

## Methods

- Elliptical Phantom (Data Spectrum Corp.)
- Fillable hot spheres (38, 32, 25, 18, 16, 13 mm OD)
- Sphere to background ratio = 8 to 1
- Activity density simulates a 15 mCi dose in 70 kg body
- Contrast measure using ROIs
- SNR (Detectability Index, DI)
- Conditions investigated:
  - total activity
  - out-of-field activity
  - randoms correction
  - Compton windows
  - scatter correction
  - attenuation correction

### Cameras and distinguishing features:

- ADAC MCD (2)
  - Measured attenuation maps
  - Model-based randoms correction
  - "3D" type geometry
- ECAM+
  - Delayed window randoms correction
  - "2D" type geometry
- Picker PCD
  - 3/4" crystal
  - List mode
  - Calculated attenuation on projections
- Acquisitions: F-18, 64 views, 30n sec./view, 180 deg. Rotation, 128 matrix, decay correction
- Reconstructions: 8 subsets, 4 iterations, "equal" filtering