

Edge Radiosurgery System



An Innovative Gateway to the Future

The practice of radiotherapy has seen profound advances in how radiation is delivered. Clinicians are now able to treat a wide variety of cancers efficiently and accurately, while keeping the patient's safety and clinical outcome at the forefront of their practice. These advances have allowed clinicians to push the envelope to provide the best possible outcomes for their patients.

The Edge® radiosurgery system from Varian embodies the next generation of radiotherapy: radiosurgery. Fully equipped with integrated features, the Edge system allows you to treat patients quickly and precisely, while potentially reducing time spent in a clinic for individual patients. This allows patients more free time away from treatment and enables clinics to treat more patients in established time slots.

As a dedicated radiosurgery machine with conventional treatment features available, the Edge system meets the needs of clinics that want to offer a wide variety of treatment options to patients.

The Edge system represents an evolution in how radiosurgery is delivered, enabling you to perform non-invasive, ablative intracranial and extracranial radiosurgery treatments in addition to highly precise radiotherapy treatments across a range of clinical indications.





Delivering on the toughest demands

The Edge system is designed from the ground up to help you achieve your clinical goals and to transition your clinic to the future of radiotherapy. Advanced imaging capabilities and treatment delivery tools allow you to treat a wider array of cancers and clinical cases, opening the door to more treatment options for patients who may not otherwise be considered for radiation therapy or radiosurgery.

Accuracy, flexibility, and efficiency are words that embody the essence of the Edge system. When combined, they have the potential to help you provide unmatched clinical care to patients and may allow more patients to be treated with radiosurgery.

Accuracy

- Enables sub-millimeter accuracy¹
- Provides end-to-end accuracy with increased treatment precision for a wide range of applications²

Flexibility

- Caters to versatile treatment modalities for customized patient care to treat cases using conventional and radiosurgical techniques
- Offers a full range of photon and electron energy selections

Efficiency

- Delivers dose rate up to 2400 MU/min for short treatment times
- \cdot Available with optimized planning, delivery, and workflow tools



Build your clinic on a solid foundation

The integrated features of the Edge system coupled with Varian's industry-leading developments in radiotherapy give you the power to build a solution that works best for your clinic. As a dedicated radiosurgery system, the Edge system is fully equipped to put enhanced treatment options in the hands of clinicians while expanding treatment possibilities for a wide range of conditions.



Core Radiosurgery Features

- PerfectPitch™ 6 degrees of freedom couch
- Supports robotic couch alignment with smooth isocentric rotation in 6 degrees of freedom
- Provides robust 440 lb/200 kg patientload capacity with sub-millimeter/degree positioning accuracy²
- Offers increased treatment precision for challenging targets²
- HD120™ multileaf collimator
- Enables precise, focused dose through fine 2.5 mm leaves
- Produces high-resolution beam shaping
- Improves sparing of surrounding healthy tissue



Variety of Energies to Meet Your Clinical Needs

- High-intensity mode
- 6X/10X high-intensity mode,1400 MU 2400 MU/min
- Increases speed of beam-on time
- Minimizes the effects of patient motion as a result of higher dose rate
- Up to 7 photon energies
- 0 8 electron energies, up to 2 additional for high-dose skin treatments
- Low 2.5X imaging energy

EDGE



Advanced Treatment Delivery Techniques

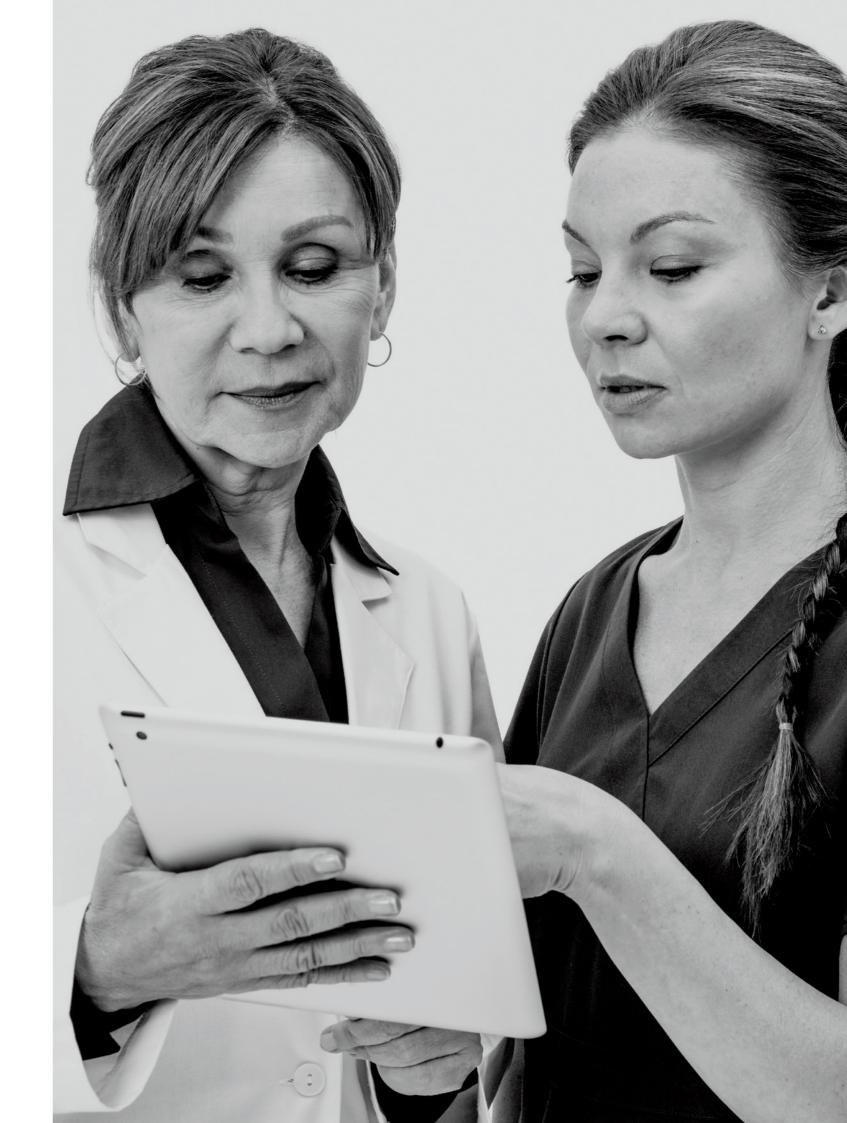
- HyperArc $^{\text{TM}}$ high-definition radiotherapy
- Provides prescriptive, streamlined, automated technology that safely delivers highly precise single isocenter cranial treatments
- Combines treatment planning and delivery features that allow treatments to be delivered in one click without the need to re-enter the room
- Delivers best-in-class radiosurgery plan quality³ with conformal and compact dose to potentially spare more surrounding healthy tissue
- RapidArc® radiotherapy technology
- Improves clinical efficiency⁴ while enabling volumetric treatments that minimize dose to critical structures
- Synchronizes MLC and gantry motion together with MU output for fast and highly modulated volumetric modulated arc therapy (VMAT) treatments
- Supports delivery of precisely sculpted 3D dose for stereotactic ablation of operable and inoperable high-risk tumors



Fast, Accurate Imaging Features

- Planar 2D kV and 2D MV imaging
- Provides multiple imaging options such as 2D kV imaging; paired 2D kV-MV imaging, kV fluoroscopy
- 3D CBCT
- Offers full-arc, partial-arc, short-arc
 3D CBCT imaging to meet various
 clinical needs
- Iterative CBCT
- Delivers statistical reconstruction and advanced scatter reduction algorithms to reduce noise and streak artifacts in 3D CBCT images, resulting in improved image quality⁵
- 4D CBCT
- Visualizes motion caused by respiration to ensure optimal positioning of moving targets
- Gated CBCT
- Reduces CBCT motion artifacts in thorax and abdominal regions, thus improving visibility of anatomy position
- · Respiratory gating package
- Monitors the patient's respiratory motion and delivers radiation only when the patient's respiration is within the gating thresholds
- Visual coaching device
- Presents breathing guidance to patients to improve the regularity (e.g., frequency, amplitude) of their breathing patterns









Motion Monitoring

- Triggered imaging and auto beam hold
- Monitors the location of implanted fiducial markers by automatic detection of marker locations within kV images that are acquired at regular intervals during treatment delivery
- Automatically holds treatment beam when motion is detected
- IDENTIFY[™] guidance solution⁶
 - Allows sub-millimeter, real-time, nonionizing, surface-guided patient alignment and intra-fraction monitoring
- Enables patient identification, immobilization device registration, verification, and patient setup for treatment delivery—identical to CT simulation
- Offers safety, quality, and efficiency features in an automated workflow
- Calypso® system
- Provides accurate, objective, and continuous non-ionizing localization information for moving targets during set-up and radiation treatment delivery
- Offers integrated, real-time electromagnetic intra-fraction tumortracking techniques optimized for extracranial radiosurgery
- Holds and gates treatment beam and corrects couch position when motion is detected



Radiosurgery Accessories

- Varian Head Frame
- Provides frame-based, rigid immobilization to support traditional radiosurgery treatments
- Includes treatment and CT couch mounts
- Contains a cranial screw kit with a variety of screw lengths available
- Integrated conical collimator certification
 interlock (ICVI) system
- Offers automated and electronic correlation of plan requirements for cone sizes with the physical cone present in the system, including checks on the MV isocenter and cone alignment
- Includes 7 conical collimators of the following sizes (in millimeters): 4, 5, 7.5, 10, 12.5, 15, and 17.5
- Increases treatment precision for traditional cone-based radiosurgery and functional stereotactic radiosurgery (SRS) treatments

Dedicated Marketing Resources⁶

 Allows access to Edge-only marketing materials to create a personalized marketing program that targets referring physicians and patients in your community

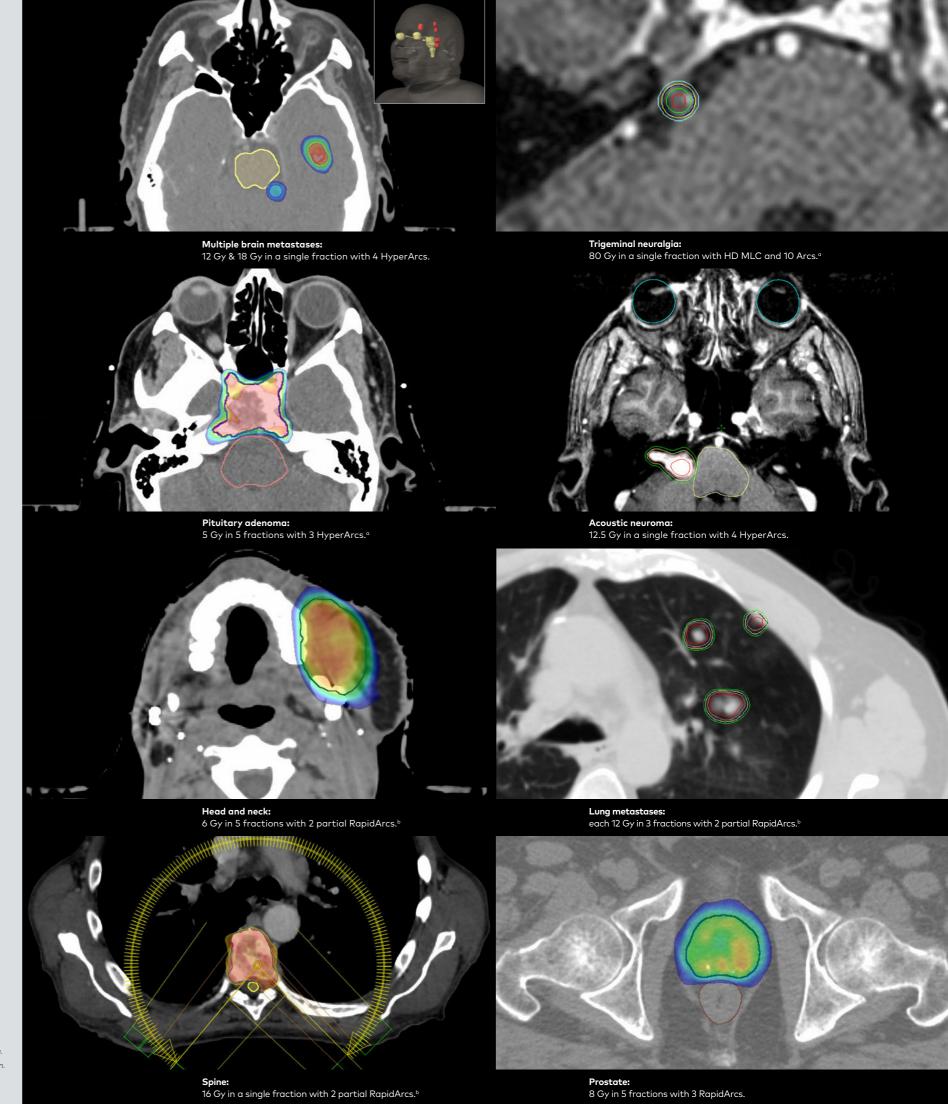


The Edge of innovation in radiosurgery

With integrated technology that puts the needs of the clinician and clinic first, the Edge system allows you to effectively and precisely treat a wide variety of clinical indications to help you achieve your best clinical care.

Radiosurgery Case Examples

- Intracranial SRS treatments:
- Single and multiple brain metastases
- Acoustic neuroma, meningioma, pituitary adenoma
- Glioblastoma (GBM)
- Arteriovenous malformation (AVM)
- Trigeminal neuralgia
- Stereotactic body radiation therapy (SBRT) treatments:
- Spine
- Lung
- Liver
- Pancreas
- Prostate



a) Courtesy of University of Alabama Birmingham, Alabama.b) Courtesy of Henry Ford Health Systems, Detroit, Michigan.



Comprehensive service, world-class support

Varian provides world-class service to help keep your Edge system online, your clinicians engaged, and your patient satisfaction scores high. You get the right parts and the most up-to-date software, installed and maintained by Varian-trained professionals — virtually anywhere in the world. We combine a full range of capabilities, including:

Knowledge and Experience

Varian service professionals receive upto-date classroom instruction, on-the-job training, and advanced workflow tools, while you receive exclusive access to Varian product engineers and system designers.

SmartConnect® Plus Technology

Remote equipment monitoring automatically alerts Varian to potential issues, proactively diagnoses these issues, and can expedite repairs before problems escalate.

Machine Performance Check

Machine Performance Check (MPC) allows you to evaluate the performance of your Edge system. It is fully automatic, acquiring images and processing results to verify specifications such as isocenter, couch rotation, MLC positioning, and more. Results are displayed as clear pass/fail indicators.

Proprietary Processes

We maintain detailed, tested protocols for servicing your equipment in the most efficient way while keeping patients and staff safe.

Planned Maintenance Program

Regularly scheduled parts maintenance and replacement can help you keep your machine up and running.

Education and Training

Our education and training mission is to provide you with the skills and knowledge to operate your Varian equipment efficiently, helping with your mission to save more patients' lives. Our global team comprises hundreds of experienced radiotherapy professionals, including physicists, MDs, dosimetrists, and radiation therapists, as well as highly trained technical instructors.

Professional Services Tailored to Your Requirements

Varian's Professional Services organization delivers a wide range of programs tailored to your needs, helping you achieve higher clinical availability, more efficient workflows, safer use of technology, faster treatment times, and a more relaxed patient experience.

More options for your patients



More opportunities for your clinic



TrueBeam®/VitalBeam® Halcyon™ Treatment Procedures



ProBeam®
Proton Therapy
Systems



Edge° System

Dedicated Full-Body

Calypso°
Real-Time Tracking
Technology



Bravos[™]
afterloader system
Product Suite for
Planning and Delivery



Eclipse™/RapidPlan™

Treatment Planning

System



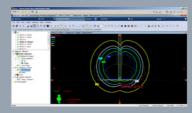
Velocity[™]
Oncology Imaging
Informatics System



ARIA°
Oncology Information
System



InSightive[™]/
OncoAnalytics[®]
Oncology Analytics



Connectivity
Epic, Cerner,
ARIA Connect



360 Oncology™ Care Management



Imagine a world without the fear of cancer

Varian has been a pioneer in the field of oncology for more than 70 years. During this time, we have introduced innovative treatment techniques, equipment, and software that have been used to treat tens of thousands of cancer patients worldwide. Today we offer products and services to advance the entire treatment process. Our work creates a community of those affected by cancer, so we can unite around our common goal to fight this disease.

we do.



valiau EDCE

- 1. Functional capacity of couch, collimator and gantry.
- 2. In comparison to mechanical accuracy of a 4DoF couch. Varian Medical Systems data on file.
- 3. Varian Medical Systems data on file.
- 4. Varian Medical Systems data on file.
- 5. Iterative CBCT applies to non-moving anatomies such as head and neck and pelvic regions.
- 6. Not available in every market. Please check availability with your sales representative.

Intended Use Summary

Varian Medical Systems' linear accelerators are intended to provide stereotactic radiosurgery and precision radiotherapy for lesions, tumors, and conditions anywhere in the body where 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.

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Varian Medical Systems as a medical device manufacturer cannot and does not recommend specific treatment approaches. Specifications subject to change without notice.

Not all features or products are available in all markets and are subject to change

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