Prostate motion is variable and unpredictable, posing challenges while delivering external beam radiation therapy to treat prostate cancer. As a clinician, if you could see and track target motion in real time during treatment delivery, you could confidently reduce the margins between the clinical target volume (CTV) and the planning target volume (PTV). The Calypso® System by Varian provides that capability.

Using GPS for the Body® Technology, Calypso detects even slight movement of the target, so you can keep it in the path of Varian’s precise radiation beam. Tighter treatment margins can help you reduce potential side effects and improve the quality of life for your patients, escalate dose to improve disease control, or accelerate treatments with SBRT.

Using real-time tracking and real-time treatments, Calypso can reduce treatment margins resulting in reduced side effects¹, even with increased dose.

PROSTATE SBRT

Hypofractionated, high-dose prostate treatments have shown promising results for some patients. When escalating dose, you need the confidence that real-time motion tracking provides.

The Calypso system enables your clinic to offer SBRT prostate treatment, with its advantages.

- Accelerated treatment
- More concentrated dose
- Reduced CTV-to-PTV margins
- Reduced treatment-related side effects

SOLUTION COMPONENTS

Calypso System

- Electromagnetic Beacon transponder implants
- 4D electromagnetic array
- Optical system with 3 infrared cameras
- 4D tracking station
- 4D Console

Qfix™ kVue™ Couchtop

- Non-conductive design. Cantilevered portion of couchtop is completely metal free
- Meets IEC deflection standards
- Maximum load rated to 440 lbs (200 kg)
- OneTouch™ locking mechanism for sub-millimeter accuracy when repositioning the insert
- Visual cue that insert is properly secured

Training

- Clinical training for transponder placement
  - Training for one clinician and staff member
  - Hands-on learning onsite at your facility
- Calypso System training
  - Training for four radiation therapists and one physician, physicist, and dosimetrist at your facility

RADIATION SAFETY

All radiosurgery and radiotherapy potentially may cause side effects, varying with the area of the body being treated. Systemic side effects can include fatigue, nausea, or low blood counts. Localized side effects can include skin erythema, hair loss, mucositis, shortness of breath, irritation of bowel and bladder function, or diminished sexual function. Radiation treatment is not appropriate for all cancers. Treatment sessions may vary in complexity and time.

© 2012 Varian Medical Systems, Inc. All rights reserved.
Varian, Varian Medical Systems and Calypso, Beacon transponder and GPS for the Body are registered trademarks of Varian Medical Systems. Qfix and kVue are trademarks of Qfix.