

# Panther Brachy Pro

Fast, Accurate and Extremely User Friendly



*"I have been using Prowess software for Brachy Therapy and External Beam Radiotherapy for more than twelve years in different Radiotherapy Centers 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**

Introduced in the late 80's as one of the first computerized treatment planning systems, Panther™ Brachy Pro builds on years of experience and customer feedback to present the complete brachytherapy specific product. From orthogonal film entry for Iridium ribbon implants to real-time planning for prostate cancer, Brachy Pro provides the state-of-the-art solutions for today's brachytherapy treatment.

## **BREAKTHROUGH INNOVATIVE INVERSE PLANNING**

The new Brachy Inverse Planning module uses the cutting edge algorithm that won the 2007 Franz Edelman Award for Operations Research.

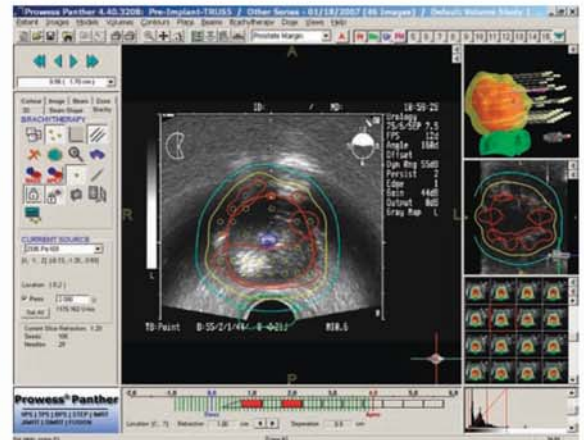
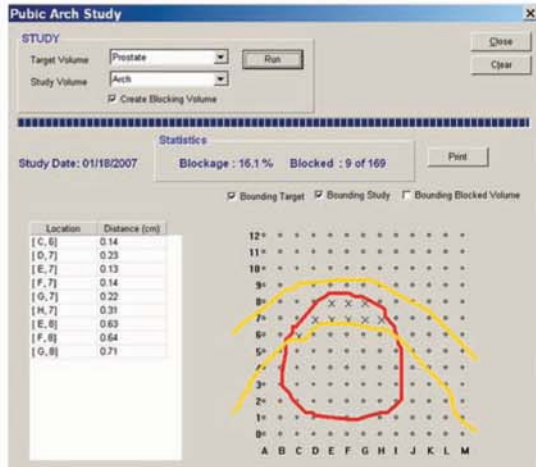
## **CLINICAL ADVANTAGES AND PATIENT BENEFITS**

With easy to set up constraints, the inverse planning algorithm comes up with clinically acceptable plans in under a minute with dose distributions well conformed to the tumor. 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.

## **SINGLE SYSTEM FOR ALL YOUR BRACHYTHERAPY NEEDS**

Whether you are performing temporary implants for gynecological cancer or permanent implants for prostate or breast, Panther™ Brachy Pro offers every module within the same software framework to give you that familiarity at no additional cost. Panther™ Brachy Pro is the only system that lets you create composite plans between External beam and Brachytherapy to suit your boost needs.

# Panther Brachy Pro Features



## Key Features

- Real-time Ultrasound image capture via frame grabber, ultrasound probe & automated stepper
- Comprehensive Real-time planning in the Operating Room
- Geometric loading and inverse planning based seed loading algorithms
- Ability to treat with multiple isotopes
- Pubic Arch Study for marking blocked holes
- Side by side plan comparison mode
- DVH comparisons and EUD tools
- Volumetric Image Cube (VIC) - Advanced 3D visualization tool
- Advanced CT seed localization algorithms including duplicate identification
- Complete reports for ordering seeds and plan export to auto-loading devices

## Orthogonal Film Entry

- Orthogonal film mode for adding temporary implants and HDR applications
- Capability of adding line and seed sources as well as calculation points and fiducials

## Inverse Brachytherapy

- Mixed Integer Programming based solution
- Sophisticated global constrained optimization technique.
- Allows the creation of a brachytherapy plan within one minute
- Offers accuracy in dose delivery while lowering radiation to normal tissue
- Reduces the planning time in the OR and allows for reproducible plans
- Improved tumor control
- Reduces the number of seeds and needles
- Explicitly incorporates all delivery constraints

## Brachytherapy Accessories

- Seed source editor
- Line source editor
- Template editor

## Standard Features

- Fully DICOM 3.0 and DICOM RT compliant for import and export
- Support for CT, MRI, PET, SPECT, Ultrasound images
- Automatic and manual Image Fusion
- Support up to 60 contours
- Undo, Redo contouring utility
- Multiple Boolean operators
- Asymmetric margins
- Single interface window throughout the planning procedure
- CT view in 3D with efficient multi-planar reconstruction.
- Plan comparison
- User selectable window layout
- Zoom any view to full screen
- Isodose, Iso-Fill and Colorwash features
- Composite plans with Conformal Therapy and IMRT
- Side by side plan comparison
- DVH comparison
- Relative and Absolute dose values
- User defined calculation matrix