Panther Brachy

Fast, Accurate and Extremely User Friendly

Introduced over 25 years ago as one of the first computerized treatment planning systems, Panther Brachy builds on years of experience and customer feedback to present the complete brachytherapy specific product. From real-time planning for prostate cancer to advanced multi-angle needle insertion for Head & Neck treatments, Panther Brachy provides a state-of-the-art user interface that can be quickly mastered.

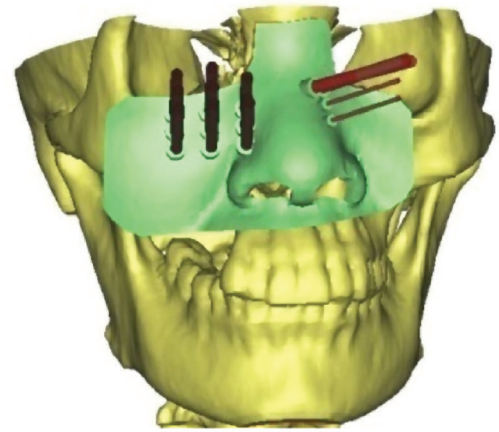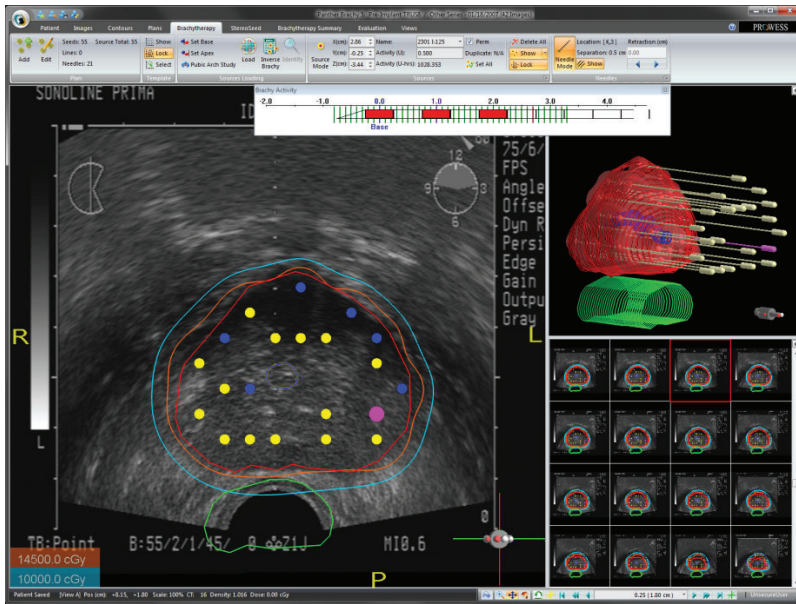### Single System for All Your Brachytherapy Needs

Panther Brachy officers every module within the same software interface whether you are performing temporary implants for gynecological cancer or permanent implants for prostate or breast. The software is easy to learn, runs on Microsoft® Windows 7, and supports remote planning and review via various native Windows applications. In addition to handling all of LDR planning needs, Panther Brachy runs in parallel with Panther TPS (external beam planning) to suit your boost needs and allows for simple composite dose plans.

StereoSeed™ Breakthrough Innovative Planning

This latest addition allows clinicians to insert needles for seed placement in angles that are not perpendicular to the imaging plane. This provides more flexibility during planning by extending LDR planning to more sites. With StereoSeed™ planning, critical structures can often be avoided all together.

Inverse Planning Clinical Advantages

With easy to set up constraints, the Franz Edelman Award winning iinverse planning algorithm generates clinically acceptable plans in under a minute. Quick planning allows for planning on the day of the implant thus accounting for organ deformations. With plans featuring roughly 15% to 20% fewer seeds and needles leading to lower implant times, the treatment is now less susceptible to organ swelling.

"I have been using Prowess Software for Brachy Therapy and External Beam Radiotherapy for more than twelve years in the Continental USA and Puerto Rico. Prowess systems are fast, accurate, and very user-friendly. I can't say enough about the customer service - they really take care of us. We are extremely pleased and look forward to the many advances that continue to come from Prowess."

**Pedro Montes, DABR,
Chief Operational Officer, Mayaguez,
Advanced Radiotherapy Center,
Mayaguez, Puerto Rico**

Key Features
- Comprehensive Real-time planning in the Operating Room
- Ability to treat with multiple isotopes
- Pubic Arch Study for making blocked holes
- Real time dose updates
- Support for custom needle templates
- TG-43 compliant

Importing and Acquiring Data
- Real-time Ultrasound image capture via frame grabber, ultrasound probe and automated stepper
- Fully DICOM 3.0 and DICOM RT complaint for import and export
- Support for CT, MRI, PET, Ultrasound image
- Automatic and manual Image Fusion
- Dose import for composite planning

Contouring and Structure Creation
- Support up to 60 contours
- Undo, Redo contouring utility
- Multiple Boolean operators
- Asymmetric margins

Display and View Manipulation
- 3D Visualization of simplant and anatomy
- CT view in 3D with efficient multi-planar reconstruction
- Single interface window throughout the planning procedure
- User selectable window layout
- Zoom any view to full screen

Pre-Planning Seed Placement
Manual Loading
- Geometric auto-loading patterns
- Interactive loading using mouse and/or keyboard controls
Inverse Planning
- 2007 Franz Edelman Award winning optimization technique
- Explicitly incorporates all delivery constraints
- Reduces the planning time in the OR and allows for reproducible plans
- Allows the creation of a brachytherapy plan within one minute
- Offers accuracy in dose delivery while lowering radiation to normal tissue
- Improved tumor control
- 15% - 20% fewer seeds and needles
StereoSeed
- 3D needle grid rotation
- Rotate seeds with needle
- Needle and Gride Slice 2D plane views
- Needle Guide Mask generator

Seed Finder
- Advanced CT seed localization algorithms
- Tools to help identify duplicate seeds

Evaluation Tools
- Biological Evaluation tools: EUD, CI, TCP, NTCP
- Isodose Lines, Iso-Fill, Colorwash and 3D Dose displays
- Side by side plan comparison
- DVH analysis and plan comparison
- User defined calculation matrix

FDA 510(k) Clearance
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