ENHANCED PLANNING AND TREATMENT POWER WITH ELEMENTS™ AND LEKSELL GAMMAPLAN®
DICOM VIEWER
Advanced 3D viewer for streamlined access to patient datasets

- Fast, easy access to medical image data
- Quick, direct interaction with DICOM images
- Simplified user interface supporting multi-touch gestures
- Short learning curve and intuitive usability
SMARTBRUSH®
Intelligent software-assisted tumor outlining

- Immediate, interactive target delineation
- Streamlined, multi-planar volume
- Smart contour expansion
- Simultaneous, multi-modality consideration in outlining
IMAGE FUSION
Dataset correlation for indispensable definition and contouring

• Fully automated, highly accurate image fusion
• Mutual information algorithm for dataset correlation
• ROI definition on areas of similar anatomy
• Contour flexibility for any datasets
FIBERTRACKING
Functional preservation through identification of defined neuronal connectivity

- Isolation of fibers via multiple region definition
- Quick visualization of functional information
- Minimal fiber length definition via signal/noise thresholding
- Tractography as natural malignancy progression predictor

Work in progress. Not commercially available.
LEKSELL GAMMAPLAN® SRS
Straightforward dose optimization with proven clinical experience

- Fast inverse planning utilizing full automation and flexibility
- Precise treatment planning and easy handling of multiple lesions
- Optimized dose sculpting for Leksell Gamma Knife® SRS
- Heterogeneity correction for targets near air cavities and bone with convolution
BRAINLAB
RADIOSURGERY ON LEKSELL GAMMA KNIFE®
PRE–OPERATIVE EVALUATION
Evaluation of optimal tumor resection and adjuvant radiosurgery/radiotherapy

- Software-based feasibility analysis of SRS/RT plans
- Automatic visualization of critical structures
- Instant, simultaneous planning of three radiation plans
- Tumor board discussion support and enrichment

Work in progress. Not commercially available.
RESECTION EVALUATION
Simulation of adjuvant SRS/SRT of residual tumor

- Dynamic planning based on initial and updated tumor volume
- Detailed toxicity table for OAR
- Customized pre-operative resection simulation
- Immediate radiation plan update

Work in progress. Not commercially available.
INTRAOPERATIVE CONTROL
Integrated surgery and radiosurgery planning

- Fully integrated with Brainlab cranial navigation software
- Elastic integration of intraoperative data
- Intraoperative surface point collection with navigation instruments
- Control point exporting for post-surgical evaluation

Work in progress. Not commercially available.
PLAN ADAPTATION
Timely plan updated during surgery in the O.R.

- Ideal sub-total resection quantification
- Comprehensive visualization of plan results
- May minimize surgical side effects
- May enhance radiosurgical effectiveness

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LEKSELL GAMMAPLAN® SRS
Straightforward dose optimization with proven clinical experience

• Optimized dose sculpting for Leksell Gamma Knife SRS
• Precise treatment planning
• Heterogeneity correction
• Fully automated, fast inverse planning

Work in progress. Not commercially available.