

# **Global Nuclear Medicine Market Size study, by Type (Diagnostic, Therapeutic, Others), by Application (Neurology, Thyroid, Oncology), by Procedures, by End User, and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Nuclear Medicine Market is currently valued at approximately USD 5.5 billion in 2023 and is poised to exhibit a significant compound annual growth rate (CAGR) of 11.3% over the forecast period from 2024 to 2032. The burgeoning field of nuclear medicine, a critical segment within medical imaging and therapeutic technologies, is redefining diagnostic and treatment protocols. By utilizing radioactive isotopes, this technology provides unparalleled precision in detecting, monitoring, and treating complex conditions, such as cancers, neurological disorders, and thyroid abnormalities.

With advancements in technology, nuclear medicine is evolving rapidly, characterized by a shift towards hybrid imaging systems and targeted radiotherapies. Diagnostics, particularly Single Photon Emission Computed Tomography (SPECT) using Technetium and Positron Emission Tomography (PET) employing F-18 isotopes, have become essential tools in clinical decision-making. Therapeutics, leveraging beta and alpha emitters like Yttrium-90 and innovative brachytherapy solutions, are enhancing patient outcomes. These breakthroughs are augmented by substantial investment in research, bolstering the market's ability to cater to an array of medical challenges with heightened accuracy and efficacy.

The global market's growth trajectory is driven by rising incidences of chronic diseases, such as cancer and neurodegenerative disorders, necessitating advanced diagnostic and therapeutic interventions. Moreover, government initiatives and increased healthcare expenditure globally are catalyzing the adoption of nuclear medicine.

However, the high cost of equipment and radioisotopes, coupled with stringent regulatory frameworks governing their use, remains a barrier to market expansion. Despite these challenges, innovations in isotopic production, coupled with collaborations between public and private sectors, present lucrative opportunities for stakeholders.

Regionally, North America dominates the nuclear medicine market, driven by advanced healthcare infrastructure, robust R&D activities, and a high prevalence of chronic diseases. Europe follows closely, benefiting from strong regulatory support and increasing investments in radiopharmaceutical development. The Asia-Pacific region, projected to witness the fastest growth, owes its momentum to rapidly improving healthcare facilities, a growing aging population, and rising awareness about nuclear medicine's therapeutic potential in countries such as India, China, and Japan.

Major market players included in this report are:

Siemens Healthineers

GE Healthcare

Cardinal Health

Bayer AG

Bracco Imaging S.p.A.

Curium Pharma

Advanced Accelerator Applications

Lantheus Holdings, Inc.

Jubilant Radiopharma

Nordion (Canada) Inc.

Isotopia Molecular Imaging Ltd.

Eckert & Ziegler Group

Alpha Tau Medical Ltd.

Theragnostics Ltd.

Telix Pharmaceuticals Limited

The detailed segments and sub-segment of the market are explained below:

By Type:

Diagnostic

SPECT

? Technetium

PET

? F-18

Therapeutic

Beta Emitters

? Y-90

Alpha Emitters

Brachytherapy

By Application:

Neurology

Thyroid

Oncology

By Procedures:

Imaging Procedures

Treatment Procedures

By End User:

Hospitals and Clinics

Academic and Research Institutes

Diagnostic Imaging Centers

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

*Global Nuclear Medicine Market Size study, by Type (Diagnostic, Therapeutic, Others), by Application (Neurolog...*

Historical year: 2022

Base year: 2023

Forecast period: 2024 to 2032

#### Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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