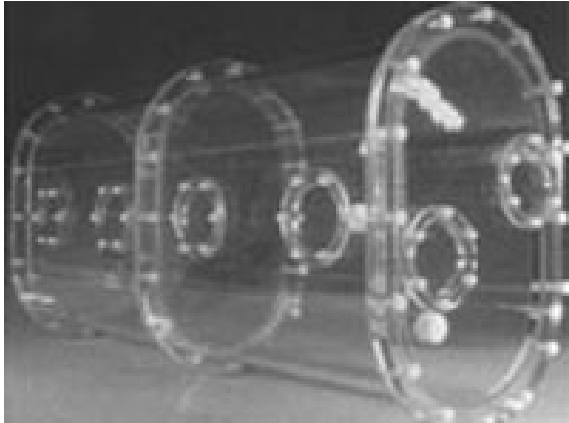


PET Phantoms

Extended Oval PET Phantom – Turkington



The Extended Oval PET Phantom is designed to simulate the distribution of radioactivity throughout the long body torso. It consists of a set of two 40 cm long cylinder sections with an oval shaped cross section. A single 40 cm section fills the axial FOV of a large camera. The Phantom allows placement of optional internal containers to simulate radioactive distribution in various optional organ inserts.

The Phantom is used for:

- Evaluation of camera-based and dedicated PET systems
- Evaluation of Fusion Imaging Systems
- Measurements of contrast, signal-to-noise ratio using hot inserts
- Evaluation of the effects of out-of-field-of-view activities
- Evaluation of attenuation and scatter correction

SPECIFICATIONS:

Dimensions: O.D.: 8.27" anterior-posterior x 14.2" lateral x 31.5" l (21 x 36 x 80 cm)

I.D.: 7.5" anterior – posterior x 13.4" lateral (19 x 34 cm)

Cylinder Wall Thickness: 0.4" (1 cm)

Height of Each Cylinder Section: 40 cm

Cardiac Insert



- Evaluation of cardiac ECT data
- Evaluation of attenuation and scatter
- Simulates normal and abnormal myocardial uptake
- Solid inserts simulate transmural and non-transmural cold abnormalities
- Fillable inserts simulate transmural and non-transmural cold or hot abnormalities

This insert provides a multi function simulation of the left ventricle, and can be used to evaluate SPECT imaging of cold defects within "myocardium." Two solid acrylic sectors are supplied with the insert, each, 1cm thick and 2 cm long. These non filling defects may be placed at various positions within the ventricle wall, either anteriorly or posteriorly. The long axis of the ventricle is adjustable from 30 to 60 degrees from the .long axis of the cylinder.

PET Extended Oval Phantom

Optional Cardiac Insert

