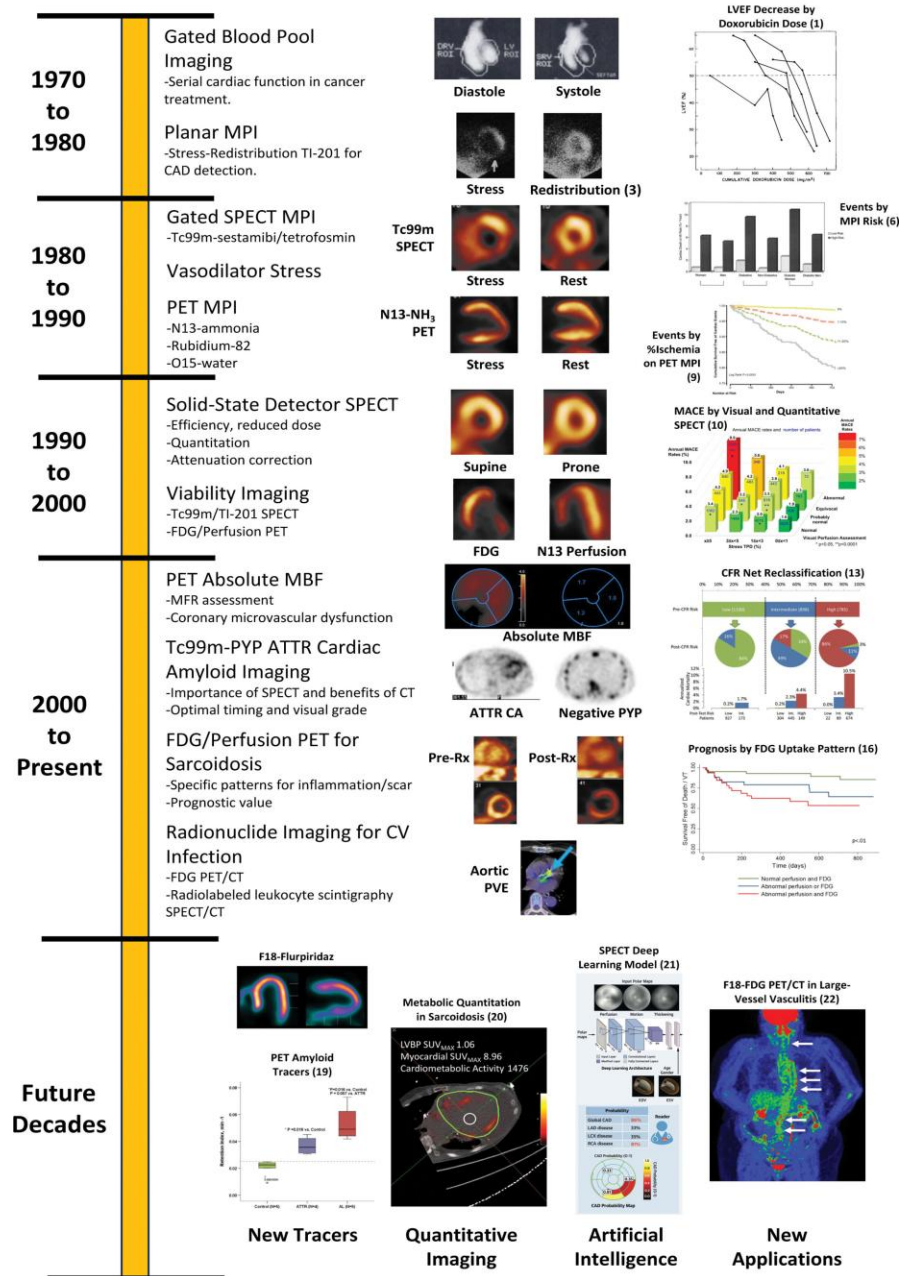


The Heart of Nuclear Medicine:



Amy Yarshen, MBA, CNMT
Program Director and Associate Professor
Nuclear Medicine Technology

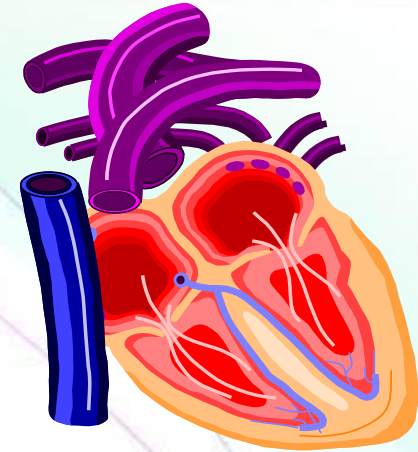
Nuclear Cardiology: Past, Present, and Future



Nuclear Cardiac Imaging: The Heart of Nuclear Medicine

- Major Categories of NM Cardiac Exams

- Myocardial **Perfusion**
- Myocardial **Function**
- Myocardial **Viability**
- Myocardial **Sympathetic Innervation**



- Type of Cardiac exam chosen depends on desired cardiac information

Cardiovascular System Exams in Nuclear Medicine

- **Perfusion: (MPI) “NM Stress Test”**
 - **^{99m}Tc -RRx (1 and 2 Day Protocols)**
 - Thallium-201 thallos chloride
 - Dual Isotope ($\text{Tl}201/^{99m}\text{Tc}$ -RRx)
 - Rb-82 Chloride
 - N-13 Ammonia
- **Function: Equilibrium Gated Angiography (ERNA, MUGA)**
 - **Equilibrium**
 - First-Pass
- **Viability**
 - Tl -201
 - F-18 FDG
- **Sympathetic Innervation**
 - $\text{I}123\text{-mIBG}$ (AdreView)

