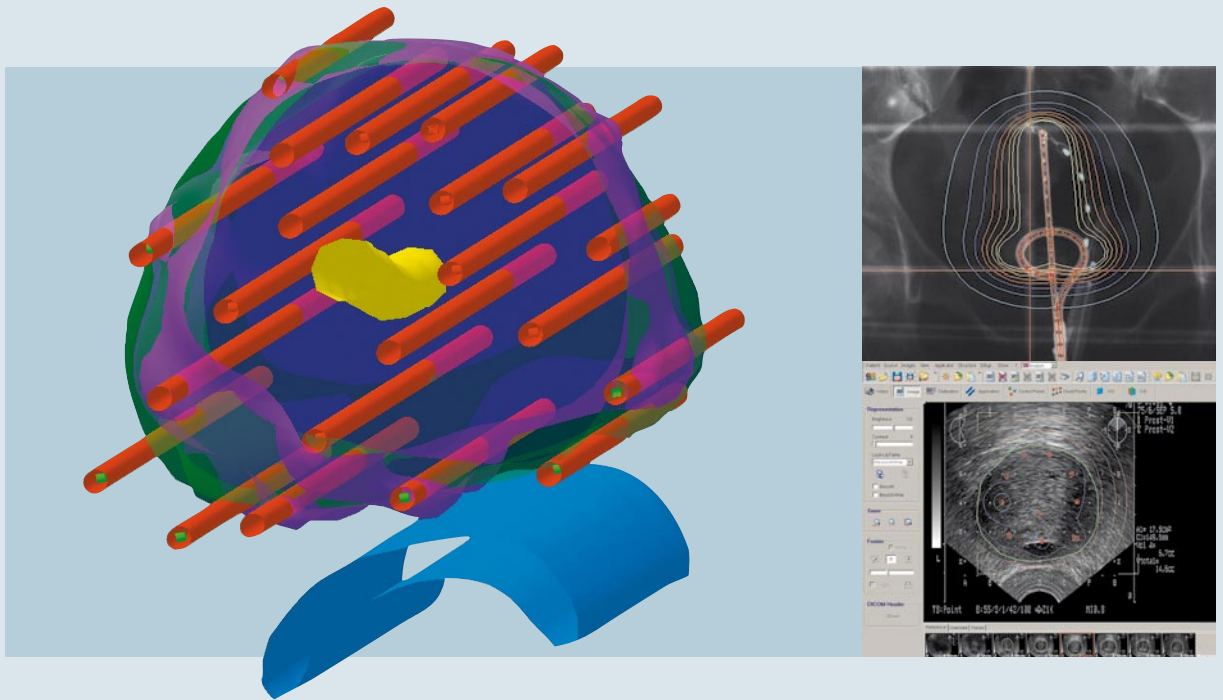


HDRplus™

Full Support of HDR Planning



HDRplus™ is an innovative, user friendly software for quick, efficient HDR planning.

■ Complete Planning – Full HDR Support

HDRplus™ provides its users all the functions which considerably simplify and speed-up their plan preparation. It supports all HDR applications such as intraluminal, interstitial, intracavitary, intra-operative and surface mould treatments.

■ User Friendly

The HDRplus™ user interface features a modern and easy-to-use structure, including customisable tool bars to meet the users' treatment planning style.

■ Complete Applicator Database

HDRplus™ has a complete applicator database at its disposal which can be used to select applicators and place them directly on the X-ray film or on the CT/MR images. A lengthy reconstruction of the applicator is no longer necessary.

■ Extended Dose Optimisation Features

HDRplus™ includes extensive functions for the simplification of dose optimisation. For this purpose, the user is provided with a wide array of options, both for automatic and manual optimisation. Plans can be optimised, using geometric optimisation, inverse planning or setting control and dose prescription points, for example. Moreover, a very user friendly edit function called isodose shaping can be applied by the user to shape the isodoses as required directly with the mouse.

■ Significant Evaluation and Viewing

HDRplus™ uses modern imaging technology to provide significant evaluation options for isodoses, organ contours and applicators for optimal planning. Isodoses, organ contours and applicators can be displayed in 2D planes on coronal, sagittal, transversal and oblique view. Additionally a powerful 3D viewing function allows transparency and zoom in views of organs, applicators and dose distributions. Dose histogram functions can be used to evaluate the treatment plan.

■ Extensive and Customisable Documentation

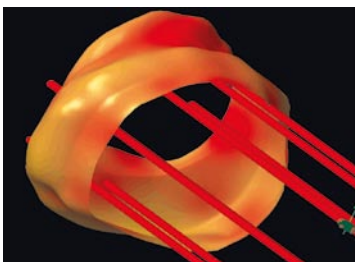
An extensive and customisable report function provides physician defined information and streamlined output.

■ Image Processing

- Import of files via DICOM 3.0, film scanner or in all common formats, e.g. TIFF, BMP, JPEG, GIF, PNG
- Image acquisition from US device via frame grabber
- Fast manual contouring of anatomic structures in CT, MRT and US sequences
- Automatic interpolation of contours on all intermediate slices

■ Planning Features

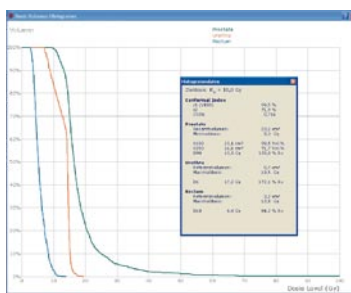
- Complete applicator library, applicator selection via drag and drop
- Reconstruction of applicator geometry from X-ray images
- Manual reconstruction of applicator geometry
- Source data for Co-60 and Ir-192 available according to TG 43*
- Simple editing of isodoses, dwell points, dwell times and dose control points
- Fast dose calculation algorithm
- Dose calculation in orthogonal & oblique 2D & 3D dose views
- Output of dose distributions in orthogonal planes
- Projection of dose distributions on X-ray film
- 2D display of organ contours, isodoses and applicators in transversal, sagittal and coronal as well as oblique views
- 3D display of organ contours, applicators and isodoses



* Measured by German National Metrology Institute

■ Extended Dose Optimisation Features

- Manual and automatic optimisation
- Inverse Planning
- Dose control point optimisation
- Dose prescription point
- Isodose shaping via mouse
- Geometric optimisation
- 3D view dose evaluation
- Dose Volume Histogram



■ Extensive and Customisable Documentation

- Patient Data Management function
- Extensive and customisable reports, containing patient information, source data, control point positions, dwell points and positions, cumulative and differential dose volume histograms and all needed isodose views

■ HDRplus™ Features

- Full compatibility with Microsoft Windows XP
- Floating license enables working on different workstations
- Multilingual user interface
- Context sensitive help function
- Meets AAPM TG 43 guidelines

■ Configuration

System consists of:

- HDRplus™ Treatment Planning Software
- HDRplus™ Desktop or Notebook

optional:

- 19" TFT monitor
- Film scanner
- HDRplus™ Frame Grabber Set
- Colour Inkjet Printer

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