

# The Value & Quality of Nuclear Medicine

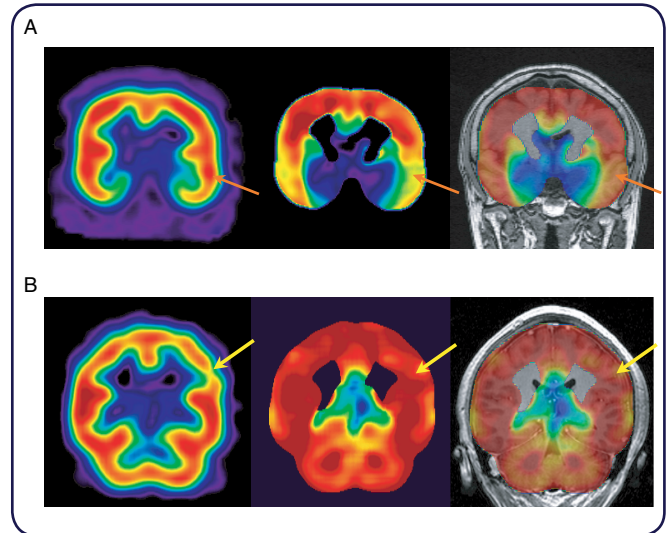
## SPECT Imaging Information for Healthcare Provider

### What is Nuclear Medicine?

Nuclear medicine uses very small amounts of radioactive materials called radiopharmaceuticals to diagnose and treat disease.

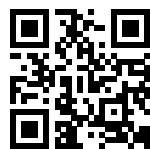


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### What is SPECT Imaging?

Single photon emission computed tomography—or SPECT—imaging creates a 3-D image of the radiopharmaceutical distribution in the transverse, coronal, and sagittal planes. This feature allows for the detection and localization of lesions deep within the body. These tomographic images yield a higher image contrast than planar images due to the reduction of overlying and underlying activities outside the plane of interest. Combined with computed tomography (CT) images, SPECT-CT provides both physiological and anatomical images to help better diagnose the patient.



For more information about SPECT imaging, scan this QR code or [click here](#).

### What You Should Know about SPECT Imaging

- SPECT Imaging has applications in the fields of oncology, neurology, cardiology, and therapeutics.
- Can be used with novel radiolabeled tracers specific to different biochemical targets.
- The combination of functional SPECT imaging to detect physiological abnormalities with anatomical CT imaging, (of very high structural information in one single unit) improves diagnostic capabilities.



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