

Nuclear Medicine Equipment Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Nuclear Medicine Equipment Market Summary

Introduction

Nuclear medicine equipment, encompassing SPECT (Single Photon Emission Computed Tomography), PET (Positron Emission Tomography), and planar scintigraphy systems, plays a pivotal role in non-invasive diagnostics and targeted therapies for conditions like cancer (20 million new cases globally in 2022), cardiovascular diseases, and neurological disorders. The market thrives on the growing prevalence of chronic diseases, an aging population prone to such conditions, and a shift toward personalized medicine through theranostics. Innovations such as AI-optimized imaging and hybrid systems enhance diagnostic precision. The global market is projected to reach between USD 3.8 billion and USD 6.1 billion in 2025, with a CAGR of 2.2% to 4.8% through 2030.

Regional Analysis

North America: The U.S. leads with widespread adoption of PET and SPECT for oncology, while Canada focuses on cardiovascular diagnostics.

Europe: Germany, France, and the UK drive demand due to advanced healthcare systems and aging demographics.

Asia Pacific: China and India see growth from rising cancer rates, while Japan emphasizes precision imaging.

Rest of the World: Brazil expands nuclear medicine access, and the Middle East invests in cutting-edge diagnostics.

Application Analysis

Hospitals: Expected growth of 2.0%-4.6%, driven by complex diagnostics and therapies. Trends focus on hybrid imaging adoption.

Diagnostic Imaging Centers: Projected growth of 2.4%-5.0%, linked to specialized scans. Developments emphasize throughput efficiency.

Others: Anticipated growth of 1.8%-4.4%, covering niche uses. Advances prioritize accessibility.

Type Analysis

SPECT: Expected growth of 2.1%-4.7%, valued for cost-effectiveness. Trends highlight improved resolution.

PET: Projected growth of 2.5%-5.1%, key for oncology precision. Advances focus on AI integration.

Planar Scintigraphy Systems: Anticipated growth of 1.9%-4.5%, suited for basic diagnostics. Innovations emphasize affordability.

Key Market Players

Leading companies include GE HealthCare, innovating with Clarify DL; Siemens Healthineers, advancing imaging solutions; Philips, enhancing SPECT/PET systems; Canon Medical Systems, focusing on diagnostic tech; Mediso, offering molecular imaging; Curium, specializing in radiopharmaceuticals; TTG Imaging Solutions, expanding service networks; CMR Naviscan, targeting breast imaging; Neusoft Corporation, developing affordable systems; Shenzhen Anke High-tech, supporting diagnostics; Bracco Imaging, advancing tracers; and Biosensors International Group, boosting imaging tools.

Porter's Five Forces Analysis

? Threat of New Entrants: Moderate, due to high regulatory and technological barriers, though niche innovators can emerge.

? Threat of Substitutes: Low, as nuclear medicine equipment offers unique diagnostic and therapeutic capabilities.

? Bargaining Power of Buyers: Moderate, with hospitals seeking reliable, cost-effective systems, though specialized needs limit options.

? Bargaining Power of Suppliers: Low, with multiple component and tracer suppliers available.

? Competitive Rivalry: High, with firms competing on AI integration, imaging quality, and theranostic applications.

Market Opportunities and Challenges

Opportunities:

? Cancer (20 million cases annually) and chronic diseases drive demand.

? Aging populations (one in six over 60 by 2030) increase needs, while theranostics and AI innovations enhance precision.

? Non-invasive preferences and hybrid imaging boost adoption.

Challenges:

? High equipment costs and radiopharmaceutical supply issues limit penetration in low-income regions.

? Regulatory hurdles for new tracers slow growth.

? Shortages of trained nuclear medicine specialists restrict market expansion.

Market News

? In July 2024, GE Healthcare acquired Intelligent Ultrasound's AI business for USD 51 million, enhancing scanning efficiency.

? In April 2022, Mediso Ltd acquired Bartec Technologies Ltd, strengthening its nuclear medicine equipment support services.

? In April 2020, TTG Imaging Solutions, LLC acquired Nuclear Imaging Services and NISotopes, expanding its imaging and radiopharmacy footprint.

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