Hoffman Multi-Compartment 2-D Brain Phantom™
Model BR/2D-MC/P

Main Features:
- Anatomically correct - varying isotope uptake ratios - simulation of the activity distribution in a flow or metabolic image of normal and abnormal human brain*
- Seven (7) gray-matter compartments that may be separately filled with varying amounts of radiotracer to simulate a variety, of "hot" and "cold" abnormalities
- Normal gray-matter:white-matter:ventricle activity, ratio is 4:1:0 (simulated by partial volume effect)
- Abnormal-gray-matter:normal-gray-matter activity, ratios can be varied from 0.25:1 to greater than 100:1

Main Applications:
- SPECT and PET applications include research, system performance measurements, optimization of imaging protocols, image interpretation, and training

(A) SPECT image and profile of Hoffman 2-D Multi-Compartment Brain Phantom™ with a compartment (arrow) filled with increased activity to simulate a 67% increase in perfusion during an intraictal phase.

(B) SPECT image and profile of Hoffman 2-D Multi-Compartment Brain Phantom™ with a compartment (arrow) filled with decreased activity to simulate a 67% reduction in perfusion during an interictal phase.

(C) SPECT image and profile of Hoffman 2-D Multi-Compartment Brain Phantom™ with a compartment (arrows) filled with decreased activity to simulate a 33% reduction in perfusion in the left frontal lobe.