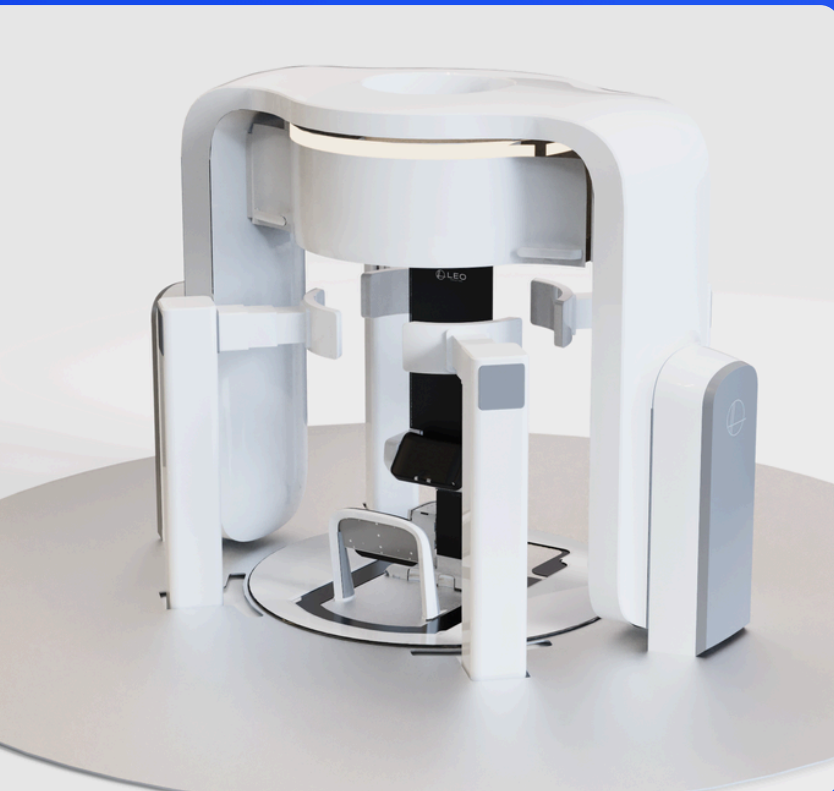


Qualyscan[®] Upright

**In vivo verification
integrated into upright
particle therapy**

IN POSITION. IN VIVO. IN CONTROL.

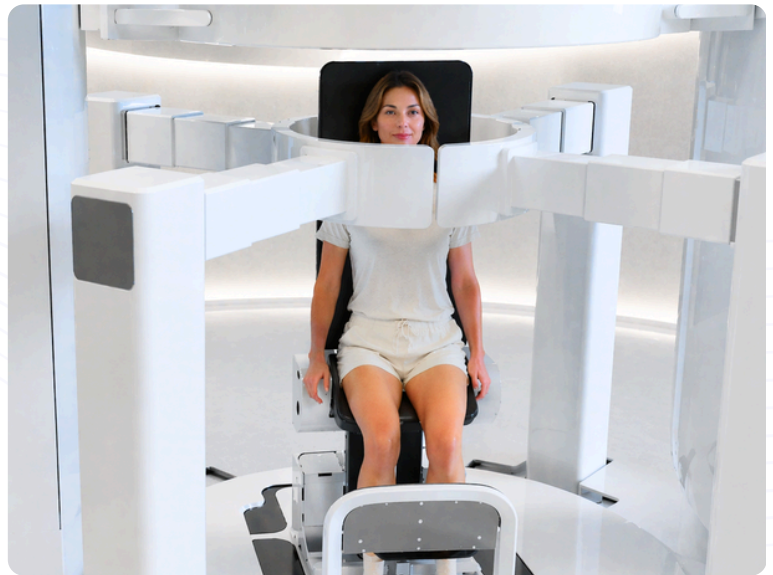


Qualyscan Upright* brings Positron Emission Tomography (PET)-based verification directly into the treatment position, enabling accurate in vivo assessment of the delivered dose under real clinical conditions.

Performed with no patient repositioning between irradiation and measurement, it preserves geometric consistency and enables a direct correlation with the delivered dose.

*Currently under development and not yet commercially available as a clinical solution.

A FULLY INTEGRATED TREATMENT WORKFLOW



Part of a unified ecosystem combining:

- RaySearch's treatment planning software, **RayStation®**
- Leo Cancer Care's upright treatment platform, **Marie®**
- Terapet's in vivo PET verification system, **Qualyscan® Upright**

This combination connects planning, treatment and in vivo verification in a single continuous workflow and enables, for the first time, a truly end-to-end approach to treatment validation in particle therapy.

During or immediately after irradiation, PET signals from irradiated tissue are acquired in the treatment position, preserving signal integrity and **minimizing biological washout**. The measured activity distribution is then directly compared with the expectation from the treatment plan, providing **independent and quantitative verification** of treatment delivery.

ADVANCED PET TECHNOLOGY

Combining high-precision detectors, radiation-tolerant electronics, and advanced reconstruction algorithms, the system is designed for **reliable performance** in demanding treatment conditions.

Accurate CT-PET registration and standardized data export enable **seamless integration** into clinical and research workflows.

ENABLING THE NEXT GENERATION OF PARTICLE THERAPY

By bringing verification into the treatment position, **Qualyscan Upright** opens **new possibilities for adaptive therapy**, data-driven decision-making, and biologically guided treatments.

UNLOCK THE FULL POTENTIAL OF PARTICLE THERAPY

Qualyscan Upright makes PET-based verification an integral part of the treatment workflow