Myocardial Perfusion Positron Emission Tomography (PET)

The American Society of Nuclear Cardiology (ASNC) and the Society of Nuclear Medicine and Molecular Imaging (SNMMI) have concluded that the properties of myocardial perfusion PET according to the published literature **are sufficient to advance recommendations for its use in clinical practice**.

PROPERTIES OF MYOCARDIAL PET

- *High diagnostic accuracy*
- *Consistent high quality images*
- *Low radiation exposure*
- *Short image acquisition time*
- *Quantification of myocardial blood flow*
- *Strong prognostic power*

PREFERRED TEST

Myocardial perfusion PET is a first-line preferred test for patients:

Unable to complete a diagnostic-level exercise stress imaging study,

With known or suspected CAD, and

Who meet appropriate criteria for a stress-imaging test.

There are no clinical scenarios where PET should not be considered a preferred test for patients who meet appropriate criteria for a stress imaging test and who require pharmacologic stress.

RECOMMENDED TEST

Patients with suspected active CAD who meet appropriate criteria for a stress-imaging test and who also meet one or more of the following criteria:

- Poor quality prior stress imaging study
- Young patients with established CAD
- Body characteristics that commonly affect image quality
- High-risk patients
- Patients in whom myocardial blood flow quantification is needed

For additional details, please visit www.asnc.org for a link to the *American Society of Nuclear Cardiology and Society of Nuclear Medicine and Molecular Imaging Joint Position Statement on the Clinical Indications for Myocardial Perfusion PET.*