

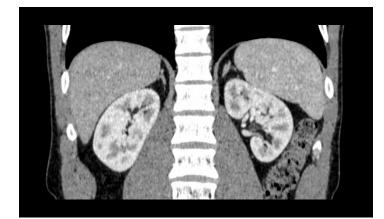


This abdomen phantom can be used in CT for evaluation of low-contrast lesions in the pancreas. It was designed to enable evaluation of diagnostic software, including Al tools.

The phantom simulates a contrast medium enhanced abdomen in early portal venous phase and has 5 low-contrast pancreatic lesions.

The phantom provides a detailed and realistic simulation of soft and bone tissue, including small details such as lymph nodes. Air voids are filled with a cellulose-polymer composite of approx. -80 HU.

The phantom can be used for detection, segmentation and classification tasks and other common methods of image quality evaluation.

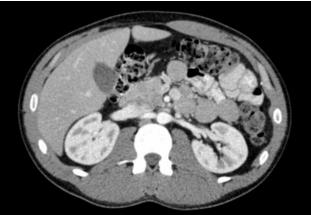












Specifications

Size	Approx. 268 x 189 x 149 mm	
Weight	Approx. 5400 g	
Base material	Cellulose-polymer composite	
Optimal tube voltage	120 kVp (cf page 4) - adaptable upon request -	

Diagnostic features

5 rod-shaped pancreatic lesions Lesion height: 10.9 mm Lesion diameter: 11 mm Lesion edge: sharp

Lesion #	Position	Approx. contrast at 120 kVp
1	Head	-20 HU
2	Head	-30 HU
3	Neck	-40 HU
4	Body	-50 HU
5	Tail	-60 HU

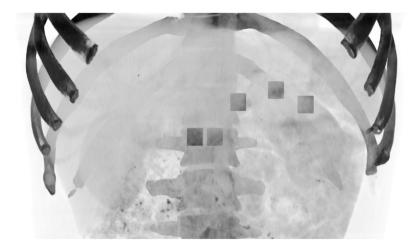
Similar products

- Head phantom with brain lesions
- Abdomen phantoms with liver lesions
- Abdomen phantoms with pancreatic lesions
- Breast phantom with microcalcifications and breast mass

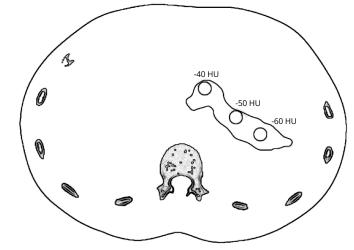
For more information visit www.phantomx.de

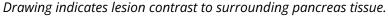
www.phantomx.de



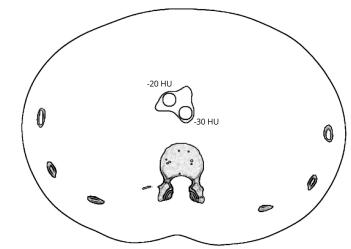










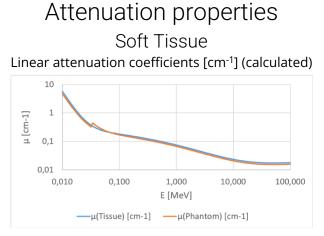


Drawing indicates lesion contrast to surrounding pancreas tissue.

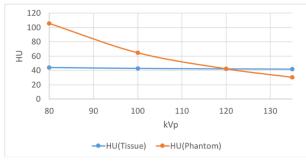
PhantomX GmbH Schwedenstr. 14, 13357 Berlin

www.phantomx.de

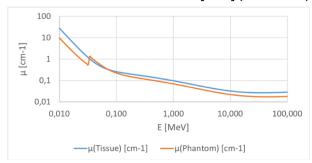




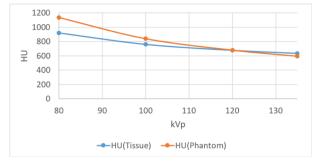








Hounsfield units (calculated)



Tissue Reference: Woodard HQ, White DR. The composition of body tissues. Br J Radiol. 1986.

General indications

- The phantom is made of a cellulose-polymer composite material with properties similar to hardwood. If handled carefully, it will last a long time.
- The phantom is coated with a protective layer. If the protective layer is undamaged, the phantom can be cleaned using a damp cloth (water or mild detergent).
- Protect from direct sunlight.
- Maintain a storage temperature of 10 °C to 30 °C. If the phantom is exposed to temperatures below -10 °C or above 45 °C, it can be severely damaged.
- The phantom is not equipped for dose measurements with dosimeters and it is not suited for material characterization with dual energy CT.
- The phantom is not certified as medical device.
- Abdominal air voids are filled with cellulosepolymer composite of approx. -80 HU.
- Lesion contrasts can slightly vary due to the anatomical phantom structure.

Phantom based on modified data, originally from Roth H, et al. (2015). A new 2.5 D representation for humph hadd datastics in CT (Data set). The Cancer Imagine Archive Licensed under CC BV 2.0

PhantomX GmbH Schwedenstr. 14, 13357 Berlin

www.phantomx.de