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DOSIsoft gets FDA OK for ThinkQA-EPIbeam, updates Planet Dose
By AuntMinnie.com staff writers

November 27, 2018 -- Radiation oncology and nuclear medicine software provider DOSIsoft has received U.S. Food and Drug Administration (FDA) 510(k) clearance for its ThinkQA-EPIbeam modular software suite and has also launched an updated version of its Planet Dose dosimetry system for molecular radiotherapy.

ThinkQA-EPIbeam is composed of an electronic portal imaging (EPI) beam module for patient-specific quality assurance (QA) for automated pretreatment verification of irradiation beams.

The quality-control EPIbeam tool for external-beam radiation therapy is based on an EPI device integrated into the ThinkQA software suite, a web-based system for radiation therapy QA and error detection. It is dedicated to verifying radiation therapy beams prior to patient treatments by comparing the delivered dose, reconstructed from electronic portal images, with the planned dose computed by the treatment planning system. It can be used to detect errors in the delivery of radiation therapy before treatment, such as the corruption of the transferred plan data to the treatment unit, inappropriate multileaf collimator sequence, or beam output malfunctioning.

EPIbeam also reduces the time spent on beam controls compared with phantom-based measurement methods and, thus, enables systematic pretreatment controls, according to DOSIsoft. It is compatible with all current treatment techniques: 3D chemoradiation therapy, intensity-modulated radiotherapy, volumetric-modulated arc therapy, and standard or flattening filter free beam fluence modes.

The company has also launched a new version of its Planet Dose multiradionuclide dosimetry system for molecular radiotherapy. Planet Dose has received the CE Mark for 3D personalized dosimetry for yttrium-90 and lutetium-177 therapies.

The advanced features include multiple time point quantification, elastic image registration, automatic deformable propagation of volume of interest across times, residence time calculation, dose computation, and consolidation of multitreatment stages, as well as advanced dose distribution analysis.

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