

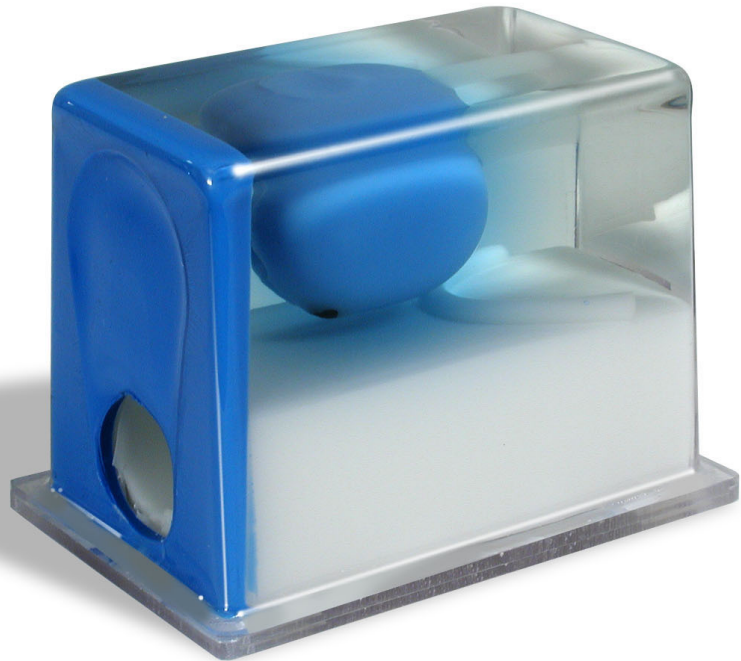
Tissue Equivalent Ultrasound Prostate Phantom

The ideal training device for ultrasound guided procedures

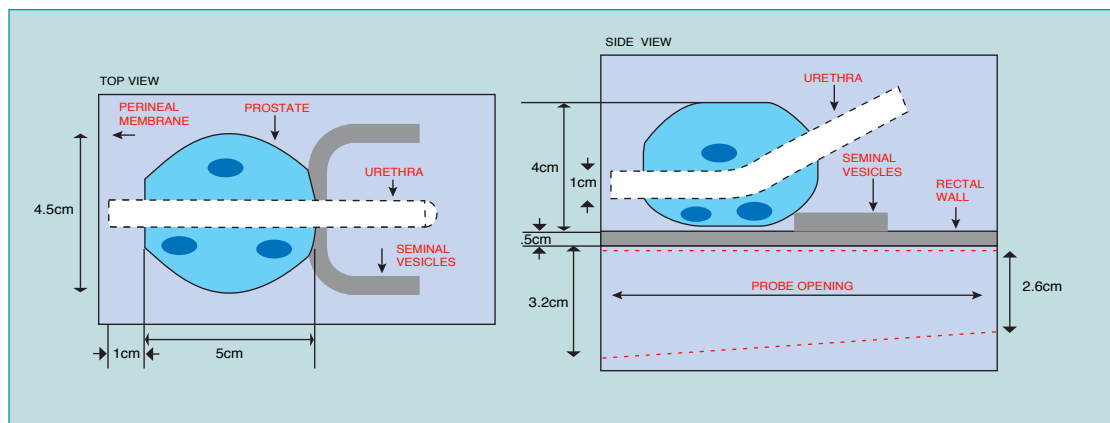
The CIRS Model 053 Ultrasound Prostate Training Phantom is a disposable phantom developed for practicing procedures which involve scanning the prostate with a rectal probe.

The prostate along with structures simulating the rectal wall, seminal vesicles and urethra is contained within an 11.5 cm X 7.0 cm 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.



Model 053 (option A shown)



Model 053 Specifications:

CONTAINER:

Material: Clear acrylic
 Dimensions: 11.5 cm X 7.0 cm X 9.5 cm
 Front probe opening:
 3.2 cm diameter
 Rear probe opening:
 2.6 cm diameter

PERINEAL MEMBRANE:

4.5 cm diameter
 3 mm thick urethane

BACKGROUND GEL:

Similar to water with very little
 backscatter attenuation
 ≤ 0.07 db/cm/MHz

URETHRA:

Dimensions: 0.7 cm diameter
 Material: Zerdine[®](1), low scatter

SEMINAL VESICLES:

Dimensions: 7 mm diameter X 10 cm
 long
 Material: Zerdine[®](1)
 Properties: Speed=1540 m/s
 Attenuation= 0.5 dB/cm/MHz
 Backscatter similar to liver tissue

PROSTATE:

Dimensions: 5 cm X 4.5 cm X 4.0 cm
 Material: Blue Zerdine[®](1), high
 scatter
 Volume: approximately 53 cc

RECTAL WALL:

Dimensions: 6 cm X 11 cm X 0.5 cm
 Material: Zerdine[®](1)
 Properties: Speed=1540 m/s
 Attenuation= 0.5 dB/cm/MHz
 Backscatter similar to liver tissue

VERSIONS AVAILABLE:

053A - 3 Embedded lesion 0.5 cc
 +/- hypochoic unless otherwise
 specified. (Ideal for needle biopsy)

053A-EF - For end fire transducers
 See data sheet for Model 053A-EF

053D - Semi-clear prostate allows
 visualization of seed placement.

053F - Hollow urethra for catheter-
 insertion.

053G - Oil based prostate gel for
 minimal needle tracks.

053I - Seed implant version-see
 data sheet for Model 053-I



MODEL 053



MODEL 053A-Lesion Shown

(1) US Patent # 5196343