Versatile Radiotherapy Add-on for PACS

VERIQA
Visualization and Evaluation of Radiotherapy Information
Integrate VERIQA into your PACS system to offer access possibilities to versatile DICOM radiotherapy information. VERIQA visualizes treatment plan information as radiation beam geometries, radiation dose distributions and structure datasets. Unique extension possibilities, offering evaluation and verification tools, make it the ideal completion of any DICOM PACS system. It is integrated easily and offers a flexible licensing scheme to match your customer's requirements.

**VERIQA Functionality**

**Dose visualization**
- 2D isodose line representation
- Dose colorwash overlay
- 3D mesh representation in volume view
- User-definable, visible dose values
- Absolute and normalized dose display

**Dose volume histograms (DVH)**
- Load stored DVH data from DICOM radiotherapy dose datasets
- Calculate DVH data from 3D dose distributions and radiotherapy structure datasets
- Compare DVHs from different treatment plans
- Calculate DVH statistics
- Display and export numerical DVH information

**Structure and point visualization**
- Display of radiotherapy structure datasets in 2D, 3D and digitally reconstructed radiograph (DRR) views
- Structure display in axial, coronal and sagittal views

**Radiation beam visualization**
- View radiation beams in 2D and 3D views
- Display radiotherapy wedges and blocks
- Display beam intensity diagrams for volumetric modulated arc therapy (VMAT) radiotherapy treatment plans
- Visualize radiation beam segments per control point for intensity modulated radiotherapy (IMRT) and VMAT
- Visualize radiation beams with Beam's Eye View (BEV) display

**Radiotherapy image visualization**
- View radiotherapy images as digitally reconstructed radiographs (DRRs)
- Generate DRRs with projections of radiation beam geometries and radiotherapy structures
**Versatile Expandability**

VERIQA offers a number of extensions to complement the basic viewing and visualization functionality:

- Radiotherapy dose summation
- Image registration
- Radiotherapy contouring
- Various radiotherapy treatment plan verification workflows

Please contact PTW for details of VERIQA extensions that make VERIQA the perfect add-on for your PACS system.

**Your Benefit**

- Participate in PACS tenders with radiotherapy requirements
- Meet your customer’s special radiotherapy needs
- Access to customers with extended scope of PACS application
- Easy integration into your PACS system by command line call
- World-wide sales and support network
- Cooperation with the global market leader in dosimetry and quality control solutions

VERIQA is not available for sale in all markets. Some of the modules described are under development. Please contact your local PTW representative for details.
Dosimetry Pioneers since 1922.

It all started with a brilliant invention — the revolutionary Hammer dosemeter in 1922. Ingenuity coupled with German engineering know-how shaped the company’s history, leading to innovative dosimetry products that later became an industry standard. Over the years, PTW has maintained its pioneering spirit, growing into a global market leader of dosimetry and QA solutions well known for its product excellence and innovative strength. Today, PTW dosimetry is one of the first choices for healthcare professionals in radiation therapy, diagnostic radiology, nuclear medicine and health physics.

For more information on PTW products visit www.ptw.de or contact your local PTW representative: