The CIRS Ultrasound Prostate Training Phantom is a multi-modality disposable phantom developed for practicing procedures which involve scanning the prostate with a rectal probe. Gel formulations within the Model 053S, 053L and 053L-EF are designed to minimize needle tracking and to provide imaging contrast under CT, MRI, ultrasound and elastography.

The prostate along with structures simulating the rectal wall, seminal vesicles and urethra is contained within an 11.5 x 7.0 x 9.5 cm clear acrylic container. A 3 mm simulated perineal membrane enables various probes and surgical tools to be inserted into the prostate. This phantom is an ideal training device for ultrasound guided cryosurgery, radioactive seed implantation, and needle biopsy.

The phantom is available with lesions (053L) and without lesions (053S) and can be ordered in either the standard side-fire configuration or an alternate geometry optimized for end-fire probes (053L-EF).

**Features**

- Includes rectal wall, seminal vesicles, perineal membrane and urethra
- Train for ultrasound-guided cryosurgery, seed implantation and needle biopsy with one phantom
- Compatible with various probes and surgical tools
- Structures visible under CT, MRI, ultrasound and elastography
- Gel designed to minimize needle tracking
TISSUE EQUIVALENT ULTRASOUND PROSTATE PHANTOM

Model 053S, 053L & 053L-EF

SPECFICATIONS

CONTAINER
Dimensions: 11.5 x 7 x 9.5 cm
Weight: 2 lbs
Front probe opening: 3.2 cm Ø
Rear probe opening: 2.6 cm Ø

BACKGROUND GEL
Ultrasound appearance: anechoic
CT appearance: dark
MRI appearance: dark (T1 weighted)
Elastography: soft

URETHRA
Dimensions: 7 mm Ø
Ultrasound appearance: anechoic
CT appearance: dark, similar to prostate
MRI appearance: dark than prostate (T1 weighted)
Elastography: stiffer than prostate

PROSTATE
Dimensions: 5 cm x 4.5 cm x 4 cm
Ultrasound appearance: average echogenicity
CT appearance: dark, slight contrast with background
MRI appearance: bright (T1 weighted)
Elastography: soft, slight contrast with background
Volume: 53 cc

SEMINAL VESICLES
Dimensions: 7 mm Ø x 10 cm long
Imaging appearance is similar to prostate

PERINEAL MEMBRANE
3 mm thick Z-skin™ elastomer

LESIONS (053L AND 053L-EF)
Qty: 3
Dimensions: Approximately 10 mm Ø
Ultrasound appearance: hypoechoic
CT appearance: bright
MRI appearance: dark (T1 weighted)
Elastography: stiff

RECTAL WALL
Dimensions: 6 cm x 11 cm x 0.5 cm
Imaging appearance is similar to urethra

MODEL 053 INCLUDES
Tissue Equivalent Ultrasound Prostate Phantom
User Guide
12-Month Warranty*

*Please note: once any device has been inserted into the phantom (such as biopsy needles, localization wires, etc.) the 12 month warranty will not cover claims related to material desiccation or needle desiccation.

PROSTATE PHANTOM SELECTION GUIDE

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