

SBRT phantom

Ensure target localization
and patient repositioning

NEW
GENERATION

Suitable for plan adaptation in MR-Linac



QA in SBRT treatments

End-to-End QA

SBRT requires precise target localization, patient immobilization, and frequent positioning checks to avoid significant dose deposition in critical organs at risk. SBRT phantom by offering dosimetry options within the lung area and vertebrae/bone is an ideal End-to-End QA tool for radiosurgical body treatments.

Enhanced anatomical & imaging fidelity

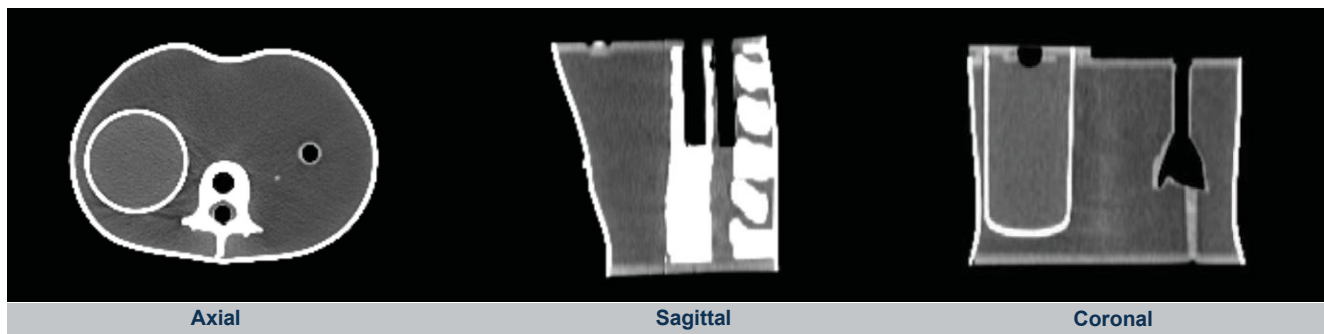
SBRT phantom is an anthropomorphic 3D-printed phantom that simulates the anatomy of an abdominal case. Advanced multi-material manufacturing enables distinct bone and skin CT characteristics. Realistic bone and soft-tissue contrast in both CT and MR imaging, makes SBRT phantom an excellent tool for online adaptation of advanced SBRT techniques.

Accurate localization

SBRT phantom is positioned, imaged and treated following the clinical workflow, supporting the evaluation of target localization and patient positioning in advance SBRT techniques.

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Specifications

MODEL INCLUDES

QTY	DESCRIPTION
1	3D printed SBRT phantom filled with water by the user. Dimensions: (X,Y,Z) = (234,6 mm, 167,4 mm, 166,9 mm). HUs at 120 kVp, for: Bone structures: -750; Skin: -250
2	Ion chamber/diode/diamond detector insert fixed position in vertebrae: plug of Ø12mm, material PMMA
1	Ion chamber/diode/diamond detector Variable Position dosimetry insert: plug of Ø12mm and user-defined depths, material PMMA
1	Film dosimetry cassette* with 4 pins for registration purposes in 2 different orientations; sagittal or coronal: 80 mm x 145 mm (inner dimensions: 70 mm x 145 mm), material RW3
1	Gel dosimetry insert** (empty): Cylinder of 160 mm height and Ø 80 mm (inner dimensions: 140 mm x Ø 74 mm), material PMMA or glass
1	24-month warranty
1	User manual

*: Can be combined with remote 2D dosimetry service

**: Can be combined with remote 3D dosimetry service

OPTIONAL ACCESSORIES

QTY	DESCRIPTION
1	OSL dosimetry cassette*** with a 4 mm resolution cross design of 17 pockets for OSL dosimeters in 2 different orientations; sagittal or coronal: 80 mm x 145 mm (inner dimensions: 70 mm x 145 mm) with 4 acrylic rods (5 mm diameter, 10 mm height) for registration purposes, material RW3
1	Exchangeable lung insert: plug of Ø12mm. It can accommodate Ion chamber/diode/diamond detector inside.
1	Winston Lutz test insert with central & offset targets: 120 mm plug of Ø 2 mm (Ø 5 mm targets), material PMMA
1	MRI-related geometric distortions evaluation insert: Cylinder of 160 mm height and Ø 80 mm (10 mm x 10 mm x 10 mm 3D grid design, 36 in-plane x 13 planes in z-direction control points), material PMMA
1	SGRT Positioning check insert with 5 metal spheres of Ø 5 mm at pre-defined positions, material PMMA

***: Can be combined with remote point dosimetry service