TomoTherapy® Calculations

RadCalc®

RadCalc's Tomo module* provides support for the following TomoTherapy® features:

- TomoHelical deliveries
- TomoDirect deliveries
- TomoEDGE dynamic jaws

RadCalc's calculations contain the following information:

- Prescriptions for documentation purposes
- One or more beams as imported from the TPS

RadCalc compares:

- Time calculations versus imported Plan Time
- Dose to multiple calculation points

RadCalc displays:

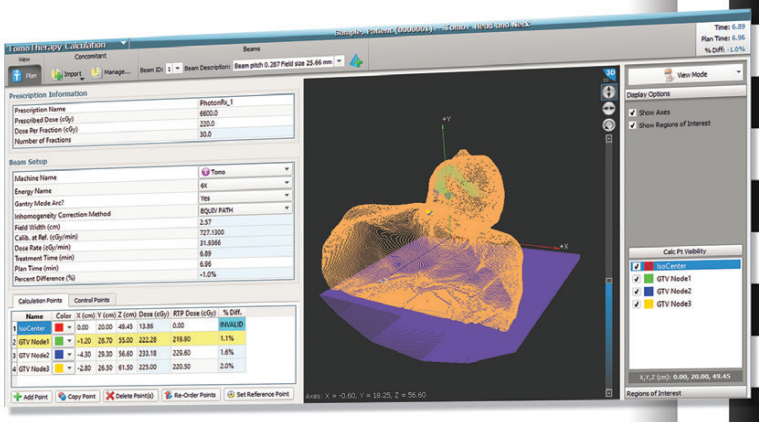
- 2D or 3D visualization of imported patient structures
- Sinogram
- Individual control points illustrating leaf open times

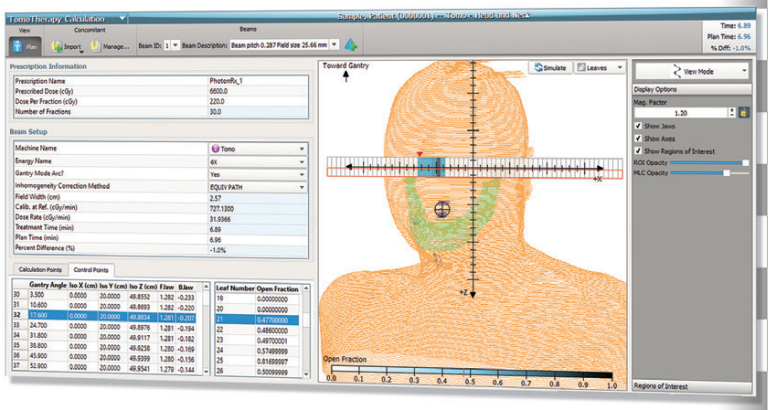
The RadCalc Process:

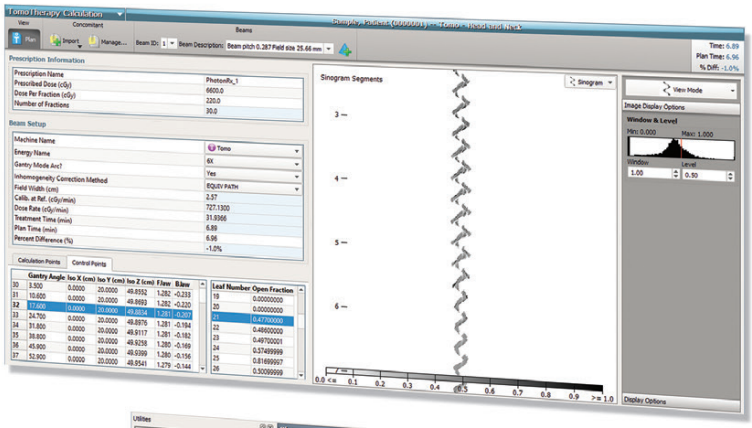
- Import plan and structures via DICOM
- Specify calculation points if not imported
- Compute the dose

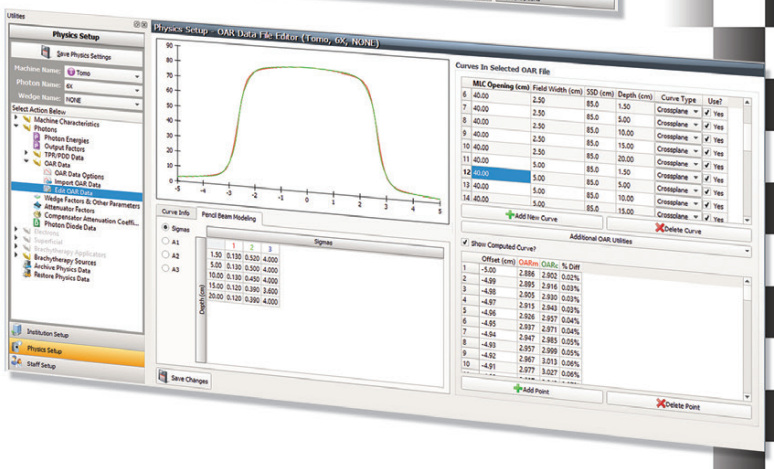
Computation method:

- Measured or modeled PDD and Scp factors may be used
- Profile data is modeled via the weighted sum of three Gaussian distributions
- Ray tracing is performed through the structures to determine the depth and effective depth
- Each control point is decomposed into a set of finite beamlets with an appropriate weighting such that their summation reproduces the imported sinogram for the control point









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*Available now in RadCalc version 6.3.5.0

LifeLine Software Inc.