



IMRT Phantom *Pelvic 3D*

*Complete QA
from CT Imaging
to Dose Verification*

Long term
reputation in
the medical
industry.

Assurance we
will offer
competitive
pricing.

Customer
service #1
priority.

One Stop.

LACO Inc.

can do it all!

The CIRS Model 002PRA IMRT phantom is designed to address the complex issues surrounding commissioning and comparison of treatment planning systems and verification of individual patient plans and delivery.

The CIRS 002PRA phantom properly represents human pelvic anatomy in shape, proportion and structure as well as density. This enables thorough analysis of both the imaging and dosimetry system. The phantom is manufactured from unique proprietary materials that faithfully mimic bone and water within 1% from 50keV to 25 MeV.

The phantom is elliptical in shape, approximates the size of an average patient, and has a tissue equivalent, three dimensional skeleton. Tissue equivalent interchangeable rod inserts for ionization chambers allow for point dose measurements in multiple planes in the phantom and film calibration. The phantom also supports film dosimetry with not only standard radiographic films but also GafChromic® media. Optional inserts are available to support a variety of other detectors including TLD's, MOSFET, and diodes.

The Model 002PRA includes five different Electron Density reference plugs which can be interchanged in five separate locations within the phantom. The surface of the phantom is etched with grooves to ensure proper orientation of the CT slices and accurate film to plan registration.

Phantom Benefits

- verify heterogeneity corrections
- correlate CTU to electron density
- check dose distributions in sensitive areas
- check depth doses and absolute dose
- 2D and 3D isodoses
- verify individual patient treatment plans
- calibrate film with ion chamber