



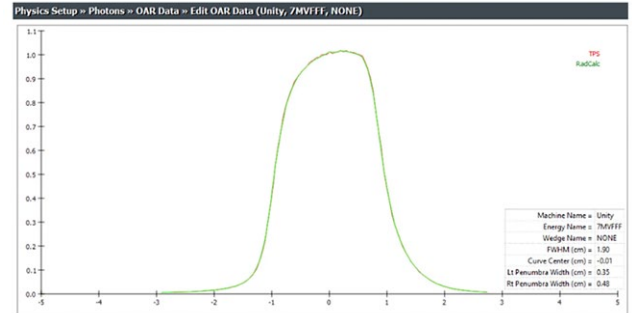
Specialized module

RadCalc MR LINACs

The RadCalc Essential package for MR LINACs performs independent monitor unit (MU) or point dose verification calculations that fit perfectly into your adaptive workflow. It allows radiation oncology professionals to quickly and accurately verify treatment doses and catch data transfer errors, improving patient safety and reducing the chance of errors.

Features

- Advanced dosimetric calculations**
 Utilizes Clarkson calculations with ray tracing for conventional radiotherapy and Modified Clarkson Integration (MCI) for modulated treatment plans.
- IMRT precision**
 Independent interpolation of control points ensures precise MLC pattern and fluence map verification, delivering plan accuracy within $\pm 5\%$.⁽¹⁾
- Seamless data transfer**
 Import and export features enable efficient data transfer to and from TPS and record-and-verify systems, minimizing errors.
- Streamlined plan comparison and validation**
 The plan comparison tool simplifies treatment plan validation eliminating data transfer errors.
- Automation with RadCalcAIR**
 RadCalcAIR enhances workflow efficiency by automating key tasks, immediately alerting to plans that fail to pass clinical criteria.
- Magnetic Field Consideration**
 RadCalc incorporates the Lorentz force effects due to the magnetic field into its dose calculations to ensure accurate results.⁽²⁾
- Support for Elekta Unity and ViewRay MRIdian**
 RadCalc provides preconfigured machine models with data from Monaco (Elekta Unity) and ViewRay TPS.



Requirements

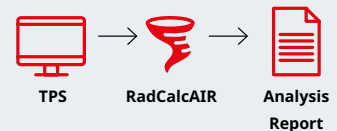
General hardware requirements for RadCalc (main program)

	Network install	Local install - not recommended
Operating System	Microsoft® Windows® Server 2016, 2019 or 2022	Microsoft® Windows® 10, and 11, 32-bit and 64-bit operating systems
Processor	8 Core or better	8 Core or better
RAM	16 GB or more	
Network	5 Gbps connection, bandwidth to the client should be 10 mbps with a latency not exceeding 50 ms	
Video	Minimum resolution 1024 × 768 px (scaling up to 125 %) and minimum 1 GB video memory (RAM)	
Graphics	OpenGL 1.1 support required	OpenGL 1.1 support required
Hard drive space	1TB SSD available, varies with quantity and type of patient data	512 GB available, varies with quantity and type of patient data

Portal workflows

SDC Only Workflow:

Users evaluate the results of the SDC performed via RadCalcAIR and reviewed within the RadCalc Portal.



Contact us!

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¹ RadCalc Classic: The Original Comprehensive Secondary Dose Calculation Software for Radiation Therapy

² RadCalc Adds Support for MR-Linacs

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