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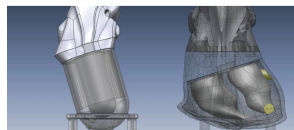
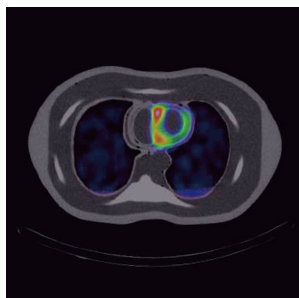
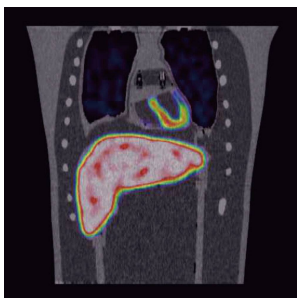
PET/SPECT Thorax Phantom

Item No. PH-63
Weight
Brand KYOTO KAGAKU, JAPAN

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SKU:

Categories: Radiology Phantom



Product Description

PET/ SPECT Thorax Phantom is an optimal tool for study in nuclear medicine

Features

Training skills / Applications

Case / Pathology

Set includes

Size (approx.)

Weight (approx.)

Materials

Update

Examination of myocardial density through SPECT imaging
>Verification of myocardial imaging with the use of various RI solution densities >Ability to capture defects of the myocardial region >Can reproduce image variations of the heart by injecting RI solutions in the liver, kidney and lungs
Examination of RI solution density for simulated tumors >The simulated tumors can be inserted into lung, liver and breast >Tumors can be filled with FDG/RI solution into the spheres for evaluation of density, size and placement

PET/SPECT Quality management of NM equipment Myocardial density with SPECT imaging RI solution density for tumor imaging

>Anatomy Liver Lung (right/left) Kidney (right/left) Hot spots (liver, lungs and breast) * Hot spot for PET can be set in liver, lungs and breast. Heart - Anatomical type: right ventricle, left ventricle and myocardium - Geometric type: left ventricle and myocardium

1 thorax body 2 lungs (left and right) 4 hearts 1 liver 2 kidneys 1 rib cage and spine 2 breasts 3 hot spots 1 base several plastic pins 6 supporting bars 4 flat bar rings for base 5 tubes 1 syringe several nuts and bolts 1 water tank manual 1S6451S1

W44 x D29 x H71cm

21kg (Phantom) 40 kg (filled with water)

Soft tissue: transparent polyurethane Lungs: materials with density 0.4 g/cm³ Bone materials: Calcium infused material to provide proper attenuation with use of RI solutions
***** HU Bone: 370HU Lung: -900HU Organ shell material: 100HU, and 1.16g/cm³ in density

March 19, 2024

The PET/SPECT Thorax Phantom (Item No. PH-63, Brand: Kyoto Kagaku, Japan) is a comprehensive tool for nuclear medicine study, supporting myocardial density examination through SPECT imaging and RI (radioisotope) solution density evaluation for simulated tumors. Myocardial imaging can be verified using various RI solution densities, with the ability to capture defects in the myocardial region. Image variations of the heart can be reproduced by injecting RI solutions into the liver, kidney, and lungs. Simulated tumors can be inserted into the lung, liver, and breast, and filled with FDG/RI solution to evaluate density, size, and placement.

Training applications:

- PET/SPECT imaging
- Quality management of nuclear medicine equipment
- Myocardial density assessment with SPECT imaging

- RI solution density evaluation for tumor imaging

Anatomy and pathology represented: Liver, lungs (right/left), kidneys (right/left), hot spots (settable in liver, lungs, and breast for PET), heart — both anatomical type (right ventricle, left ventricle, myocardium) and geometric type (left ventricle and myocardium).

Set includes: 1 thorax body, 2 lungs (left and right), 4 hearts, 1 liver, 2 kidneys, 1 rib cage and spine, 2 breasts, 3 hot spots, 1 base, plastic pins, 6 supporting bars, 4 flat bar rings for base, 5 tubes, 1 syringe, nuts and bolts, 1 water tank, manual.

Specifications:

- Size approx. W44×D29×H71cm
- Weight approx. 21kg (phantom alone), 40kg (filled with water)
- Materials: Soft tissue — transparent polyurethane; lungs — material with density 0.4g/cm³; bone — calcium-infused material for accurate attenuation with RI solutions
- HU values: Bone 370HU, lung -900HU, organ shell material 100HU (density 1.16g/cm³)

Why Buy from SEM Trainers? SEM Trainers & Systems is an authorized distributor of Kyoto Kagaku products in India with over 30 years of experience supplying nuclear medicine and PET/SPECT training phantoms to 1,500+ institutions across 28 states. We provide pan-India delivery and dedicated after-sales support.

Frequently Asked Questions

Q: What's the difference between the anatomical and geometric heart types? A: The anatomical type reproduces realistic right ventricle, left ventricle, and myocardium structure; the geometric type simplifies the left ventricle and myocardium into standardized geometric shapes for more controlled quantitative testing.

Q: How do I order from SEM Trainers? A: Contact us at sem@semtrainers.com or call +91-88495 63724 for pricing and availability.