

Computerised Radiography and IMRT QA

Computerised Radiography (CR) is fast becoming an invaluable tool in the Radiotherapy department. Combining convenience and flexibility with high image quality and reliability, this technology will ultimately provide a totally filmless department.

The Kodak 2000 RT CR System can digitally capture portal , verification and simulation images with a single system as well as perform image based and dose related Physics QA. The only system on the market to perform all of these functions, it can also be used in conjunction with any software tools able to accept DICOM images (eg RIT,) to capture, measure and analyse QA data on demand.

The system is designed to measure dose ranges of up to 800cGy with consistent predictability because unlike film, the scanner has a log linear response to dose. Performing to within 3% over a 2 week period, the dose response is excellent thanks to the response relationship between the CR plate and scanner and this allows the unit to perform relative and image based (star shots) Dosimetry. The system can also achieve composite relative IMRT QA results in the parallel fashion and beam-by-beam relative dose results in the perpendicular fashion to within a 4% margin, which greatly improves IMRT QA productivity. (see fig 1)

The Kodak 2000 RT CR System is distributed for Carestream Health through Oncology Imaging Systems Ltd. Centres currently using the system include the Rosemere Cancer Centre in Preston, the Clatterbridge Centre for Oncology, the Kent Oncology Centre, The Royal Marsden Hospital in Sutton and Nottingham Centre for Oncology

For more information on the KODAK 2000RT CR System please contact phil@oncologyimaging.com and to find out about all other patient positioning and immobilisation devices we provide, please contact Oncology Imaging Systems Ltd., tel. 01825 744 063 fax. 01825 749 557 sales@oncologyimaging.com www.oncologyimaging.com