

Age Category

Adult

Body Region

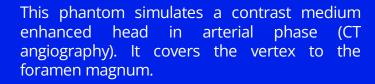
Head

Target Modality

CT

Diagnostic Features

Brain aneurysms



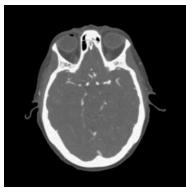
The phantom has three intracranial aneurysms of the middle cerebral artery (MCA), anterior communicating artery (ACoA), and the basilar artery.

The phantom can be used in CT (including CBCT) to evaluate and optimize imaging performance and Al-enabled diagnosis. It is also suited for training purposes.

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







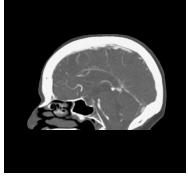












Specifications

Size Approx. 191 x 218 x 150 mm

Weight Approx. 2680 g

Base material Cellulose-polymer composite

Optimal 120 kVp (cf page 5)

tube voltage - adaptable upon request -

Diagnostic features

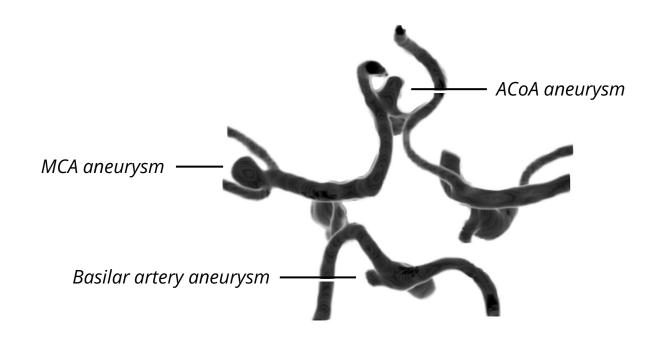
Realistic simulation of head vessels, bone and soft tissues.

Aneurysms:

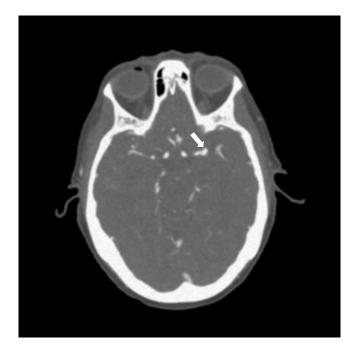
- Middle cerebral artery (MCA) left side
- Anterior communicating artery (ACoA) left side
- Basilar artery left side

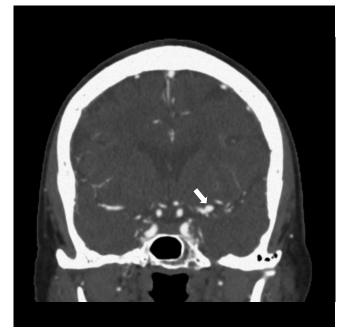
For more information visit www.phantomx.de



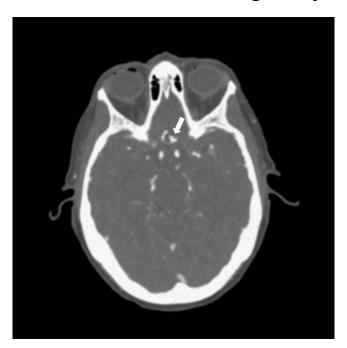


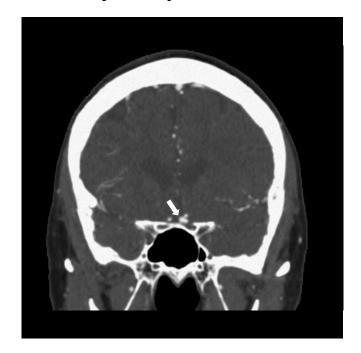
Middle cerebral artery (MCA) aneurysm (left side)





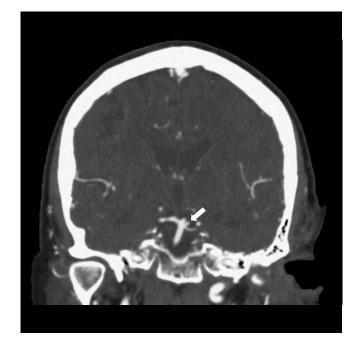
Anterior communicating artery (ACoA) aneurysm (left side)





Basilar artery aneurysm (left side)



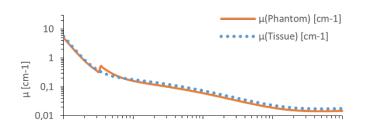


0,01

General indications

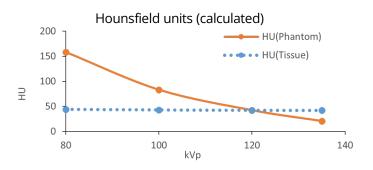
- The phantom is made of a cellulose-polymer composite material with properties similar to hardwood. If handled carefully, it will last a long time.
- The phantom is coated with a protective layer. If the protective layer is undamaged, the phantom can be cleaned using a damp cloth (water or mild detergent).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

Attenuation properties Soft Tissue Linear attenuation coefficients [cm-1] (calculated)

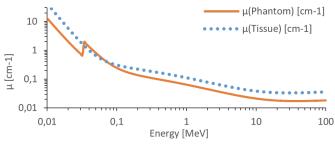


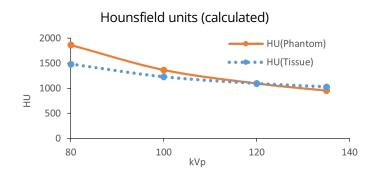
Energy [MeV]

0,1









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