

ETHOSTM

THERAPY

An Adaptive Intelligence™ solution

varian

Every gain, breakthrough, and step forward in the cancer fight occupies a specific moment in time. A significant launch point where ideas change, commonly held beliefs shift, and thinking transforms.

Ethos™ therapy is one of those moments.

The moment advanced technology, increased efficiency, and the world's cancer fighting community converge, propelling a revolutionary sea change—a new ethos—in what we're able to do in the fight against cancer.



The moment of
Ethos™ therapy
is now.

The future of advanced, patient-centered cancer treatment is here.

At Varian, we're harnessing advanced technologies like artificial intelligence, machine learning, and data analytics to enhance cancer treatment and expand access to care for patients globally.



Intelligent Cancer Care™

We call our approach **Intelligent Cancer Care™**: an information-driven, continuously learning ecosystem that keeps the patient and our clinical partners at the center of our thinking as we power new victories against cancer.

The future of Intelligent Cancer Care is at hand, with **Ethos™ therapy**—an Adaptive Intelligence™ solution.



Comprehensive, AI-driven adaptive therapy has arrived.

We set out to redefine adaptive therapy. The result is Ethos™ therapy—an information-driven, holistic, adaptive therapy solution designed to increase the capability, flexibility and efficiency of adaptive therapy.

1 Initial Planning

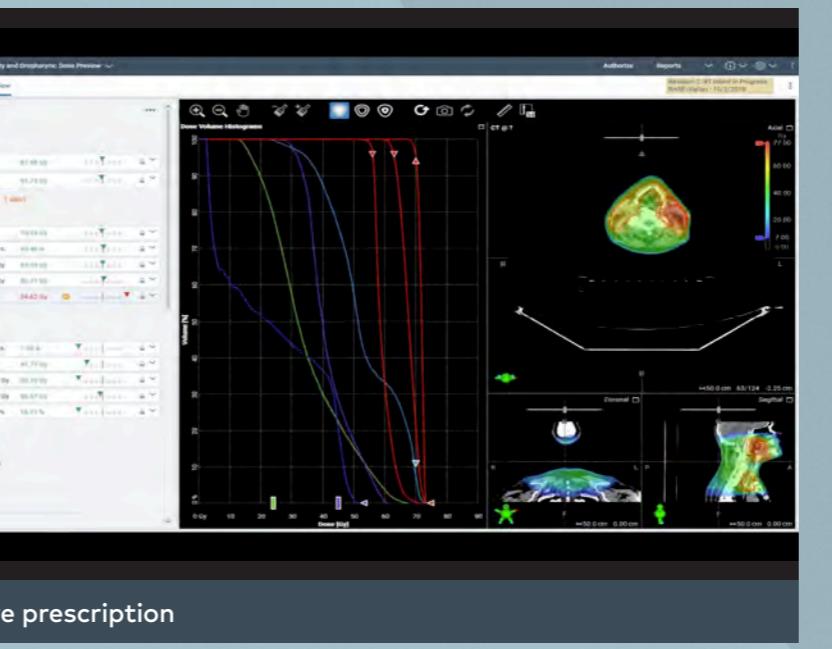
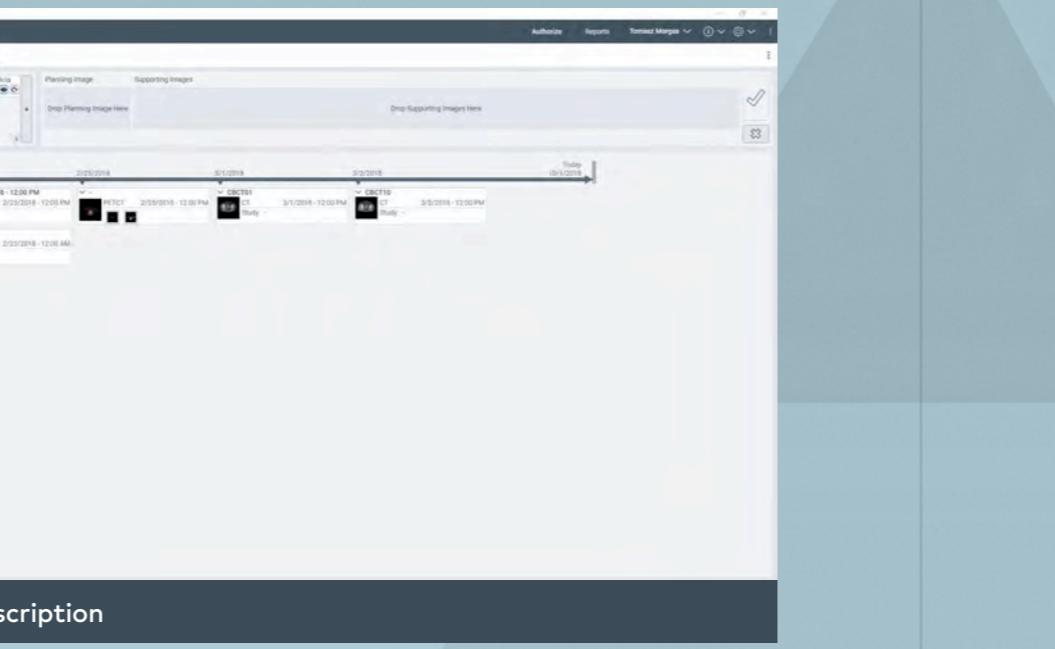
2 On-Couch Adaptation

3 Treatment Monitoring

Ethos™ therapy unites leading-edge technologies and artificial intelligence with your expertise—empowering you to deliver personalized care to every one of your patients through its AI-driven Adaptive Intelligence™ workflow.

Initial Planning

Ethos™ therapy is designed to optimize the way in which clinicians generate prescriptions with the use of templates.



Potential benefits

Transformative technologies help enhance clinical workflow

- Template-driven prescription creation of physician's objectives and intent
- Designed to optimize the generation of interactive 3D prescriptions
- Using templates allows clinicians to create many goals within seconds, such as target dose and OAR constraints

Easily integrate multi-modality images at any stage

- Leverage diagnostic MR, PET, and CT images during planning and treatment
- Atlas and geometry-based algorithms contour selected anatomy automatically
- Manual drag-and-drop tools are also available for further review and fast edits in real-time

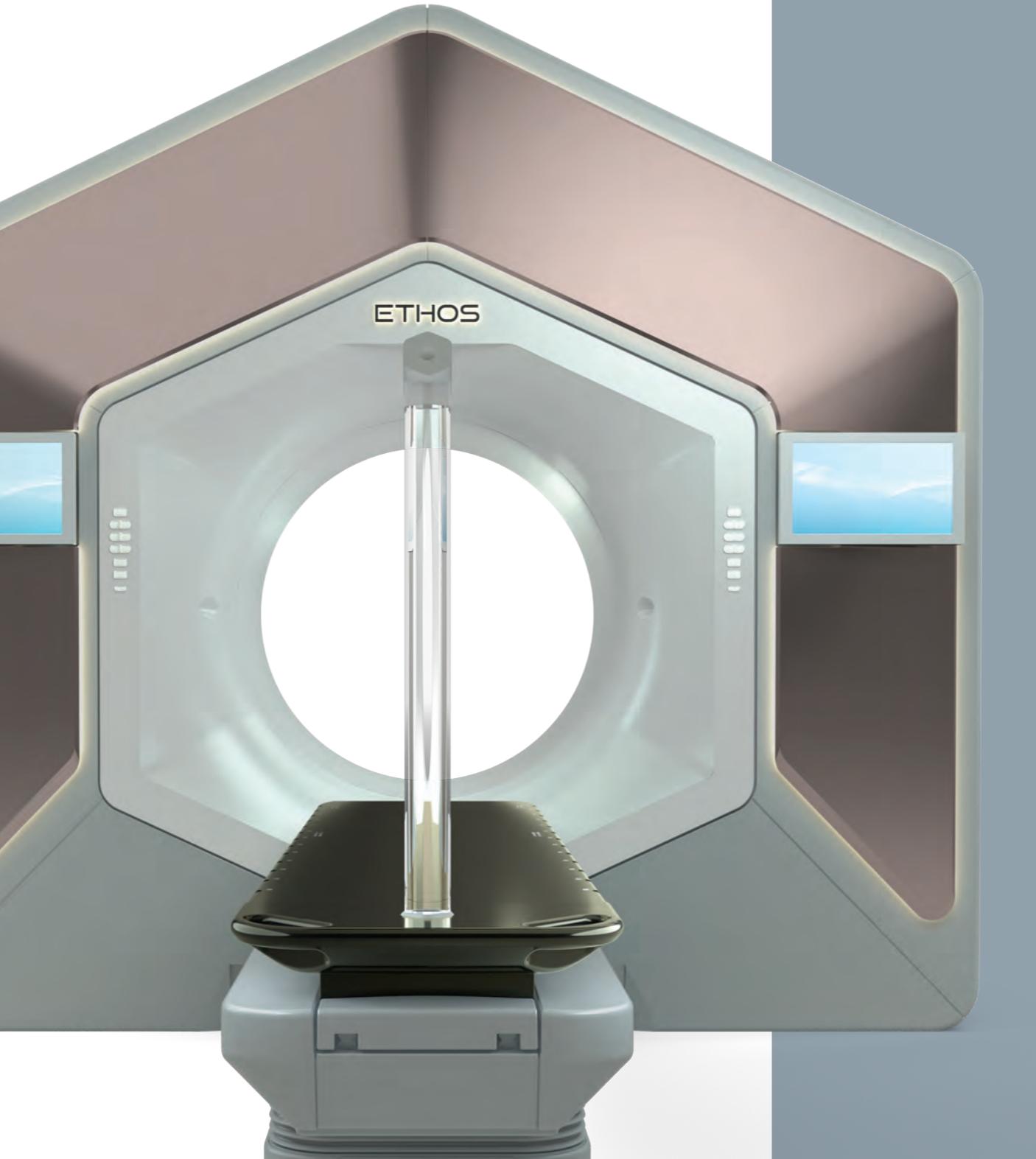
New interactive dose optimizer—powered by GPU

- Dose preview allows for evaluation of trade-offs in organ sparing and target dose coverage
- Using GPU for dose calculation and optimization, AI-driven IMRT and VMAT plans are auto-generated
- Plans are compared against physician's intent using metrics to streamline the comparisons

On-Couch Adaptation

Ethos™ therapy is designed to provide cancer care teams with the ability to deliver adaptive therapy within a typical 15-minute timeslot.

Clinicians can choose to adapt a patient's plan during treatment to accurately deliver daily on the physician's intent.



Potential benefits

Accelerated patient setup and CBCT acquisition

- Cone Beam CT (CBCT) acquisition in as fast as 17 seconds, with a length of up to 38.5cm
- Iterative kV CBCT imaging helps clinicians visualize the patient's anatomy to facilitate on-couch adaptation

Automated contour and planning evaluation

- Streamlined access to all multi-modality images selected during Initial Planning phase
- Once all target contours have been accepted, plans are auto-generated for review
- Experience automated AI treatment planning in as little as 2½ minutes for IMRT plans
- AI segmentation technology automatically contours healthy tissue in just 15–30 seconds

Uncompromised high-quality radiotherapy

- Built on an efficient delivery platform that reduces patient time on the couch without compromising quality
- Flexibility to choose between adaptive and non-adaptive treatments
- Efficient workflow can be completed in a typical 15-minute timeslot from setup through delivery

Efficient patient-specific QA

- Compare clinical goal metrics, dose distributions, and DVHs with a proven QA platform
- No additional staff or training is required for commissioning or QA
- Initial planning—and adaptive planning at the console—use the same algorithms for consistency
- Independent adaptive plan QA can be performed on-demand, without impeding treatment workflow



Treatment Monitoring

Ethos™ therapy takes the complexity out of adaptive therapy and enables robust, enhanced treatment monitoring.

Potential benefits

Advanced evaluation and forecasting

- Daily treatment data automatically saved back to the patient's chart for treatment course monitoring
- Apply automated dose accumulation and forecasting to monitor treatment progress
- Assisted off-line adaptation decision-making

Enhanced levels of visibility

- Clear, comprehensive timeline enables easy review of any treatment fraction
- Ability to view AI-generated contours, planning and treatment decisions, and reconstructed delivered dose
- Access to structure volume trends and dose forecasting is viewable for each clinical objective

Together, we'll fuel the next generation of adaptive therapy.

Experience the moment when artificial intelligence and adaptive therapy combine to create Ethos™ therapy, our Adaptive Intelligence™ solution

Technology so advanced it will inspire you to reimagine how you're able to treat each patient in your care.

To help drive the worldwide adoption of intelligent adaptive therapy, Varian has formed the **Adaptive Intelligence™ Consortium**.

Comprised of clinicians and scientists from leading cancer centers across the globe, the consortium will lead clinical trials to develop evidence-based clinical protocols for Ethos therapy.

Join us in redefining adaptive therapy and the future of advanced cancer care—moving us closer to realizing our vision of a world without fear of cancer.



Yesterday's belief in how cancer should be fought has changed forever. From this day forward, we're committed to helping you put the power of **Adaptive Intelligence™** to work in your fight against cancer so you can go beyond...

Beyond... complex adaptive treatments to a new, AI-driven therapy solution.

Beyond... what you thought possible today and toward a new belief—a new ethos—in what you'll be able to achieve, impact, and inspire on a global scale.

The moment of Ethos™ therapy is now.

Visit varian.com/ethos to learn more and experience Ethos™ therapy, an Adaptive Intelligence solution from Varian.

A new era in oncology

Intelligent Cancer Care™

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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.

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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A new era in oncology

Intelligent Cancer Care™

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