

Forearm Phantom

A Phantom for Quantitative Computed Tomography (QCT) measurements of the forearm to calibrate CT values to Bone Mineral Density (BMD).

The QRM-Forearm-Phantom was developed for calibrating CT values to BMD. Its shape is optimized to the anatomy of an adult forearm. It is placed between the forearm and the CT coach pet directly.

The phantom consists of two solid cylindrical rods, of water-equivalent and bone-equivalent material, respectively.

Specifications

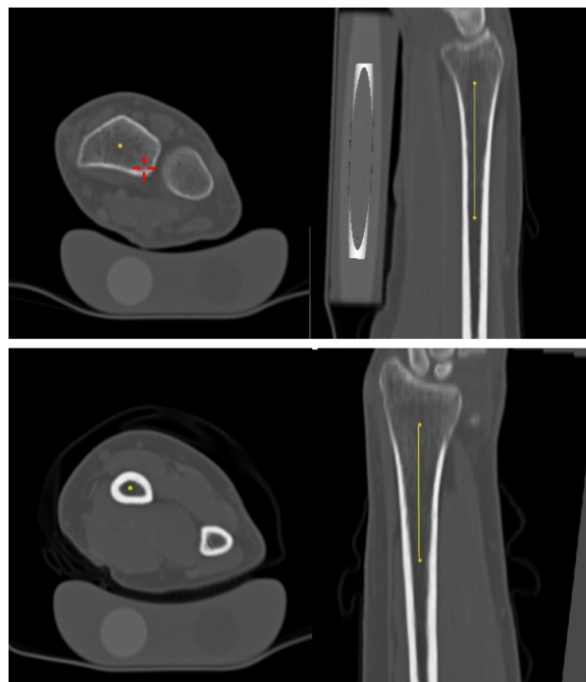
Base materialtissue-equivalent resin
Phantom cross section..... 70 x 25
mm²
Phantom length150 mm
Phantom weight 225 g
Bone eqv insert specified 200 mg HA/cm³
Water equivalent insert 0 HU (80 - 140
kV)

References

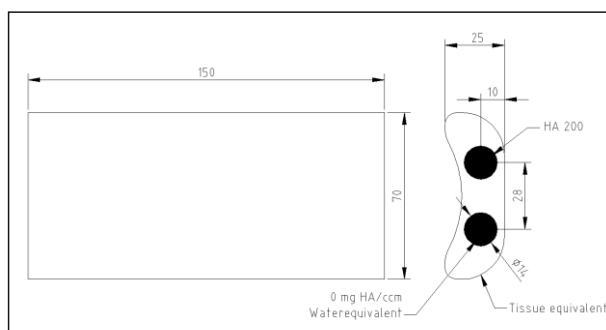
- [1] K. Engelke, W. Timm, B. Stampa, E. Paris, T. Fuerst,
C. Libanati, H.K. Genant.
Quantitative Computed Tomography (QCT) of the
forearm using clinical CT scanners. Presented
at "29nd Annual Meeting of the American Society
for
Bone and Mineral Research", Honolulu, HI (2007).
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The QRM-Forearm-Phantom



CT-scans of a Forearm - and below the calibration phantom [1]



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