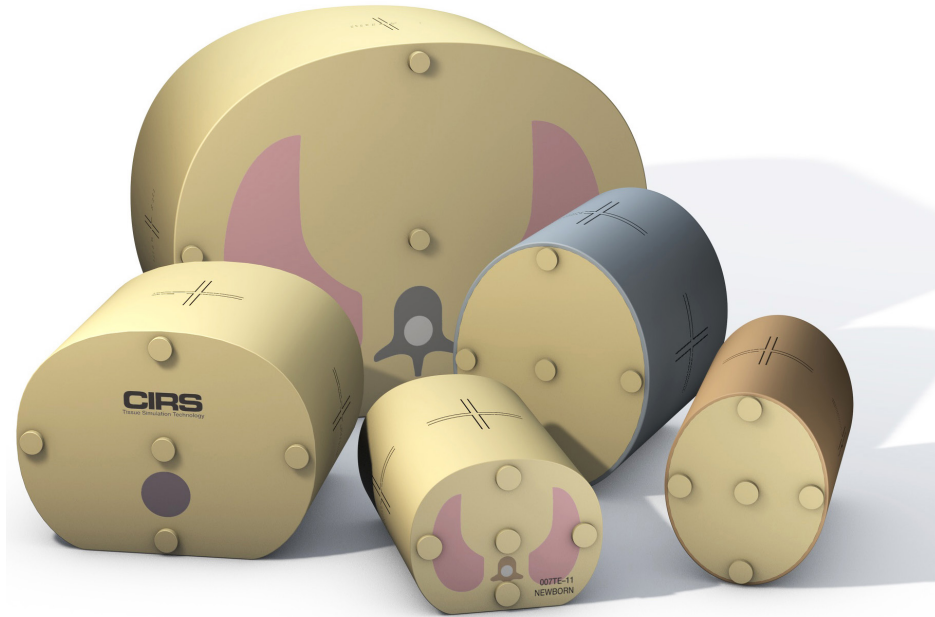


# Tissue Equivalent CT Dose Phantoms

Model 007TE



## ACCURATE SIZE-SPECIFIC DOSE MEASUREMENTS

The CIRS Tissue Equivalent CT Dose Phantoms are designed to more accurately simulate the patient's anatomy in the range of sizes from small infants to large adult patients rendering more accurate and reliable CT dose data.

There are eight abdominal, eight thorax, and four head phantoms of different sizes/ages available.

The bodies of the phantoms are made from Plastic Water<sup>®</sup>-LR that faithfully mimic the x-ray linear attenuation and scatter properties of water within 1% in diagnostic energy.

CT dose phantoms include an embedded vertebral bone equivalent rods and external bone rings (heads) that are specifically formulated to mimic the appropriate density for patient size/age.

The thorax CT dose phantoms include vertebral bone equivalent rod and lungs. Lung equivalent material mimics inhale lung within 3% by linear attenuation.

All the phantoms have five through-holes with an inside diameter of 1.30 cm to accommodate standard CT dose probes and five tissue equivalent rods to plug the holes not in use. One hole is at center and four are around the perimeter, 90° apart and 1 cm from center to the outside edge of the phantom.

### Features

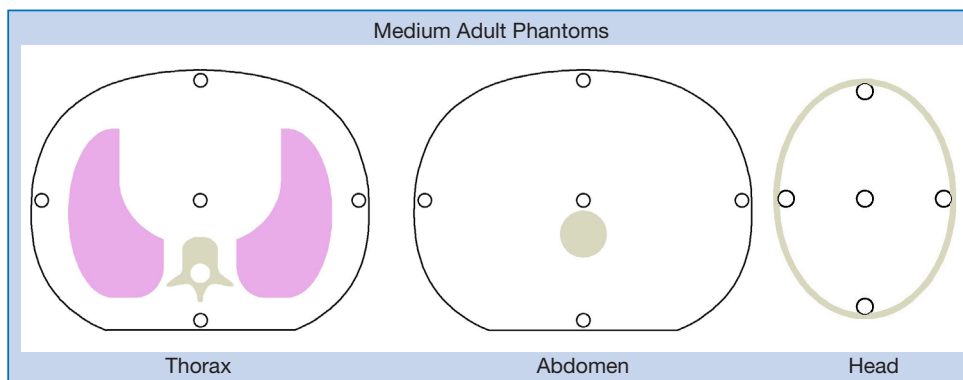
- Usable on all CT scanners
- Size-specific options, from infant to large adult
- Simulates patient head, thorax and abdominal regions
- Made from tissue equivalent epoxy
- 1.30 cm inside hole diameter sized for standard CT Dose probes

2428 Alameda Avenue Suite 316 • Norfolk, Virginia 23513 • USA  
Tel: 800.617.1177 • 757.855.2765 • Fax: 757.857.0523

[WWW.CIRSIINC.COM](http://WWW.CIRSIINC.COM)

**CIRS**

Tissue Simulation & Phantom Technology



**SPECIFICATIONS**

**THORAX & ABDOMINAL PHANTOM**

MODEL NO.	AGE GROUP	PA DIAMETER	LR DIAMETER	THICKNESS
007TE-01	Abdominal-Newborn	9.0 cm	10.5 cm	15.0 cm
007TE-02	Abdominal-1 year old	11.5 cm	14.0 cm	15.0 cm
007TE-03	Abdominal-5 year old	14.0 cm	18.0 cm	15.0 cm
007TE-04	Abdominal-10 year old	16.0 cm	20.5 cm	15.0 cm
007TE-05	Abdominal-15 year old	18.5 cm	24.0 cm	15.0 cm
007TE-06	Abdominal-Small Adult	22.0 cm	30.0 cm	15.0 cm
007TE-07	Abdominal-Medium Adult	25.0 cm	32.5 cm	15.0 cm
007TE-08	Abdominal-Large Adult	31.0 cm	38.9 cm	15.0 cm
007TE-11	Thorax-Newborn	9.0 cm	10.5 cm	15.0 cm
007TE-12	Thorax-1 year old	11.5 cm	14.0 cm	15.0 cm
007TE-13	Thorax-5 year old	14.0 cm	18.0 cm	15.0 cm
007TE-14	Thorax-10 year old	16.0 cm	20.5 cm	15.0 cm
007TE-15	Thorax-15 year old	18.5 cm	24.0 cm	15.0 cm
007TE-16	Thorax-Small Adult	22.0 cm	30.0 cm	15.0 cm
007TE-17	Thorax-Medium Adult	25.0 cm	32.5 cm	15.0 cm
007TE-18	Thorax-Large Adult	31.0 cm	38.9 cm	15.0 cm

**HEAD PHANTOM**

MODEL NO.	AGE GROUP	PA DIAMETER	LR DIAMETER	THICKNESS
007TE-21	Head-Newborn	12.0 cm	9.5 cm	15.0 cm
007TE-22	Head-1 year old	16.0 cm	12.0 cm	15.0 cm
007TE-23	Head-5 year old	17.0 cm	13.5 cm	15.0 cm
007TE-27	Head-Medium Adult	19.0 cm	14.5 cm	15.0 cm

**PHANTOM MATERIAL SPECIFICATIONS**

DESCRIPTION	PHYSICAL DENSITY, G/CC	ELECTRON DENSITY, 1/CC
BONE ADULT & 15 YEARS	1.60	5.030 · 10 <sup>23</sup>
BONE NEWBORN	1.41	4.498 · 10 <sup>23</sup>
BONE 1 YEAR	1.45	4.606 · 10 <sup>23</sup>
BONE 5 YEARS	1.52	4.801 · 10 <sup>23</sup>
BONE 10 YEARS	1.56	4.878 · 10 <sup>23</sup>
PLASTIC WATER®-LR	1.029	3.333 · 10 <sup>23</sup>
LUNG INHALE	0.205	0.668 · 10 <sup>23</sup>

**MODEL 007TE INCLUDES**

QTY	DESCRIPTION
1	Tissue Equivalent CT Dose Phantom Body
5	Tissue Equivalent Rods

WEIGHT:	
007TE-01	1.2 kg (2.7 lb)
007TE-02	2.3 kg (4.9 lb)
007TE-03	3.4 kg (7.5 lb)
007TE-04	4.4 kg (9.7 lb)
007TE-05	5.9 kg (13.1 lb)
007TE-06	8.9 kg (19.5 lb)
007TE-07	11 kg (24 lb)
007TE-08	16 kg (35.6 lb)
007TE-11	1 kg (2.1 lb)
007TE-12	1.7 kg (3.7 lb)
007TE-13	2.7 kg (5.9 lb)
007TE-14	3.5 kg (7.7 lb)
007TE-15	4.7 kg (10.3 lb)
007TE-16	7.1 kg (15.8 lb)
007TE-17	8.6 kg (19 lb)
007TE-18	13 kg (28.4 lb)
007TE-21	2.8 kg (6 lbs.)
007TE-22	4.7 kg (10 lbs)
007TE-23	5.6 kg (12 lbs.)
007TE-27	6.7 kg (15 lbs.)
<b>MATERIALS:</b>	Tissue Equivalent epoxy materials

**ADDITIONAL OPTIONS**

PART NO.	DESCRIPTION
700-QA	CT Imaging QA Kit for ATOM® & CT Dose Phantoms

