

Phantom Patient for Stereotactic End-to-End Verification

Model 038

STEEV
STEREOTACTIC END-TO-END VERIFICATION



HIGH FIDELITY SIMULATION FOR YOUR SRS PROGRAM

SRS commissioning and treatment verification

Stereotactic Radiosurgery (SRS) necessitates a high degree of accuracy in target localization and dose delivery. Small errors can result in significant under treatment of portions of the tumor volume and overdose of nearby normal tissues. The CIRS Stereotactic End-to-End Verification Phantom (STEEV) provides a means to check all necessary steps of a treatment planning system — from diagnostic imaging with CT, MR and PET, to treatment plan verification..

Accurate patient simulation

STEEV's anthropomorphic exterior allows for use of multiple positioning and fixation devices as used in clinical application. Internal details such as cortical and trabecular bone, brain, spinal cord, teeth, sinuses and trachea provide the most realistic clinical simulation to evaluate the challenging effects of complex intra- and extra-cranial anatomies. Geometric and organic target inserts provide means for comprehensive image QA,

geometric machine QA and TPS QA for increased confidence in system performance.

Multi-modality Imaging

STEEV accommodates five interchangeable multi-modality inserts. These inserts come with a variety of internal targets and must be filled with MRI or PET compatible liquids. Five external MRI/ CT fiducials enable additional alignment and distortion evaluation along three orthogonal axes.

Dose measurements at isocenter and off isocenter positions

STEEV accommodates a variety of interchangeable tissue equivalent inserts suitable for small field dosimetry including: micro- and pinpoint ion chambers, film, MOSFET, TLD, OSL (nanoDot™*) and 3D gel. When used in conjunction with the various imaging inserts, STEEV provides the most comprehensive end-to-end testing and QA solution for SRS systems.

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