Article Number
PX0203548

Made in Germany

ABDOMEN PHANTOM PV LIVER METASTASES

Age Category	Adult
Body Region	Abdomen
Target Modality	CT
Diagnostic Features	Pancreatic mass, liver metastases

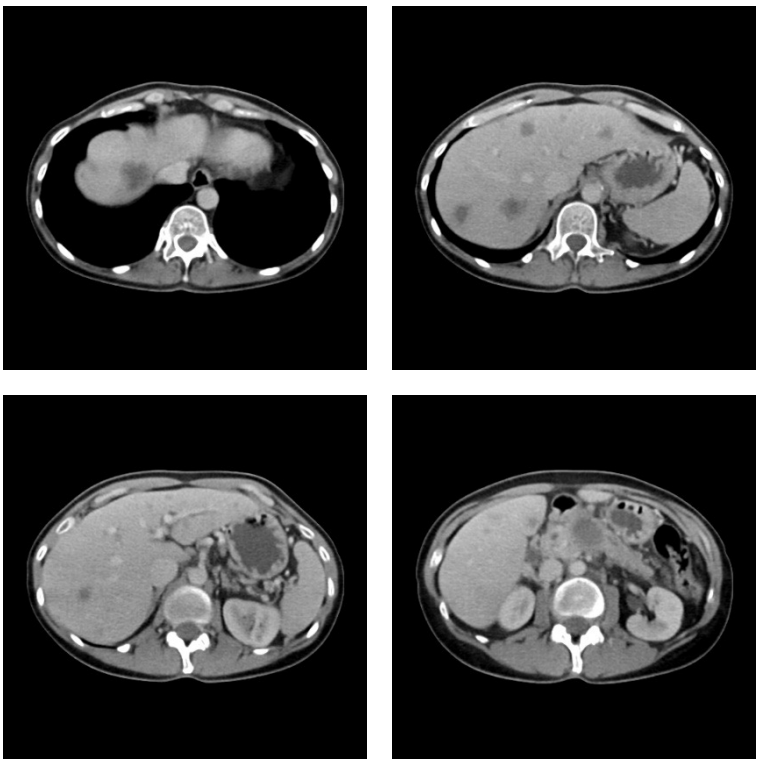


This phantom simulates a contrast medium enhanced abdomen in portal venous phase. It covers the twelfth thoracic vertebra to the fourth lumbar vertebra (partially included).

The phantom has a pancreatic mass, lymphadenopathy and typical liver metastases of different sizes and contrasts to the surrounding liver.

The phantom can be used in CT (including CBCT) to evaluate and optimize imaging performance and post-processing applications, including AI-enabled applications. It is also suited for training purposes.

The phantom provides a detailed and realistic simulation of soft and bone tissue. Air voids are filled with a cellulose-polymer composite of approx. -160 HU.



PhantomX GmbH
Schwedenstr. 14, 13357 Berlin

www.phantomx.de

Mail: info@phantomx.de
Tel: +49 (0)30 6407 9970

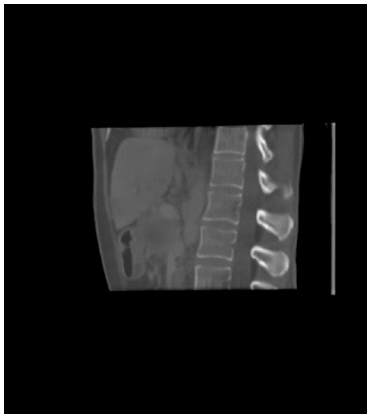
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Specifications

Size	Approx. 268 x 180 x 139 mm 10.6 × 7.1 × 5.5 in
Weight	Approx. 4600 g 10.2 lb
Base material	Cellulose-polymer composite
Optimal tube voltage	120 kVp [cf page 3] - adaptable upon request -

Diagnostic features

Realistic simulation of vasculature, bone and soft tissues, including the liver, pancreas, spleen, adrenals, kidneys, stomach and colon.

- Pancreatic mass
- Lymphadenopathy
- Liver metastases

For more information visit
www.phantomx.de

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General indications

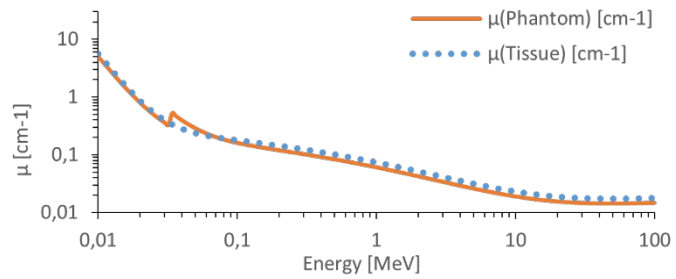
- The phantom is made of a cellulose-polymer composite material with properties similar to hardwood. If handled carefully, it will last a long time.
- The phantom is coated with a protective layer. If the protective layer is undamaged, the phantom can be cleaned using a damp cloth (water or mild detergent).
- 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.
- Air voids are filled with cellulose-polymer composite of approx. -160 HU.
- Handle with care to prevent injury or damage.
- If external damage is observed, it is recommended to consult PhantomX.

Phantom based on modified data, originally published by National Cancer Institute Clinical Proteomic Tumor Analysis Consortium (CPTAC). The Clinical Proteomic Tumor Analysis Consortium Pancreatic Ductal Adenocarcinoma Collection (CPTAC-PDA). The Cancer Imaging Archive (2018) DOI: 10.7937/K9/TCIA.2018.SC20FO18 (CC BY 3.0)

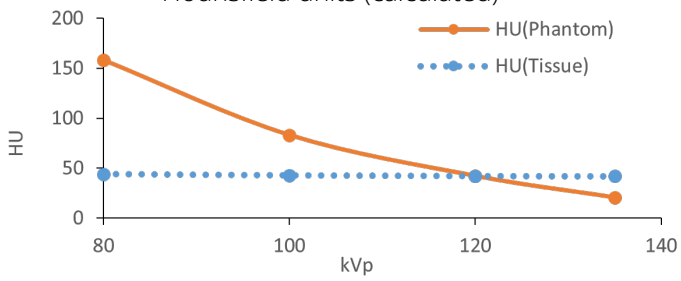
Attenuation properties

Soft Tissue

Linear attenuation coefficients [cm^{-1}] (calculated)

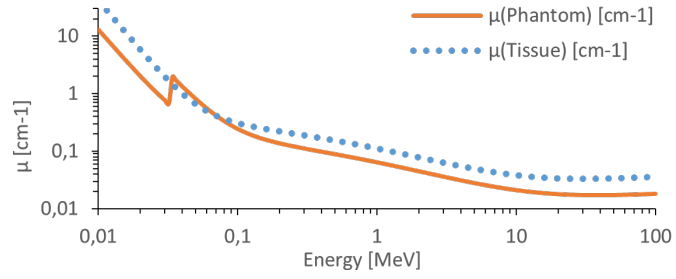


Hounsfield units (calculated)

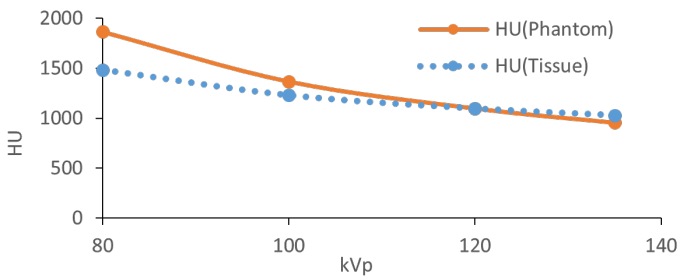


Bone Tissue

Linear attenuation coefficients [cm^{-1}] (calculated)



Hounsfield units (calculated)



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

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