Hoffman 3D Brain Phantom™

Model BR/3D/P

Hoffman 3D Brain Solid Defects Set 2 on second page

Main Features

- Anatomically accurate simulation of radioactivity distribution for brain SPECT and brain PET studies* and distribution of proton density and relaxation parameters for brain MRI studies
- Simulates 4:1 uptake ratio (by partial volume effect) seen for normal gray and white matter in flow and metabolic studies
- Single fillable chamber eliminates the necessity of preparing different concentrations of radioactivity
- Solid defects for basil ganglia region available

Main Applications

- Evaluation of acquisition and reconstruction methods for brain ECT studies
- Evaluation of 3-D reconstruction methods
- Evaluation of 3-D attenuation and scatter compensation methods
- Evaluation of 3-D SPECT, PET and MRI registration techniques
- Research

Specifications

Cylinder material is PMMA
Cylinder inside diameter: ~ 208 mm
Cylinder inside height: ~ 175 mm
Fillable volume: ~ 1.2 liter
Slice Thickness:
Insert slice material is Polycarbonate
Very top slice: ~ 3.1 mm
All Center slices: 6.5 mm
Bottom slice: ~ 9.7 mm

Shipping

Carton: 13" x 13" x 13"
Weight: 14lbs.

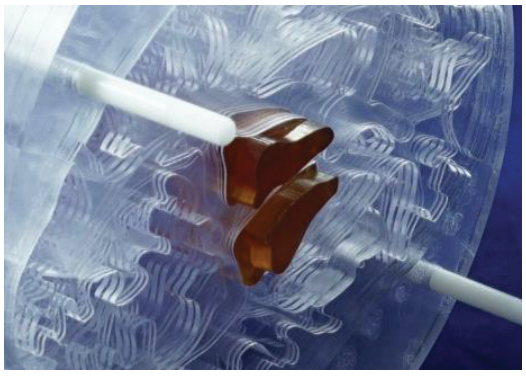
**Hoffman EJ, Cutler PD, Digby WM and Mazziotta JC. 3-D phantom to simulate cerebral blood flow and metabolic images for PET, IEEE Trans Nucl Sci 37:616-620, 1990.*



Hoffman 3D Brain Phantom™



Components of 3D Brain Phantom™



Hoffman 3D Brain Solid Defects Set 2™

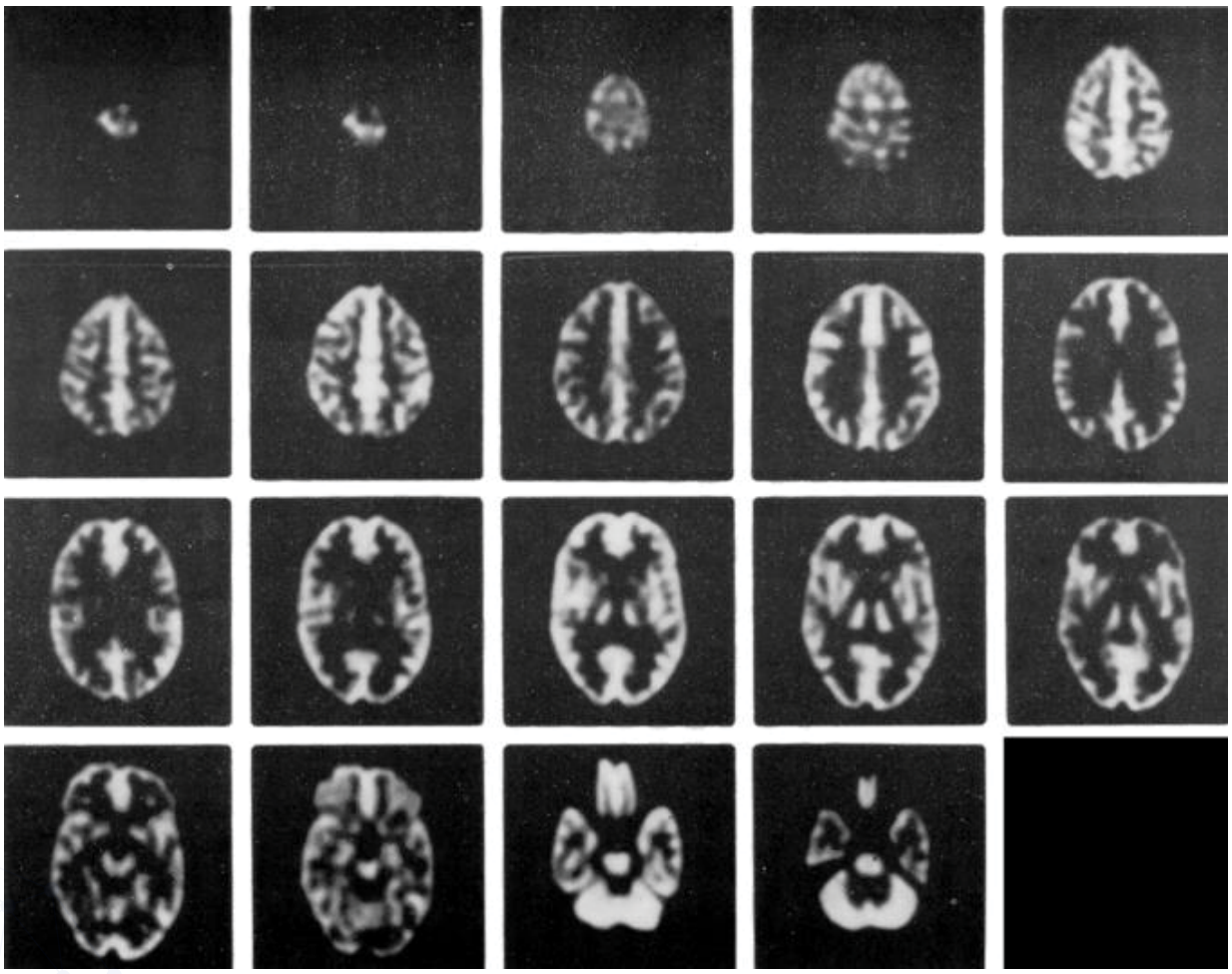
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Hoffman 3D Brain Solid Defects Set 2

Model BR/3D-SOL/SET2

Main Features

- Cold defects can be located in the basil ganglia region
- Allows user to determine image shape of the defect



Hoffman 3D Brain Phantom™

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