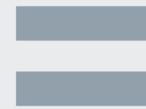
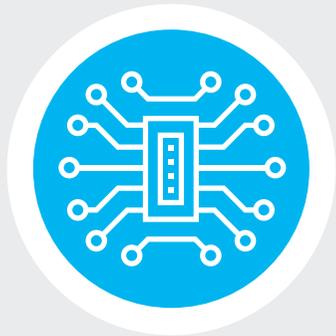


ECLIPSE 16.0



Machine Learning

Human Intelligence

Machine Intelligence

ECLIPSE 16.0

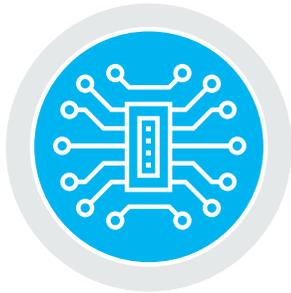


At Varian, we believe in partnering with our customers to better our products. We continue to strive to understand the impact that a continually shifting healthcare environment and rapidly-changing technology has on patient care. Being a partner for life means designing our solutions to address these concerns, allowing you to spend more time on patient care.

Varian has been an industry leader in Machine Learning since 2014 with the introduction of RapidPlan™ knowledge-based planning. Fostering global communication with the ability to share RapidPlan models demonstrates our commitment to being your partner for life. With Eclipse™ treatment planning system v. 16.0, we expand our reach into the proton space with the introduction of RapidPlan for Protons.

However, it takes more than machine smarts to create optimal treatment plans for patients. It takes the combination of patient data, machine learning, and human intelligence with Multi-Criteria Optimization (MCO) to achieve what we call Machine Intelligence. To help better manage time and efficiency, Graphics Processing Unit (GPU) now supports VMAT optimization. In addition to your input through MCO, other clinical experts can add their input through RT Peer Review, which is a tool that enables collaboration amongst clinical experts to review cases straight from Eclipse during a session. Decisions can be made in an efficient fashion.

This document provides an overview of the key features of Eclipse v. 16.0. For additional information, please reference all product documentation available on MyVarian.



RT Peer Review—Simple and Fast Peer Review Solution

The RT Peer Review solution is designed to seamlessly prepare, conduct, and expedite the facility's peer review workflow. It offers an integrated collaborative workspace that is designed to improve efficiency of the clinical staff's focused tasks during the plan review with a simplified workflow.

Key workspace features include:

- Comprehensive overview of all patients available for review
 - Demographics and diagnostic information
 - Prescription details
 - Last treatment or imaging date
- Integrated, collaborative platform
 - Combined bookmarked plans and clinical information from ARIA®
- Follow-up tools
 - Action Items and History
 - Session and patients review reports



RapidPlan for Proton Therapy—Knowledge-based Planning and Decision Support

With the goal of achieving greater consistency, efficiency and quality, RapidPlan™ can now be used within the Eclipse proton planning module to help clinics:

- Streamline high quality plan creation for photon and proton treatments to more efficiently help you determine the optimal treatment modality for each patient.
- Share treatment planning knowledge and expertise between proton centers without sharing any patient data.
- Increase confidence and improve plan quality using a model-based approach.
- Reduce the variability in plan quality by benchmarking against prior clinical practice.



Additional Planning Improvements with Eclipse 16.0

Halcyon™ 3.0

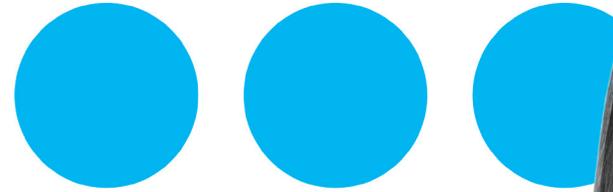
- The maximum distance between treatment isocenters is 10.5 cm and treatment planning can now be done accordingly.
- Acuros® XB advanced dose calculation and GPU Support
- Increased number of VMAT fields to 20

External Beam Planning

- In addition to IMRT optimization and Acuros XB dose calculation, there is now Graphics Processing Unit (GPU) support for VMAT optimization, which allows for faster optimization of a VMAT plan.
- Clinical goals can now be defined manually for plans and plan sums. You can also select a clinical goal template.
- Define a variation acceptable value for each clinical goal separately.

MCO (Multi-Criteria Optimization) Improvements

- The Clinical Goals tab shows clinical goals for plans that have clinical goals defined. You can use the new tools on this tab to explore how the current trade-off exploration range can fulfill the clinical goals.
- Local Dose Correction will allow the user to explore the effect of increasing or decreasing dose locally around the selected location.



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. www.varian.com/safety

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varian.com

USA, Corporate Headquarters and Manufacturer

Varian Medical Systems
Palo Alto, CA
Tel: 650.424.5700
800.544.4636

Authorized Representative in the EU

Varian Medical Systems
Nederland B.V.
Kokermolen 2
3994 DH Houten, The Netherlands
customer.relations@varian.com

Headquarters Europe, Eastern Europe, Middle & Near East, India, Africa

Varian Medical Systems
International AG
Steinhausen, Switzerland
Tel: 41.41.749.8844

Asia Pacific Headquarters

Varian Medical Systems
Pacific, Inc.
Kowloon, Hong Kong
Tel: 852.2724.2836

Australasian Headquarters

Varian Medical Systems
Australasia Pty Ltd.
Sydney, Australia
Tel: 61.2.9485.0100

Latin American Headquarters

Varian Medical Systems
Brasil Ltda.
São Paulo, Brasil
Tel: 55.11.3457.2655

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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