

## BENEFITS OF TOMOTHERAPY

The TomoTherapy cancer treatment system can treat many types of cancer including prostate, breast, lung, head and neck and pediatric. Treatments are given to precisely planned areas and are noninvasive with superior results including improved quality of life. TomoTherapy treatments are painless similar to having a CT scan or x-ray. Reduced side effects are another advantage as compared to conventional forms of radiation therapy. Because of the ability to more precisely deliver the radiation, oncologists have reported that they are able to treat patients who have even been treated before if their cancers have returned.

## WHY GAMMA WEST FOR YOUR TREATMENT?

Gamma West Cancer Services is renowned for its success in treating prostate, breast and other cancers using TomoTherapy and other specific treatments. This is a highly specialized field where experience is critical. Gamma West physicians have successfully performed thousands of these procedures. Next generation technologies, specialized treatments, highly experienced and caring physicians make Gamma West the leading provider of radiation oncology in the Intermountain West.

## MAKING AN INFORMED TREATMENT DECISION

*"There are many sources that will be helpful in increasing your understanding of cancer and the various treatment options. In addition to the several associations and government organizations focused on cancer research and education, helpful materials can also be found at your closest Gamma West clinic or on our website at [www.gammawest.com](http://www.gammawest.com). Additionally, it will be important for you to meet and discuss your diagnosis and treatment options with medical professionals dedicated to effectively treating, and in many cases, curing types of cancer. These medical professionals include radiation oncologists and surgeons. Speaking with other cancer survivors can also provide a great deal of hope and support, along with practical information on what to expect. Gamma West can help you connect with other men and women who have utilized TomoTherapy as their curative treatment for particular cancers."*

**John K. Hayes, Jr., M.S., M.D.**  
GWCS President and Medical Director  
Salt Lake City, Utah

## FOR ADDITIONAL INFORMATION

VISIT US AT [WWW.GAMMAWEST.COM](http://WWW.GAMMAWEST.COM) AND FOR  
A CONSULTATION CONTACT US AT THE FOLLOWING  
GAMMA WEST CANCER SERVICES CLINIC LOCATIONS



**GAMMA WEST CANCER SERVICES**  
SALT LAKE CITY, UTAH  
Salt Lake Regional Medical Center  
1050 East South Temple  
Salt Lake City, Utah 84102  
(801) 350-8400

**GAMMA WEST CANCER SERVICES**  
OGDEN, UTAH  
Ogden Regional Medical Center  
425 East 5350 South Suite 180  
Ogden, Utah 84405  
(801) 475-4571

**GAMMA WEST CANCER SERVICES**  
OREM, UTAH  
Timpanogos Regional Hospital  
674 West 800 North Suite B-10  
Orem, Utah 84057  
(801) 852-0210

**GAMMA WEST CANCER SERVICES**  
ST. GEORGE, UTAH  
Gamma West Cancer Services  
1308 East 900 South Unit B  
St. George, UT 84790  
(435) 767-9104

**GAMMA WEST CANCER SERVICES**  
ST. GEORGE, UTAH  
Coral Desert Surgery Center  
1490 East Foremaster Dr. Bldg. C  
St. George, UT 84790  
(435) 627-5327



**GAMMA WEST**  
CANCER SERVICES

[www.gammawest.com](http://www.gammawest.com)

# TOMOTHERAPY<sup>®</sup> ANSWERS

*Non-Surgical Procedure*  
*Superior Treatment Results*  
*Improved Quality of Life*

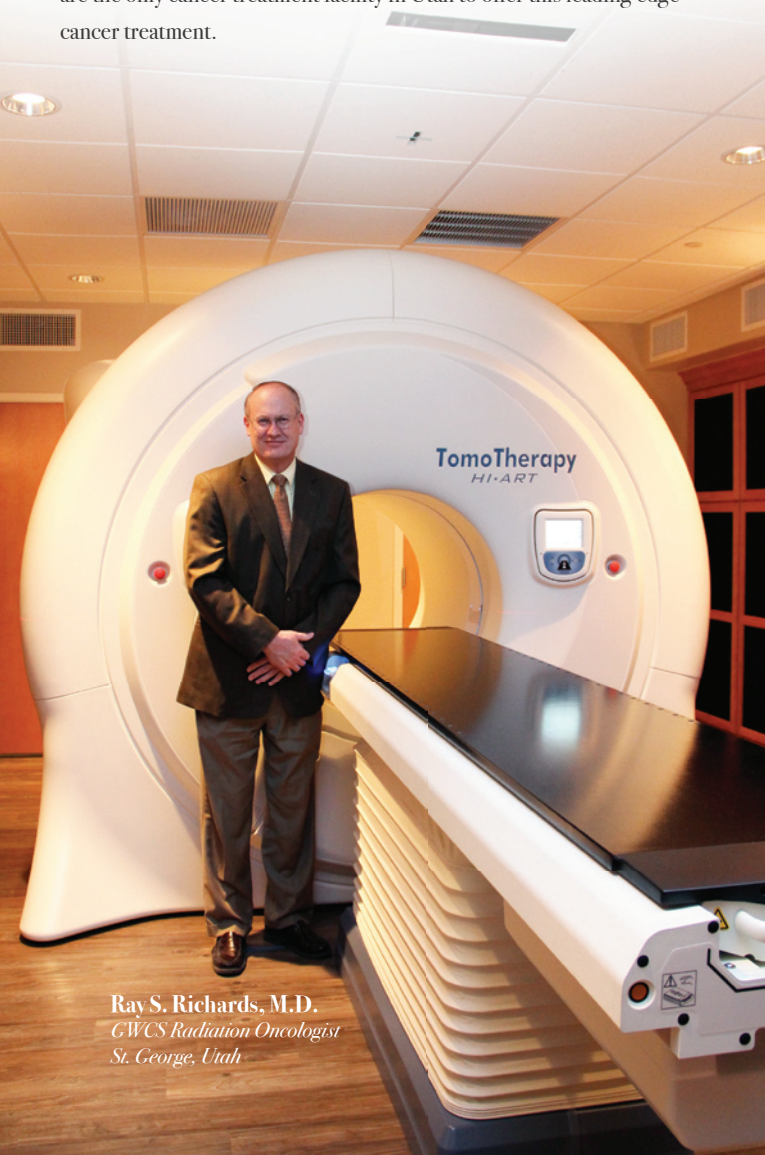


**GAMMA WEST**  
CANCER SERVICES

# “GAMMA WEST RADIATION ONCOLOGISTS WORK CLOSELY WITH PHYSICIANS TO PLAN RADIATION TREATMENTS FOR THE PATIENT WHICH ARE LESS INVASIVE AND RESULT IN CURATIVE OUTCOMES”

## WHAT IS TOMOTHERAPY?

Conventional radiation therapy delivers a wide beam of radiation from only a few angles. The TomoTherapy® treatment system uses its unique CT scanner design to deliver radiation continuously from all angles around the patient, delivering precise beams that conform to tumors and minimize healthy tissue damage. Gamma West Cancer Services offers two TomoTherapy treatment locations in Utah. In partnership with Iasis Healthcare Tomotherapy is available at Davis Hospital and also at our new Gamma West Cancer Services Clinic in St. George. Currently, we are the only cancer treatment facility in Utah to offer this leading edge cancer treatment.



Ray S. Richards, M.D.  
GWCS Radiation Oncologist  
St. George, Utah

## WHY TOMOTHERAPY?

- TomoTherapy is one of the most integrated, advanced systems for comprehensive cancer treatment available today. The all-in-one system lets your physician scan and treat you with a single piece of equipment, which makes it faster, more accurate and convenient.
- Provides highly precise targeting and attacking of cancer cell. This helps to effectively treat hard-to-reach and complex tumors.
- Customizes treatment delivery specifically for you. No two cancers are alike—but conventional radiation therapies often treat them the same way. The TomoTherapy system lets your radiation oncology team design a personalized treatment for you and adjust it at any time during your course of treatment.
- Minimizes damage to surrounding healthy tissue, so you have a lower risk of pain and complications.
- Helps you live your life during the course of treatment. Treatment itself only takes a few minutes a day, and you're in and out in as little as 10 minutes.
- Can often treat cancers that have returned, even if you've already had radiation therapy. Even if you've been told by others that you're not a candidate for more radiation.
- Is noninvasive, and as painless as having a CT scan or an x-ray.
- Can result in fewer and less severe side effects. Many patients feel better than they expected they would while undergoing TomoTherapy treatment.
- Can be used in combination with surgery, chemotherapy and other medications to attack your cancer in many ways at once.

## THE TOMOTHERAPY PROCESS

The TomoTherapy Hi-Art system is a new, integrated way to deliver radiation treatments for cancer. The process makes it easier on clinicians and patients alike.

### Planning

Before beginning a TomoTherapy treatment, the doctor uses 3D images from a combination of scanning technologies (such as CT and MRI) and special software to establish the precise contours for each treatment volume (tumor) and any regions at risk (sensitive organs or structures).

The doctor then decides how much radiation the tumor should receive, as well as acceptable levels for surrounding structures. The Hi-Art treatment system calculates the appropriate pattern, position and intensity of the radiation beam to be delivered, to match the doctor's prescription as closely as possible.

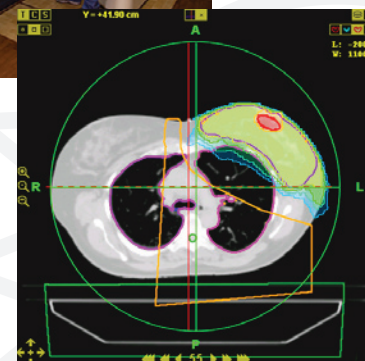
### Patient positioning

As both a treatment delivery machine and a CT scanner, the Hi-Art system allows doctors to take a CT scan just before each treatment. With the scan, they can verify the position of the tumor and, if necessary, adjust the patient's position to help make sure radiation is directed right where it should be.



*TomoTherapy breast cancer treatment plan illustrating specific area of treatment.*

*Treatment is a non-surgical and painless procedure maintaining quality of life.*



### Continuous 360° treatment delivery

The Hi-Art treatment system delivers intensity-modulated radiation therapy (IMRT) with a helical (spiral) delivery pattern. Photon radiation is produced by a linear accelerator (or linac for short), which travels in multiple circles around the patient and moves in unison with a device called a multi-leaf collimator, or MLC. Meanwhile, the couch is also moving—guiding the patient slowly through the center of the ring. Each time the linac makes a loop around the patient it directs a unique, optimized set of radiation beamlets at the tumor. Quite literally, the TomoTherapy process runs rings around cancer!