclear Imaging Equipment Market Report Highlights

On the basis of modality, the single photon emission computed tomography (SPECT) segment dominated the market with the largest revenue share of 57.88 % in 2024. A key contributing factor is the cost-effectiveness associated with SPECT equipment and procedures.

On the basis of application, the oncology segment dominated the market with the largest revenue share of 48.99% in 2024. This is due tthe growing prevalence of cancer worldwide and advanced nuclear imaging technology, notably PET and SPECT have seen significant expansion owing ttheir unmatched capability tthoroughly examine the molecular traits specific tcancer.

The cardiology segment is expected tgrow at the fastest rate from 2025 t2030. The rising incidence of cardiovascular diseases (CVDs) coupled with the increased awareness regarding nuclear imaging's diagnostic capabilities is anticipated tfuel market growth.

Among end-use, the hospitals segment captured the largest revenue share of 51.96% in 2024. Hospitals are adopting nuclear imaging equipment at an increasing rate.

In 2024, the North America nuclear imaging equipment market held a dominant position, capturing a significant share of 42.82%. This trend is

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expected tcontinue throughout the forecast period.

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Contents

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CHAPTER 3. NUCLEAR IMAGING EQUIPMENT MARKET VARIABLES, TRENDS & SCOPE

CHAPTER 4. NUCLEAR IMAGING EQUIPMENT MARKET: MODALITY ESTIMATES & TREND ANALYSIS

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CHAPTER 5. NUCLEAR IMAGING EQUIPMENT MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

CHAPTER 6. NUCLEAR IMAGING EQUIPMENT MARKET: END-USE ESTIMATES & TREND ANALYSIS

CHAPTER 7. NUCLEAR IMAGING EQUIPMENT MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

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