Article Number
PX0203445

Made in Germany

# ABDOMEN / PELVIS PHANTOM NATIVE

| | |
|---|---|
| Age Category | Adult |
| Body Region | Abdomen, pelvis |
| Target Modality | CT |
| Diagnostic Features | Pancreas mass, liver lesions |

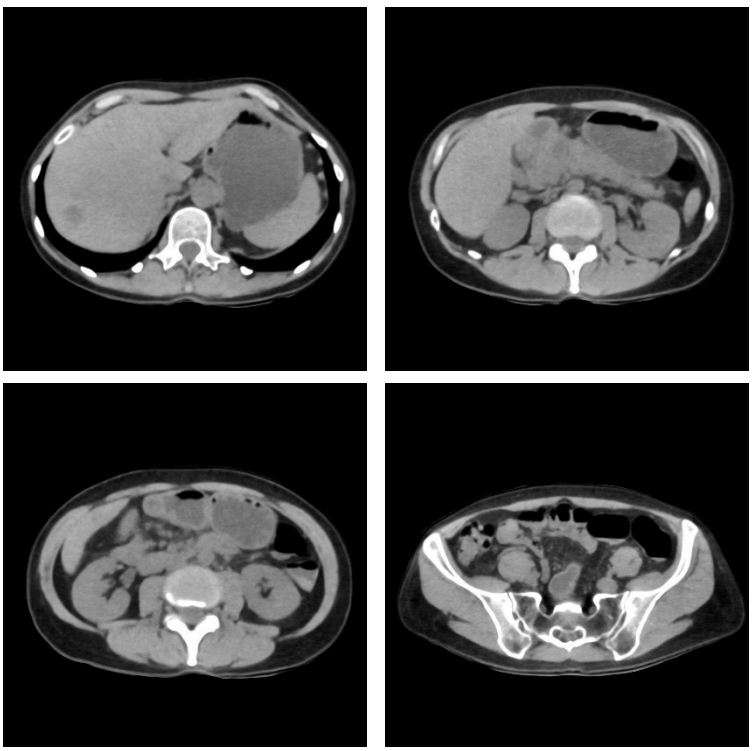


This phantom simulates an abdomen and pelvis without intravenous contrast (native). It covers the first lumbar vertebra to the perineum.

It has a pancreatic mass and liver lesions.

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.



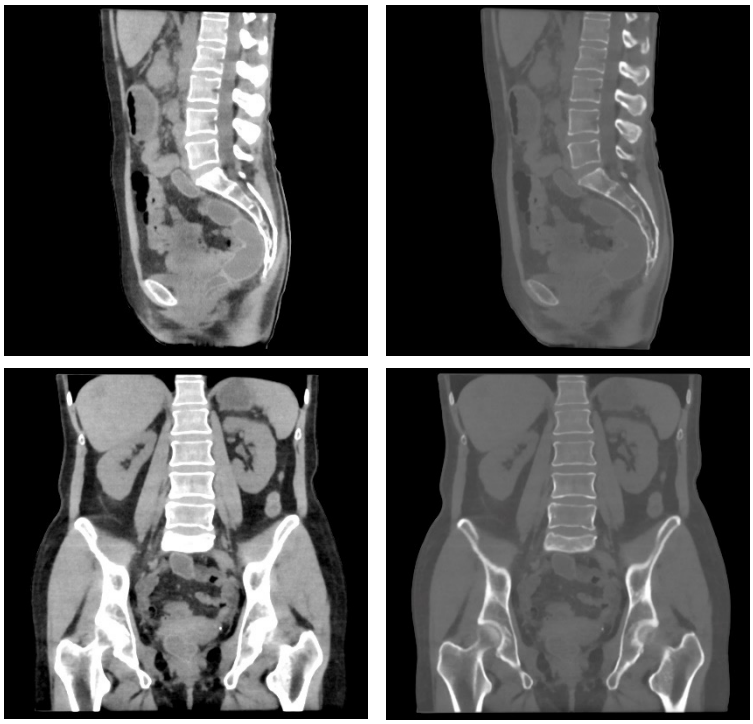
PhantomX GmbH
Schwedenstr. 14, 13357 Berlin

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# ABDOMEN / PELVIS PHANTOM NATIVE





## Specifications

| | |
|---|---|
| Size | Approx. 266 x 163 x 284 mm<br>10.5 × 6.4 × 11.2 in |
| Weight | Approx. 6800 g<br>15.0 lb |
| Base material | Cellulose-polymer composite |
| Optimal tube voltage | 120 kVp [cf page 3]<br>- adaptable upon request - |

## Diagnostic features

Realistic simulation of bone and soft tissues, including the liver, gallbladder, pancreas, spleen, adrenals, kidneys, stomach, small intestine, colon and bladder.

- Panreatic mass.
- Liver lesions.

For more information visit
www.phantomx.de

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## General indications

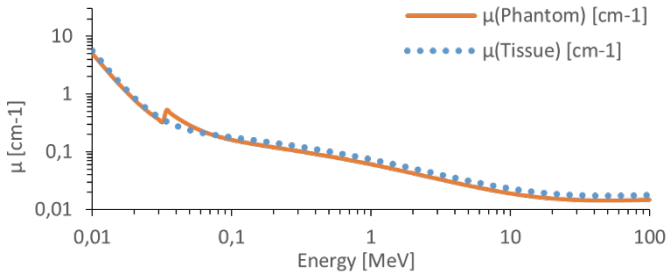
- The phantom is made of a cellulose-polymer composite material with properties similar to hardwood. If handled carefully, it will last a long time.
- The phantom is coated with a protective layer. If the protective layer is undamaged, the phantom can be cleaned using a damp cloth (water or mild detergent).
- 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)

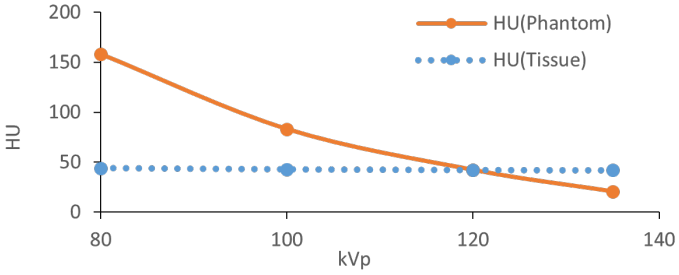
## Attenuation properties

### Soft Tissue

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

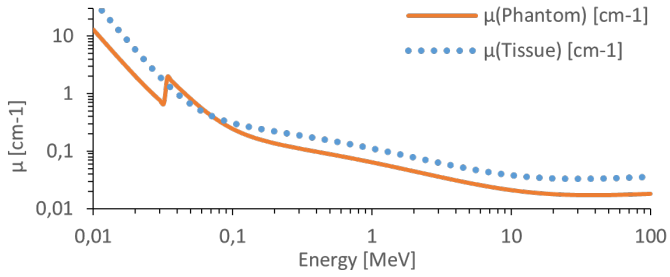



Hounsfield units (calculated)

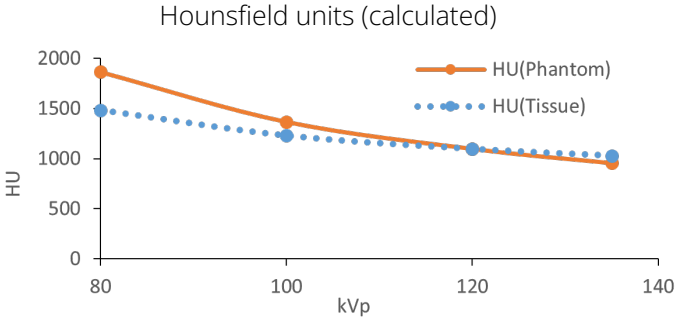



### Bone Tissue

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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