

PRESS RELEASE

DOSIsoft unveils new ThinkQA 3.0 at ESTRO 2026: Unified PSQA Platform for Offline and Online Adaptive RadioTherapy

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DOSIsoft, leading provider of dosimetry software solutions for radiation oncology and nuclear medicine, announces today it will showcase its new ThinkQA 3.0 - Unified PSQA Platform during the annual meeting of the European Society for Radiotherapy and Oncology (ESTRO), taking place on May 15 -19, 2026 in Stockholm, Sweden.

As radiation therapy advances toward **modern, time-constrained online Adaptive Radiation Therapy (ART)**, Patient Specific Quality Assurance (PSQA) processes must become faster, more reliable, and more integrated into clinical workflows. **ThinkQA 3.0** addresses these challenges by combining **speed, accuracy & simplicity** into a unified platform designed to **support online ART workflow**, for both CT-Linacs and MR-Linac.

The key capabilities demonstrated at ESTRO:

- **Automated PSQA:** GPU-powered 3D CCC (Collapsed Cone Convolution) algorithm delivering QA results **in just 1-2 minutes**
- **Integrated workflow:** **seamless integration into Elekta ONE** without adding time to the routine QA process
- **Centralized QA Management:** all PSQA tasks (pre- & post- treatment) managed within a single and connected platform
- **Simplified QA user experience:** Enhanced usability and web-based access

At **DOSIsoft Booth C16:51** Healthcare professionals can explore the **ThinkQA 3.0 design innovation** – dedicated to **streamline Patient QA experience**.

ThinkQA 3.0: Delivering end-to-end QA capabilities for adaptive radiation therapy

Tailored to meet the specific requirements of adaptive radiotherapy, ThinkQA 3.0 represents a significant technological breakthrough - **fully compatible with online and offline adaptive workflow**.

It runs around a unique, fast and optimized CCC calculation engine, validated against Monte Carlo simulations. ThinkQA 3.0 enables 3D dose distributions and 2D dose image comparisons using the same calculation engine to perform all PSQA verifications, reducing biases introduced by multiple engines.

- **Secondary dose check:** Independent full 3D dose calculation, **automatically handling adapt-to-position and adapt-to-shape plans**
- **Logfile analysis:** Automated pre-treatment and in vivo treatment verifications, based on machine delivery logs, and computed into 3D dose distributions.
- **Pretreatment check:** EPID-based phantom-less QA providing instant gamma-based comparison results.
- **In vivo dosimetry check:** EPID-based transit dosimetry QA for dose deviation detection during patient treatment.

ThinkQA 3.0: Automated and integrated Quality Assurance for Elekta Linacs

Multi-vendor by design, the latest product release **fits perfectly into Elekta modern radiotherapy ecosystem**. It works with all Elekta linear accelerators, including **Elekta Evo CT-Linac & Elekta Unity MR-Linac** for adaptive radiotherapy.

In the specific case of Unity MR-Linac, the advanced CCC calculation engine takes into account the cryostat transmission and magnetic field effects on the dose distribution.

Configured using Elekta ready-to-use beam templates and models for all verifications, ThinkQA 3.0 **simplifies the overall commissioning** to significantly reduce workload, ensure high standards of safety and regulatory compliance.

As part of the Elekta ONE solution, ThinkQA current version will be available for **workflow demonstrations at the Elekta booth #C10:87** during ESTRO.

"ESTRO provides a unique opportunity to connect with the radiation oncology community and demonstrate how ThinkQA 3.0 helps clinics keep the highest level of quality assurance in increasingly sophisticated adaptive radiotherapy," said Marc Uszynski, CEO at DOSIsoft, *"The new ThinkQA 3.0 - unified PSQA platform delivers outstanding performance, offering dose computation accuracy, actionable QA dosimetric insights, all via its intuitive web dashboard. Its streamlined commissioning and seamless integration with Elekta ONE represent key advantages, enabling clinical teams to deliver safer, more precise treatments with greater operational confidence"*

Research highlights and innovation

DOSIsoft will present latest research initiatives at its booth on **Saturday 16 May 16:30-17:00 & Sunday 17 May 10:00 -10:30**

- [Poster] **Deep Learning-based dose distribution correction of Electron Return Effect in MR-guided radiotherapy** in collaboration with Institut Curie – Paris, France Alexandre Hakimi, Eric Fadel, François Smekens, Clément Chevillard, François Husson
- [Poster] **EPID-based in vivo transit dosimetry in external beam radiotherapy: prediction of portal dose images using artificial neural networks** In collaboration with INSERM Toulouse NeuroImaging Center – Toulouse, France Côme Mével Dutertre, Alexandre Hakimi, Eric Fadel, François Smekens, Xavier Franceries, François Husson

About DOSIsoft

Founded in 2002, DOSIsoft is a market leader specializing in dosimetry software for Radiation Oncology and Nuclear Medicine to improve cancer treatment quality and patient safety. DOSIsoft offers advanced, efficient patient-specific quality assurance (PSQA) and Theranostics solutions.

With over 1,000 installations across more than 800 hospital centers in 80 countries, DOSIsoft supports healthcare professionals worldwide in delivering precise, personalized care. A spin-off from leading French cancer research institutions, Gustave Roussy and Institut Curie, DOSIsoft continues to innovate through close collaboration with top cancer institutes and research centers around the world. www.dosisoft.com

About ThinkQA

ThinkQA 3 is under on-going product regulatory approval. The product may not be available in all markets. Please contact your local sales representative for more information.

ThinkQA is distributed exclusively by Elekta www.elekta.com

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