

Pediatric Phantoms

Anthropomorphic thorax and abdomen phantoms in the size of an infant up to a young child. An excellent tool to validate IQ parameters or dose in a semi-anthropomorphic surrounding.

QRM-Pediatric-Phantoms providing an anthropomorphic shape of children at different age. These phantoms are giving many opportunities for realistic measurements of dose and image quality in X-ray diagnostics. The phantoms are designed to provide realistic organs and shapes and offer the physical X-ray attenuation properties of human tissues.

QRM-Pediatric-Thorax comprises artificial lung lobes, a spine insert, and shell of soft tissue equivalent material.

QRM-Pediatric-Abdomen comprises a fixed liver and spleen insert, a spine insert, and shell of soft tissue equivalent material. It is available as well in a blank version (without liver and spleen).

The plastics used in these antropomorphic phantom mimic human tissues with respect to density and X-ray attenuation characteristics of the human thorax and abdomen.

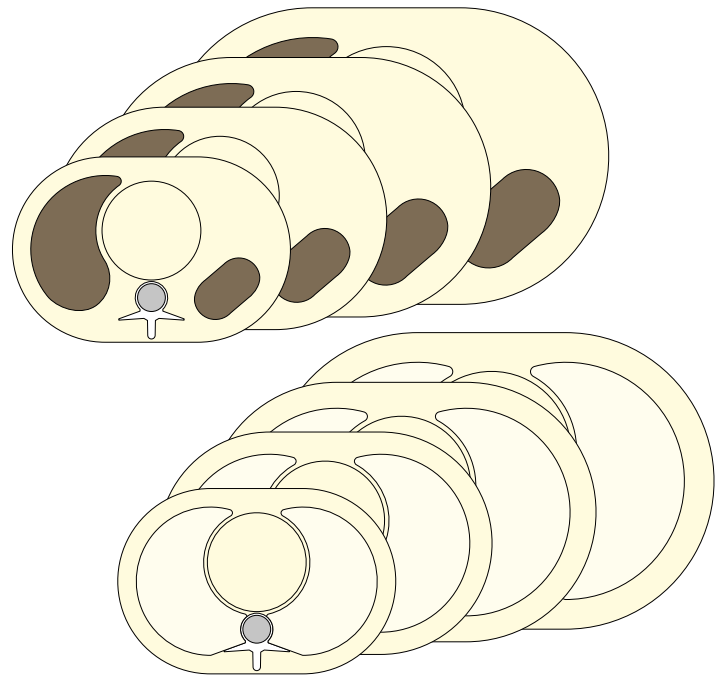
Optional available are a central bore to house an optional insert (mediastinal/stomach region).

For dosimetry purposes 5 bores to cover dose chambers are available as well. The bores are orientated as specified for CTDI measurements.

Ionization chamber adapters are available on request.



1 year, 6 years and young adult Thorax-Phantoms



Pediatric phantoms at different age and size



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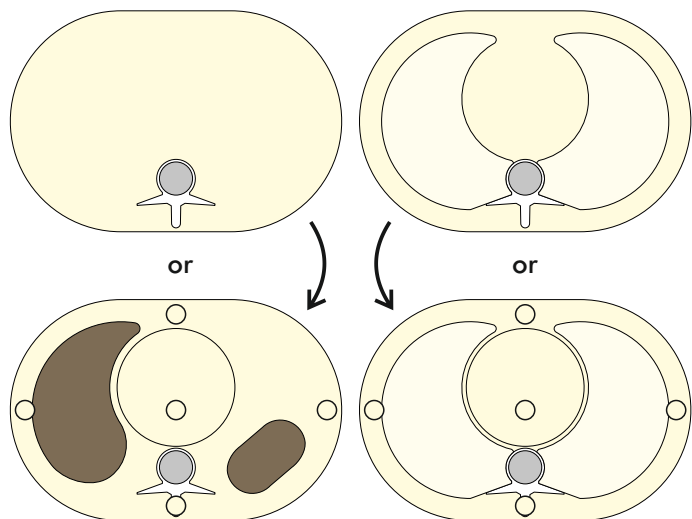
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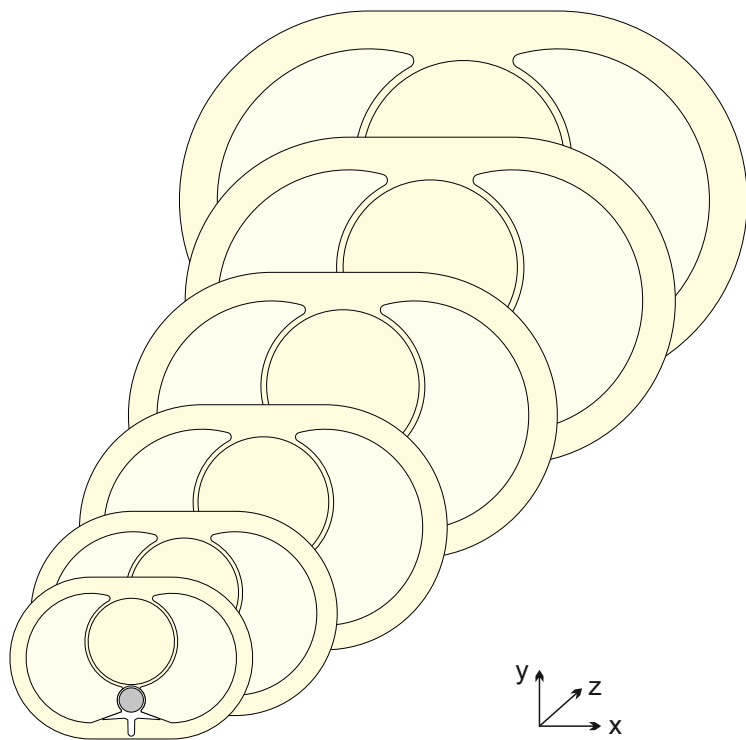
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Pediatric Phantoms



Different versions of phantoms available:
standard, additional organs, central exchangeable inserts or dose bores



different dimensions available

Specifications

Materials: tissue 35 HU (at 120 kV)
 lung app. -800 HU
 liver / spleen 60 HU (at 120 kV)
 spine bone like*

*offers attenuation properties as trabecular and cortical bone of the specific age

Measures of the phantoms:

| Thorax/ Abdomen | xy [mm] | z [mm] | circumf. [mm] | BMI |
|--------------------|------------|-----------|------------------|-----|
| Newborn | 135x90 | 150 | 330 | |
| 1 year | 150x100 | 150 | 415 | 17 |
| 3 years | 180x120 | 150 | 497 | 16 |
| 6 years | 210x140 | 150 | 580 | 16 |
| 12 years | 240x160 | 150 | 663 | 18 |
| 15 years | 270x180 | 150 | 745 | 20 |
| 18 years/ adult | 300x200 | 100 | 828 | 21 |

Basic version of Pediatric Thorax:

- lung lobes, spine

Optional:

- dose bores
- central insert (blank)

Basic version of Pediatric Abdomen

- spine

Optional:

- organs (liver/spleen)
- dose bores
- central insert (blank)