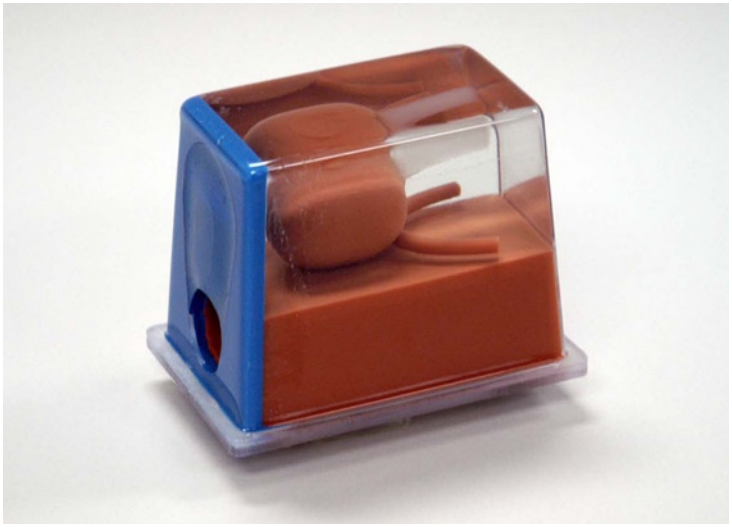
Multi-Modality Prostate Training Phantom

The ideal training device for ultrasound/ CT/and MRI guided procedures

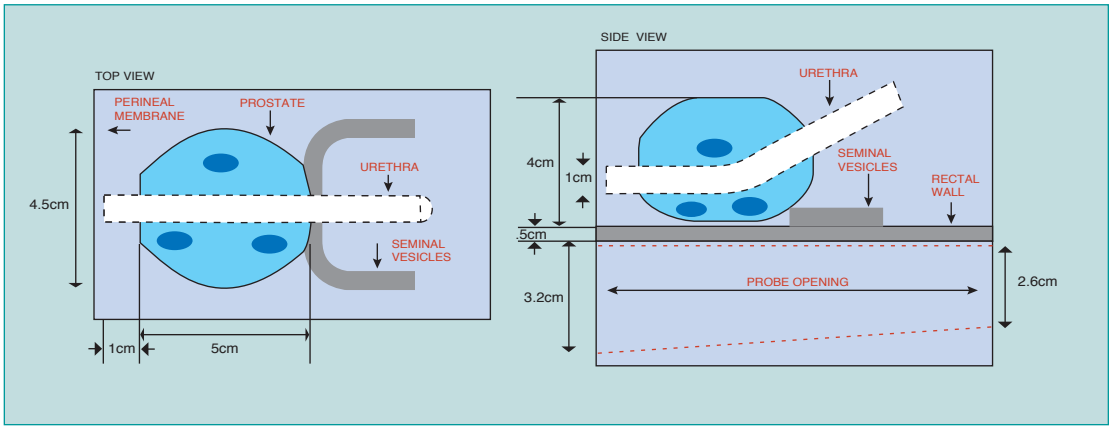
The CIRS Model 053-MM Multi-Modality Prostate Training Phantom is a disposable phantom developed for practicing procedures which involve scanning the prostate under ultrasound, CT or MRI.

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 any interventional prostate procedure guided by ultrasound, CT or MRI.



Model 053-MM



Tissue Simulation & Phantom Technology

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Model 053-MM Specifications:

CONTAINER:
Material: Clear acrylic
Dimensions: 11.5 x 7.0 x 9.5 cm
Front probe opening: 3.2 cm Ø
Rear probe opening: 2.6 cm Ø

PERINEAL MEMBRANE:
4.5 cm Ø 3 mm thick urethane

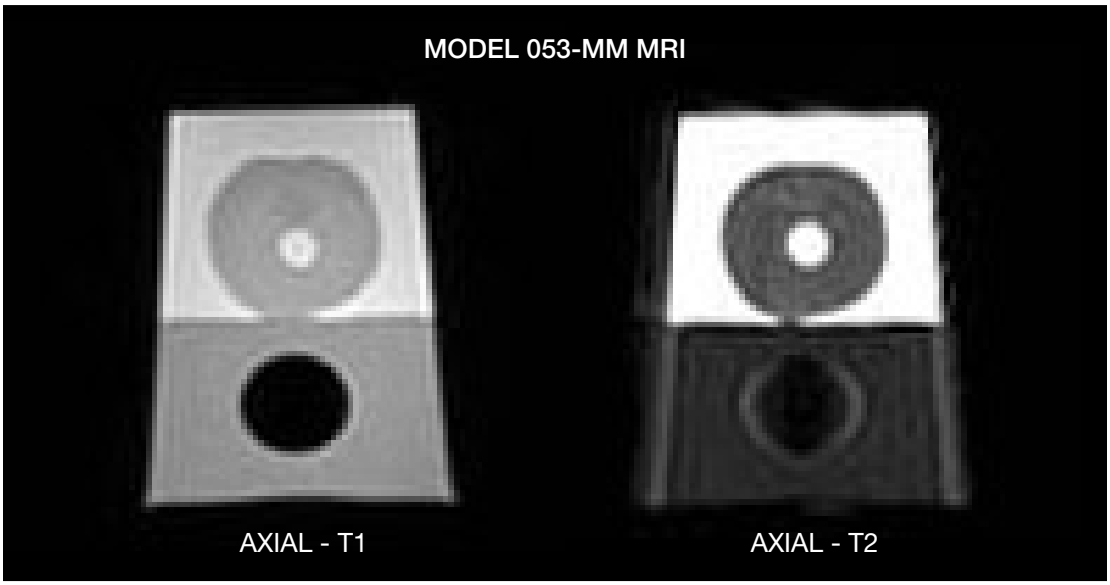
BACKGROUND GEL:
Similar to water with very little backscatter attenuation
≤ 0.07 db/cm-MHz

URETHRA:
Dimensions: 0.7 cm Ø
Material: Zerdine® [1], low scatter

SEMINAL VESICLES:
Dimensions: 7 mm Ø 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 x 4.5 x 4.0 cm
Material: Blue Zerdine® [1], high scatter
Volume: approximately 53 cc

RECTAL WALL:
Dimensions: 6 x 11 x 0.5 cm
Material: Zerdine® [1]
Properties: Speed=1540 m/s
Attenuation= 0.5 dB/cm-MHz
Backscatter similar to liver tissue



[1] US Patent # 5196343