Data-backed Assurance

AQUA™
As radiation therapy technology becomes more sophisticated and treatments increasingly complex, there is a growing quality assurance burden within clinics to ensure that patient treatments are safe, efficient and effective. At the same time, tighter regulatory scrutiny and increasing workloads place additional demands on already stretched resources.

Going beyond simple device QA, AQUA integrates key elements of the treatment delivery environment meaning that wider compliance requirements can be easily verified and reported.

Recognizing the need for more streamlined QA workflows, Elekta has introduced AQUA—a powerful quality management tool that integrates and collates QA processes and helps you run QA workflows from one user interface.

AQUA is a comprehensive machine quality management solution that:

- Simplifies QA processes across the entire workflow
- Frees staff and resources
- Enhances departmental efficiency
- Maintains system performance records in support of QA compliance
Centralizing QA compliance across the entire hospital network

An open, web-based QA management solution, AQUA provides easy monitoring and maintenance of all machine QA programs across the clinic, including multiple sites, allowing centralized data management and remote access.

AQUA manages data from multiple devices regardless of vendor, including:

- Linear accelerators
- Quality assurance equipment
- Brachytherapy equipment
- Leksell Gamma Knife® and other radiosurgery machines
- CT simulators and other imaging systems

Providing a full suite of workflow-oriented machine QA tasks, AQUA monitors regularly scheduled tests to confirm that machines are operating within user-defined specifications.

With real-time alerts to areas that require immediate attention, AQUA detects machine operating specification and performance issues before they affect clinical service, increasing confidence in machine quality and safety.

Standardize and streamline workflows

AQUA manages routine machine QA procedures throughout the department, providing workflow optimization and improved operational efficiency.

The AQUA workflow manager provides a daily ‘To-do’ list and guides staff through daily quality assurance tasks.

AQUA provides a single, access-controlled interface for scheduling, monitoring and reviewing all machine QA procedures and tasks. Process integration and automation simplifies QA requirements and streamlines workflows, increasing standardization and generating significant time savings.

The AQUA Dashboard provides a real time, comprehensive overview of machine status which can be accessed remotely.
AQUA has proven performance in a clinical setting

**Proven performance**

AQUA was developed in collaboration with Princess Margaret Cancer Centre to meet practical day-to-day machine QA requirements. Based on a system that has been in routine operational use since February 2012 and connecting over 20 machines, AQUA has proven performance in a clinical setting.

**Protect the whole treatment delivery environment**

AQUA monitors more than treatment delivery devices and associated equipment—it also covers key elements of the bunker itself, such as treatment room door interlocks, panic panel and crashbars, intercom and video monitors, stereotactic interlocks, radiation area monitors and beam-on indicators (control and room warning lights).

**Working towards an integrated future**

The vendor-neutral approach and the ease of test customization means new devices can be easily integrated into the AQUA ecosystem within a single clinic or across a distributed hospital network. Increasing integration over time—especially with Elekta treatment delivery systems—will facilitate further improvements in workflows and compliance across the entire clinic.
AQUA supports multiple devices within a single clinic (vendor neutral using customizable APIs) ...as well as a network of clinics
AQUA Status shows you the entire service history for each device and allows easy communication of changes in machine status as they occur.

AQUA alerts and directs physicists to machine QA-related compliance issues

Save time and resources

At-a-glance, the AQUA dashboard allows physicists to monitor the QA status of equipment across the department, including:

- Tests that have been performed
- Tests that are due
- Results of recent tests
- Trends relating to a specific QA procedure
- Current machine state

AQUA alerts and directs physicists to compliance issues as soon as they occur, ensuring that corrective action can be taken immediately, to reduce machine downtime.

AQUA can be configured to perform core daily QA tests in as little as 30 minutes by automating machine quality management procedures.

And, AQUA can scale to expanding locations, equipment and procedures without the need for additional staff.

Assist regulatory compliance

AQUA machine QA protocols are based on internationally recognized professional guidelines (AAPM TG142 and TG51, IAEA Technical Report Series No.398) designed to ensure treatment quality and compliance. In addition, AQUA provides complete flexibility to customize or create additional test protocols to meet individual departmental requirements.

The data analysis and monitoring tools within AQUA allow a wide range of reports to be generated, stored and retrieved at the click of a button—including trend analyses and audit reports.
Elekta Care™
Get the most from your Elekta solution

Elekta Care is designed to help you maximize the use of your Elekta technology, so you can focus on your patients and your practice.

Elekta Care supports you from startup through your product’s lifecycle with comprehensive options from education, training and upgrades to solutions allowing you the highest uptime and improved operational efficiency.

- Certified installation teams
- 650 field service engineers
- 165 remote service specialists
- Qualified training specialists
- Peer-to-peer learning
- Online and on-site courses
For almost five decades, Elekta has been a leader in precision radiation medicine.

Our nearly 4,000 employees worldwide are committed to ensuring everyone in the world with cancer has access to—and benefits from—more precise, personalized radiotherapy treatments.