

# MultiPlan® MD Suite

## Planning Toolkit for the Physician

Fitting the critical pre-planning tasks into a busy workday can be a challenge for any radiation oncologist, surgeon, or involved physician.

Whether the MultiPlan® Treatment Planning System is in the next room or in the next county, the MultiPlan MD Suite of applications bridges the gap for CyberKnife® Robotic Radiosurgery System users. Because the MultiPlan MD Suite provides secure access to patient record data from the CyberKnife System database, planning tasks are quickly available at a time and place that is most convenient for the clinician.

The design of the MultiPlan MD Suite of applications replicates the design of the MultiPlan Treatment Planning System, ensuring workflow consistency. The intuitive user interface follows the clinical workflow, streamlining efficiency, and the flexible design allows easy forward or backward navigation through the workflow.

## Multi-Modality Image Fusion and Registration

The MultiPlan MD Suite includes a powerful image fusion algorithm for registering multiple image series from modalities such as CT, MRI, PET and 3D Angiography.

- Speed up the process by identifying corresponding landmarks in each image series and using them as seed points for the registration
- Start the registration and watch on the 3D, axial, sagittal and coronal views as the MultiPlan MD Suite provides a dynamic visualization of the results in real-time
- Review the quality of the resulting registration on the split screen, the checkerboard, and the overlay views



## Volumetric Contouring

The palette of drawing tools includes options to fit any style, making contour delineation easy and intuitive.

- Delineate targets and critical structures on any of the registered image series
- Use standard drawing tools such as the pen, the line segment, and the ellipse to manually define volumes of interest
- Use the Contour Bumper tool to quickly and simply make adjustments and refinements as needed

Automatic delineation tools are also included in the MultiPlan MD Suite.

- The Smart Curve feature provides the ability to quickly draw contours that are close to the desired shape and then snaps them into place
- The 2D Magic Wand enables automatic segmentation of an anatomic structure on a single image slice with a simple click of the mouse
- The 3D Magic Wand enables automatic segmentation for an anatomic structure on all slices in the 3D image series

## Treatment Parameters Settings

Use the MultiPlan MD Suite to optionally specify the parameters for treatment delivery that need to be considered when generating a treatment plan

- Set the number of fractions that will be treated
- Specify which of the available tracking methods will be used
- Select a path set
- Decide whether to use the Fixed Collimators or the Iris™ Variable Aperture Collimator

Once saved, this treatment information is immediately available to the planner at the MultiPlan Treatment Planning System for plan optimization and calculation.

## Post-Planning Review

After the planning team takes the results of the fusion, contouring and treatment parameter settings to generate a treatment plan, the MultiPlan® MD Suite provides the option for the clinician to review that plan and all the statistics related to it.

- Load an optimized treatment plan into the MultiPlan MD Suite to view the isodose distributions, DVH graphs and plan statistics prior to authorizing the plan for treatment
- Load more than one treatment plan for side-by-side comparison to determine the most appropriate treatment for the patient

The MultiPlan MD Suite provides a comprehensive set of tools for pre-planning preparation and post-planning review for CyberKnife® Robotic Radiosurgery treatments. These tools allow for the most efficient use of the clinician's time, providing access to planning tasks quickly and at a convenient time and place.



The MultiPlan MD Suite of applications enables physicians to securely access patient records remotely.



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