IGRT QC Set

Test objects for image quality control of MV and kV imagers at IGRT radiation treatment devices

Features

- Optimized phantoms for MV and kV beam imagers
- Measurement of all parameters with a single beam in one image

In Image Guided Radio Therapy (IGRT), most radiation treatment devices are using a kV beam to detect and correct the patient's position in the MV beam. For both beam types typically a flat panel imager is used for the image read out. To ensure a high imager quality the IGRT set contains optimized test phantoms for kV and MV imagers for consistency checks.

The EPID QC PHANTOM checks linearity, isotropy, noise, low and high contrast resolution. All test elements are focused to 100 cm focus distance, for use in 4-25 MV photon beams. A dedicated software epidSoft allows an automatic evaluation of image files acquired with the EPID QC PHANTOM. A statistic function allows following up the QC history over the whole lifetime of the imager.

The NORMI 4 FLU test object is designed for consistancy tests X-ray installation for fluoroscopy in diagnostic radiology. The test object include a structure plate with a copper step wedge for testing the dynamic range, a resolution test pattern, low contrast and detail test elements as well as a kV test area for the determination of the radiation quality. The NORMI 4 FLU structure plate allows to check all parameters in one shot. For patient simulation, a 1mm copper plate and a 30 mm PMMA is included in the set.

Ordering Information

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- epidSoft *page 70*
- EPID QC PHANTOM *page 70*
- NORMI 4 FLU *plus* Set PMMA *page 98*