Image-Guided Treatments Delivered Easily and Quickly

“We’ve been able to achieve increased accuracy in image-guided radiotherapy with Halcyon.”

Ziad Seedat, Physician, Busamed Hillcrest Oncology Centre, Durban, South Africa.

Previous experience with Clinac systems

The Halcyon system is designed to revolutionize radiotherapy through innovation in three crucial areas:

- **High Quality of Care**
- **Operational Excellence**
- **Human Centered Design**

The synergy of these values gives the system a unique ability to positively impact the professionals who use it and the patients being treated by it.

**High Quality of Care**

Optimized image-guided IMRT and RapidArc® radiotherapy:

- 6MV FFF beam makes IMRT and RapidArc achievable for more patients
- 100% IGRT enables precise delivery of IMRT and RapidArc techniques

**Speed without Compromise**

Faster treatments while maintaining high quality:

- CBCT imaging can be completed in approximately 15 seconds
- No imager deployment speeds up imaging process
- Accelerated RapidArc delivery at 2 RPM
- 4 RPM gantry speed saves time between fields
- Fast MLC motion allows for treatment to be delivered at close to maximum dose rate

- 3D CBCT allows visualization of internal anatomy
- kV CBCT offers large field of view and improves soft tissue definition
- Iterative CBCT utilizes statistical reconstruction methods to increase image quality
“The dual-layer MLC has enabled us to deliver high quality treatment plans for large, complex target cases.”

Lei Dong, Physicist, University of Pennsylvania Health System, Pennsylvania, USA. Conducted treatment planning comparison studies between Clinac and Halcyon.

Next Generation Dual-Layer Multileaf Collimator

Optimized modulated treatments:
- Reduces leakage and transmission
- Offers 5mm field shaping resolution
- Facilitates sharper dose fall off
- Enables dynamic beam flattening for simple treatment plans
- Full interdigitation and overtravel of leaves provide maximum usable field size

Quality of Treatment Plans

- Varian conducted treatment planning comparison studies using cases from previous years’ AAPM and AAMD planning competitions
- Halcyon treatment plans consistently scored in the top 10% of plan quality¹
- Visit Varian’s Medical Affairs website and click on “Halcyon Case Studies” to see these Halcyon treatment plans

¹ Data on file.

Intended Use Summary

Halcyon™ is intended to provide stereotactic radiosurgery and precision radiotherapy for lesions, tumors, and conditions anywhere in the body when radiation treatment is indicated.

Important Safety Information

Radiation treatments may cause side effects that can vary depending on the part of the body being treated. The most frequent ones are typically temporary and may include, but are not limited to, irritation to the respiratory, digestive, urinary or reproductive systems, fatigue, nausea, skin irritation, and hair loss. In some patients, they can be severe. Treatment sessions may vary in complexity and time. Radiation treatment is not appropriate for all cancers.

Medical Advice Disclaimer

Varian as a medical device manufacturer cannot and does not recommend specific treatment approaches. Individual treatment results may vary.