What You Need to Know About Prostate Motion During Radiation Therapy
If you have prostate cancer and your doctor has prescribed radiation therapy, there are some important things you should know. Your organs naturally move during radiation treatment and your doctor cannot predict which way or how much your organs will move. When your organs move during radiation therapy delivery the tumor may not get the right amount of radiation. Other nearby organs may receive radiation that is not meant for them during the radiation treatment.

Fortunately, the Calypso® 4D Localization System™ and implanted Beacon® electromagnetic transponders can help your doctor know when the prostate is not aligned with the radiation beam during your treatment.

The Calypso® 4D Localization System™ is different from other methods to prepare you for radiation treatment. The Calypso System uses radiofrequency waves which allow accurate alignment of your prostate before each treatment session. It can also be used to monitor the position of the prostate at all times during your radiation treatment delivery.
How the Calypso System Works

1. Three tiny Beacon® electromagnetic transponders are implanted into your prostate. In an outpatient procedure, like a biopsy, Beacon® transponders are implanted into your prostate. Each transponder is about as small as a grain of rice.
2. **This system excites the Beacon® transponders**

The Beacon® electromagnetic transponders communicate with the Calypso® 4D Localization System™ using safe radiofrequency waves.

*Activate transponders.*

*Transponders send signals back.*
3. Your prostate is monitored during treatment

The Calypso System shows exactly where the tumor is all the time during your radiation treatment so that the doctor can make quick, important decisions about your care.

A display shows the position of your prostate continuously. When the prostate is out of position, the graphic is color coded to alert the therapist. This is an actual patient record that demonstrates a prostate that has drifted out of alignment by 1 cm (yellow indicates out-of-tolerance).
For more information about the Calypso System
There is a patient video available for you to watch. Please visit www.calypsomedical.com or contact Calypso Medical Technologies, Inc. at 1-888-48-TRACK (1-888-488-7225).