

Nuclear medicine is a medical specialty involving the application of radioactive substances in the diagnosis and treatment of disease. Nuclear medicine imaging, in a sense, is "radiology done inside out" or "endoradiology" because it records radiation emitting from within the body rather than radiation that is generated by external sources like X-rays. In addition, nuclear medicine scans differ from radiology, as the emphasis is not on imaging anatomy, but on the function. For such reason, it is called a physiological imaging modality. Single photon emission computed tomography (SPECT) and positron emission tomography (PET) scans are the two most common imaging modalities in nuclear medicine.

In the present book, fifteen typical literatures about Nuclear medicine published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Nuclear medicine. We hope this book can demonstrate advances in Nuclear medicine as well as give references to the researchers, students and other related people.¹

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¹ https://en.wikipedia.org/wiki/Nuclear_medicine