DXA-Spine-QA-Phantom

A Phantom for Quality Assurance of DXA Bone Mineral Density Measurements of the Spine.

Designed on the basis of the well established European Spine Phantom (ESP) the QRM-DXA-Spine-QA-Phantom incorporates a simplified and more cost effective design of the vertebrae specifically developed for quality assurance (QA) and stability monitoring of Dual X-ray Absorptiometry (DXA) devices.

With the QRM-DXA-Spine-QA-Phantom, areal Bone Mineral Density (aBMD) can be easily determined in AP and lateral projections.

Benefits

- ✓ bone mineral content (BMC) in g
- ✓ bone mineral areal density (BMD) in g/cm^2 for DXA AP and lateral projections
- ✓ projected area (A) in cm^2

Specification

Phantom body ..... tissue-equivalent plastic
at 120 kV (CT)
L1- L3 ..... 3 fully homogeneous
Phantom body ..... 260 mm x 180 mm (± 2mm)
Phantom weight ..... 4300 g

Version 1

3 identical vertebrae:
aBMD (AP) ..... 1.0 g/cm^2

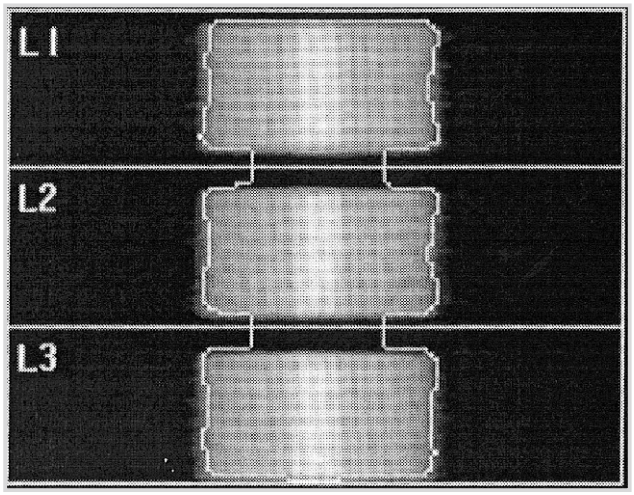
Version 2

3 different vertebrae:
aBMD (AP) ..... 0.5, 1.0 and 1.5 g/cm^2

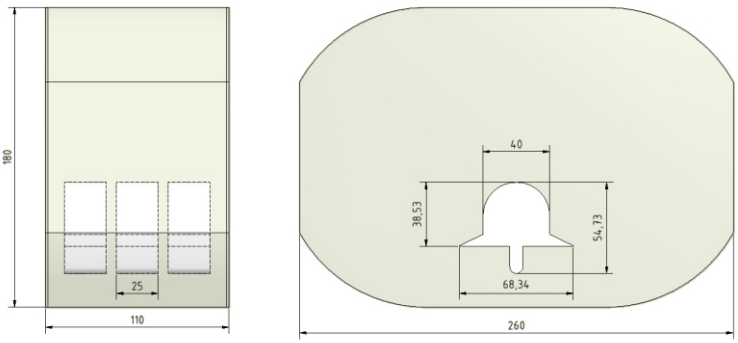
Accuracy ..... ±3% of specified values
±1% of certified values

Different HA concentrations for the vertebrae

The QRM-DXA-Spine-QA-Phantom



DXA AP scan of the phantom (3 identical vertebrae)



Measures of the QRM-DXA-Spine-QA-Phantom

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