A human care company, Elekta pioneers significant innovations and clinical solutions for treating cancer and brain disorders. Elekta provides intelligent and resource-efficient technologies that improve, prolong and save patient lives. We go beyond collaboration seeking long-term relationships built on trust with a shared vision, offering confidence to healthcare providers and their patients.

Clarity™
Soft Tissue Visualization

A bold new vision
CT simulation is a key part of radiation therapy workflows, but its limited soft tissue visualization can inhibit its ability to characterize target anatomy and surrounding structures. Tumor motion and changes in size and shape of soft tissue targets over the course of treatment compound the need for clear soft tissue visualization.

Clarity takes soft tissue visualization to entirely new levels for Radiation Therapy. Easy to learn and use, Clarity is capable of integrating with any External Beam Radiation Therapy workflow and equipment to support simulation, planning and treatment.

Support for Simulation and Planning
Clarity’s hybrid imaging technology allows clinicians to add superior soft tissue visualization to their existing CT simulation without the extra cost and overhead of a dedicated MRI.

Clarity hybrid imaging is achieved by acquiring Clarity images at the same time as the CT acquisition procedure with the patient in the same RT setup position. This allows CT and Clarity images to be automatically fused for seamless integration into simulation and planning workflows.

Clarity’s patented assisted automated segmentation technology supports clinicians in rapidly contouring and defining 3D soft tissue targets and anatomy prior to treatment planning.
Support for Treatment
In the treatment room, Clarity provides clinicians with fast and accurate soft tissue IGRT that can be integrated with any existing external beam delivery workflow, regardless of the platform and without adding any imaging dose.

Clarity uses unique patented segmentation technology to help define and align target structures to the planned daily setup, based on shape, size and position of the anatomy. This provides accurate, structure-based IGRT without the need for surgically implanted markers.
References


Innovation

By providing unique soft tissue hybrid imaging with CT at the time of simulation for automated fusion, contouring soft tissue anatomy can be done with added confidence and consistency.

Efficiency

Using patented automated soft tissue segmentation technology, target contouring can be done quickly and easily. Clarity IGRT, based on anatomical structures, means fast patient setup for shorter treatment slots. Easy to learn and use, Clarity is fully integrated into any external beam RT workflow.

Flexibility

Clarity offers hybrid imaging and soft tissue IGRT with any CT and linac delivery platform, regardless of age or brand and is compatible with all major TPS systems.

Evidence

Persistent 3D imaging and anatomy definition data to allow for monitoring target motion, shape and size over the course of treatment.

Confidence

Clear soft tissue visualization at all stages of external beam RT workflows provides clinicians confidence in anatomy definition for planning and confidence to perform daily treatment shifts.

The Elekta commitment to Oncology

Elekta product and service development is driven by a commitment to deliver on five core values in order to offer our customers an enhanced partnership for the fight against cancer. Clarity delivers against those values in the following ways:

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Human Care Makes the Future Possible