

MultiMet-WL Cube

Targeting Accuracy Check for MultiMet SRS

As clinics move toward single-isocenter multiple-met SRS treatments, more stringent off-axis QA is needed. The MultiMet-WL Cube efficiently measures targets up to 7 cm off-axis within 0.1 mm accuracy.



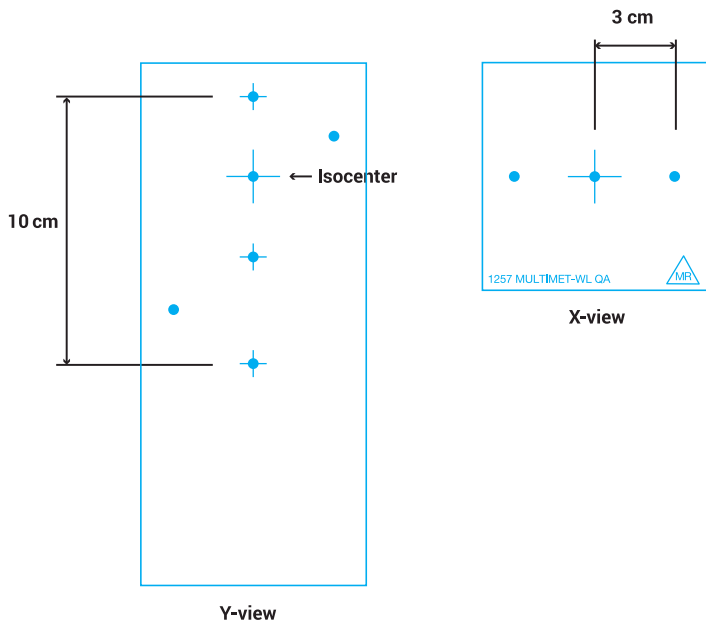
Features and Benefits

- Precise phantom with 6 spherical targets (5 mm in diameter) set at precise locations
 - Quantifiable accuracy up to 7 cm off isocenter
 - Reduced likelihood of phantom placement errors
- Surface-level cross-hair markings visible in CT imaging, easing phantom orientation and alignment to delivery system
- Compatibility with Cone, MLC or Jaw deliveries
- User-friendly software workflow
 - Extended Winston-Lutz (WL) analysis to calculate 3D locations of off-axis targets in patient frame of reference, helping identify and reduce positioning errors
 - Ability to identify source of error – Gantry, Couch or Collimator – in 6 degrees of freedom
 - Software included to automate analysis

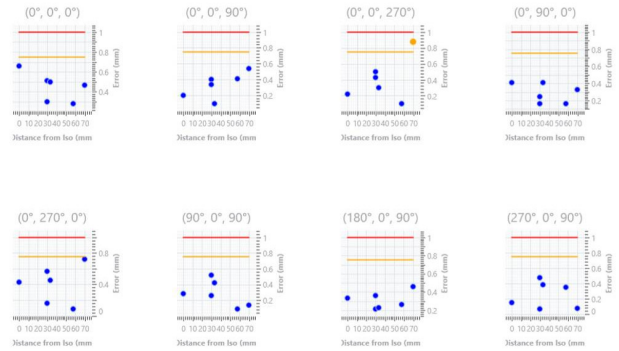


Use the MultiMet-WL Cube with StereoPHAN, or as a standalone phantom

Target Locations



Analysis Software



Off-axis Winston-Lutz tests analyzed in software to determine targeting errors

Six targets enable quantifying the margin of error up to 7 cm off-axis

Specifications

Dimensions: (cm³) 8.5 x 8.5 x 12.75

Targets: 6 (5 mm diameter) tungsten targets in specified locations

Target to Cross-hair tolerance: ± 0.1 mm

Target Material: Tungsten Carbide

Quantifiable Off-Axis Accuracy Range: Up to 7 cm

Compatibility

StereoPHAN™ Yes

Cone, MLC, & Jaw Deliveries: Yes

**Varian Medical Systems®
Trilogy™, TrueBeam®,
and Edge® Systems:** Yes

**Elekta Versa HD™
and Synergy® Systems:** Yes



"This phantom... provides a simple method to verify targeting accuracy for multiple lesions with single isocenter. Its integration with the StereoPHAN™ makes it an effective supplemental tool for end-to-end testing for SRS."

Development of a Phantom to Verify Targeting Accuracy of Single-Isocenter Multiple Lesion Stereotactic Radiosurgery, AAPM 2019

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