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**JRT Associates**

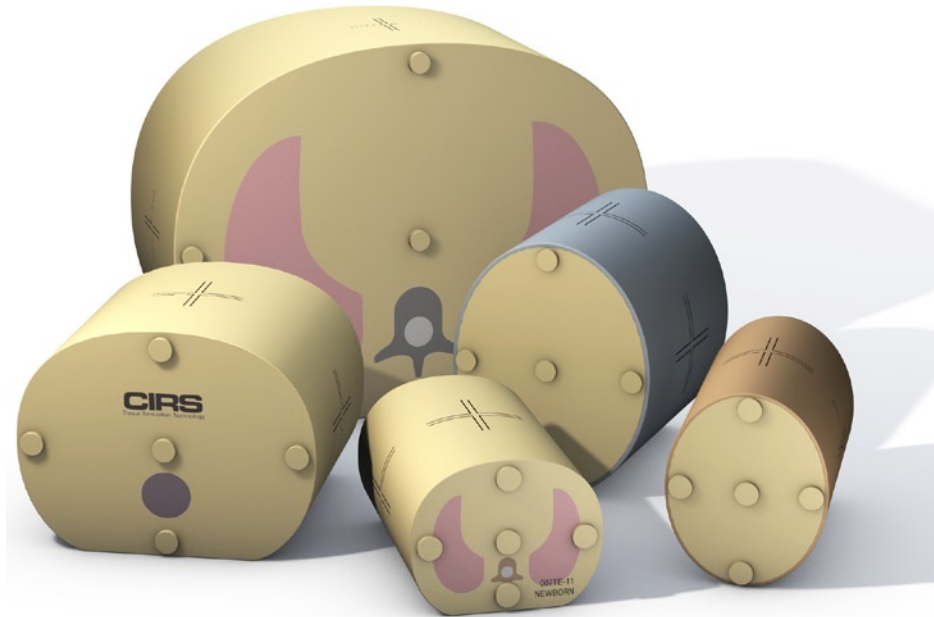
5 Nepperhan Avenue, Suite 2B

Elmsford, NY 10523

800-221-0111

# Tissue Equivalent CT Dose Phantoms

Model 007TE



## ACCURATE DOSE MEASUREMENTS FOR INFANTS TO LARGE ADULTS

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 proprietary epoxy formulations that faithfully mimic the X-ray absorption and scatter properties of soft tissue or water within 1% in the diagnostic energy range.

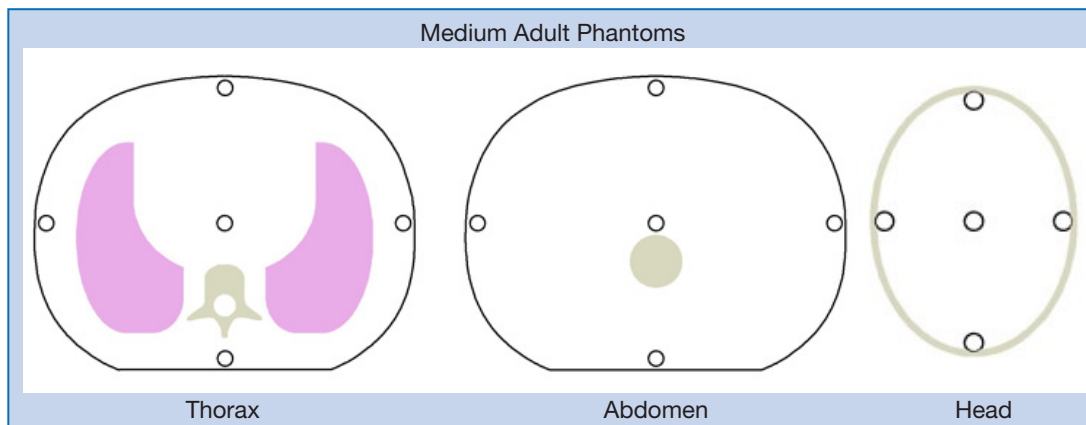
Each CT dose phantom includes an embedded vertebral bone equivalent rod that is specifically formulated to mimic the appropriate density for patient size/age.

The thorax CT dose phantoms include vertebral bone equivalent rod and lungs. The head CT dose phantoms are wrapped with a bone equivalent layer to represent cranium bone formulated for appropriate patient size / age.

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
- Simulates infant to large adult patients
- Simulates head, thorax and abdominal regions
- Made from tissue equivalent epoxy
- 1.30 cm inside hole diameter sized for standard CT Dose probes



**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

**MODEL 007-TE INCLUDES**

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

WEIGHT:	
	007TE-01 - 0.7 kg (2 lbs.)
	007TE-02 - 1.5 kg (3 lbs.)
	007TE-03 - 4.1 kg (9 lbs.)
	007TE-04 - 5.2 kg (11 lbs.)
	007TE-05 - 3.7 kg (8 lbs.)
	007TE-06 - 8.2 kg (18 lbs.)
	007TE-07 - 8.6 kg (19 lbs.)
	007TE-08 - 13.4 kg (30 lbs.)
	007TE-11 - 1.46 kg (3 lbs.)
	007TE-12 - 1.5 kg (3 lbs.)
	007TE-13 - 4.1 kg (9 lbs.)
	007TE-14 - 5.2 kg (11 lbs.)
	007TE-15 - 3.7 kg (8 lbs.)
	007TE-16 - 8.2 kg (18 lbs.)
	007TE-17 - 8.6 kg (19 lbs.)
	007TE-18 - 13.4 kg (30 lbs.)
	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.)
MATERIALS:	Tissue Equivalent epoxy materials

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