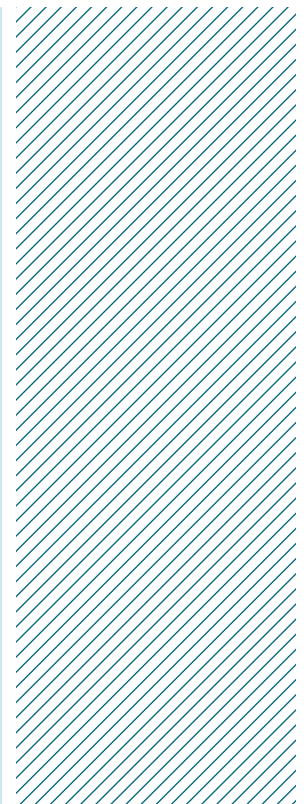# Leksell Gamma Knife Software 2020

Leksell Gamma Knife® Software 2020 (SW2020) is the latest software enhancement for Leksell Gamma Knife® control system and Leksell GammaPlan® and is applicable for Leksell Gamma Knife® Perfexion™ and Leksell Gamma Knife® Icon™. SW2020 includes Leksell GammaPlan 11.3 and Gamma Knife Control System software 11.4.
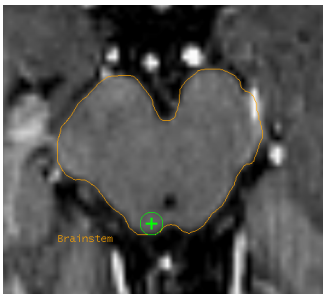
SW2020 provides a stable foundation for your Gamma Knife system to operate at optimum efficiency and to support future innovations and developments. SW2020 includes new features and several existing features of Gamma Knife software have been improved.
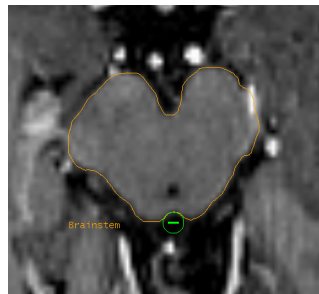
Treatment delivery system

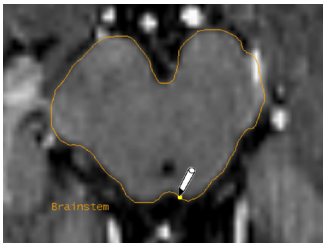## Adjustable target delivery order for Icon and Perfexion

For many metastasis treatments, the delivery order is important for smoother workflow. Additionally, the ability to sort targets helps reduce the effects of any unplanned interruptions when treating several lesions. SW2020 enables the delivery order of targets to be manually adjusted relative to clearance, beam-on time or other considerations, e.g., for staged beam delivery to targets.
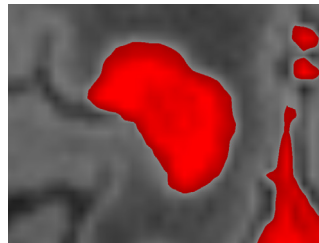

Paintbrush delineate

Paintbrush erase

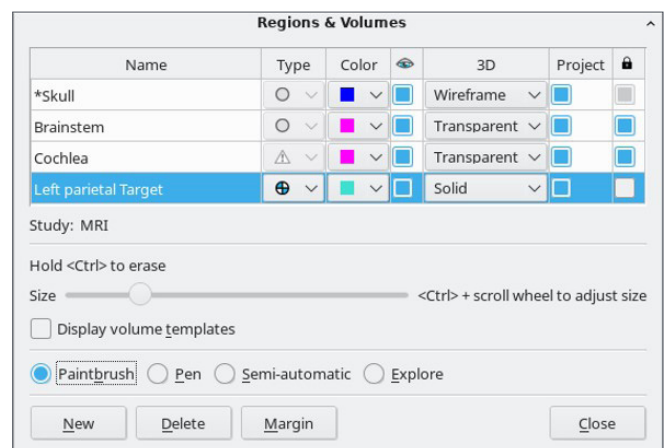

Pen delineate

Semi-automatic segmentation

Note: Intermediate regions are automatically interpolated and it may not be necessary to delineate on all images to define the volume

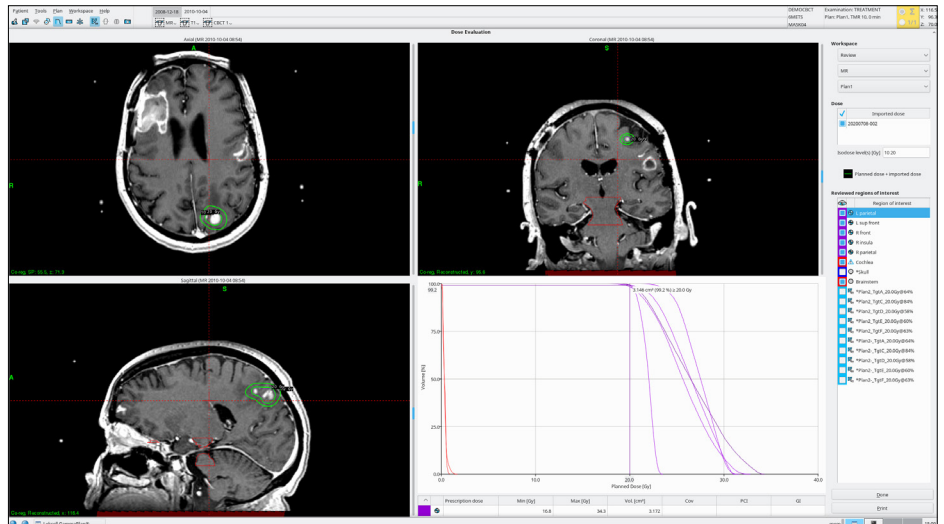## Paintbrush tool for contouring and editing of interpolated contours

For intuitive and quicker delineation and adjustment of a region of interest, a new Paintbrush tool has been introduced as part of the SW2020 package. This is complementary to existing drawing tools, such as Pen and Semi-automatic segmentation. The paintbrush tool can be used to manually delineate, edit or erase contours, and it may also be used to modify interpolated contours.

Regions and Volumes dialog improvements

The Regions & Volumes dialog has been improved to provide a compact and functional user interface that permits exploration and editing of volumes directly in the dialog. Volumes may optionally be sorted by clicking the Name column header, and the visibility, projection and locking of volumes can be quickly toggled by clicking on the corresponding column headers. Volumes already created are locked for editing by default when opening the dialog to prevent involuntary changes, but these can be unlocked to allow editing, unless they were created prior to plan approval. The name of a selected volume can be edited by simply clicking on the name. Deletion of contours can be achieved by using the paintbrush tool.
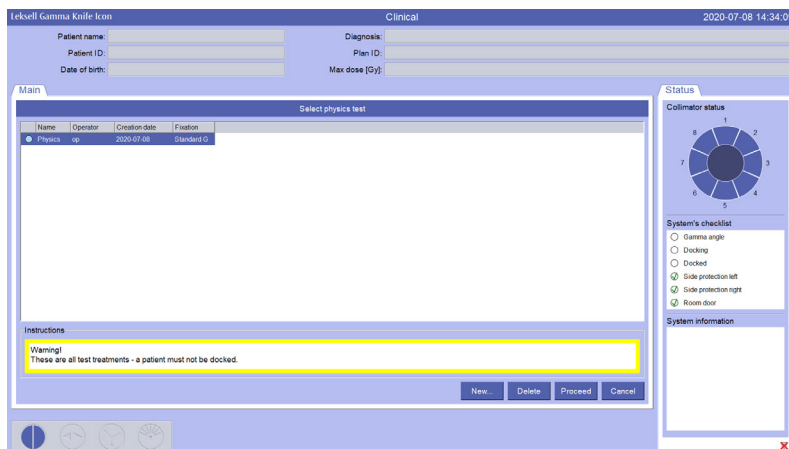
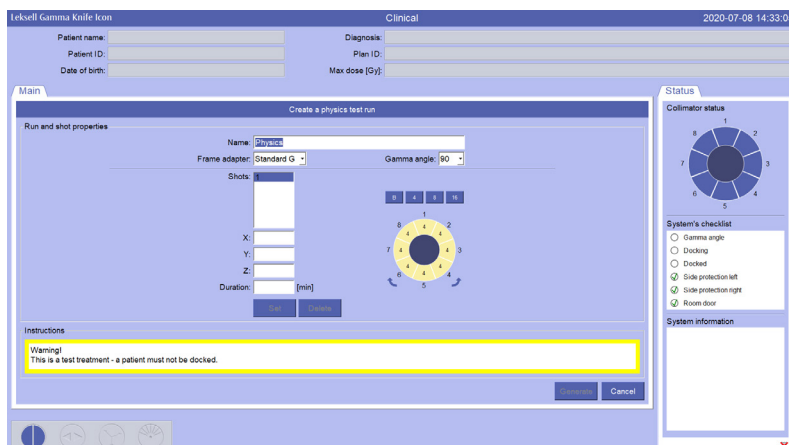## Dose summation available for re-planning and re-treatment workflows

The dose from a previous treatment is now available as imported dose and can be used for dose summation in the Dose Evaluation dialog after "examination import" (re-treatment). It is now possible to select individual imported doses for dose summation when more than one is available. This feature provides crucial information about previous treatments and will result in an easier workflow for subsequent retreatments and more informed decision-making.

Control System
Expand your ability to monitor the system, collect and store data.

Physics test function
This function allows physicists to create and perform test runs for commissioning and QA.

HDMM marker position in treatment log file (Icon only)
The patient position deviation and position of the patient marker during a treatment are available in the treatment log file. The data is saved to the log file with a frequency of 0.5 seconds. The data can be used, for instance, to perform studies on intrafraction motion and correlation to cone beam CT.

Additional features

A new software baseline for the future

To take your Leksell Gamma Knife to the next level, Elekta has introduced key innovations such as Leksell Gamma Knife® Lightning—the next-generation treatment optimizer that can help you reduce beam-on time by up to 50% and create conformal treatment plans in less than a minute. Installation of SW2020 is a prerequisite for installation and use of Lightning.

SW2020 also is the essential baseline for all future hardware and software upgrades. To know more about Leksell Gamma Knife Software 2020, contact your local Elekta sales representative.

Additional back up functionality

You no longer need to worry about losing your records and can be confident that you always have access to accurate planning and treatment data.

The first addition is the possibility to back up your data over the network drive that supports either CIFS (Common Internet File System) or NFS (Network File System) protocols. A network CIFS drive (e.g., Netapp, Windows 2019) is recommended. This is complementary to the existing USB backup. The second addition is the possibility to schedule network backup every day or on specific days of the week and specific times of day.

A new tool to check the integrity of backup on external USB disk has also been added.

For almost five decades, Elekta has been a leader in precision radiation medicine.

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