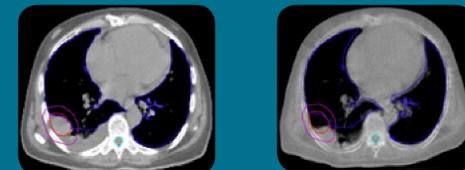


# TREATING PREVALENT CANCERS

TomoTherapy® bringing greater **precision, accuracy** and **quality assurance** to cancer care

## LUNG CANCER

- Ability to retreat previously radiated areas that have re-occurred
- Able to treat the lung tumor while avoiding the spine, bronchi, esophagus, heart and other surrounding healthy tissue
- Daily CT imaging reveals anatomical changes, allowing for precise treatment alignment and the ability to modify and re-optimize treatment plan on a daily basis

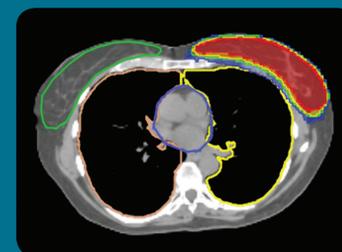


\*\*Initial treatment scan      \*\*5 Days into treatment

\*\* Taking advantage of daily *CTrue* images and adaptive therapy technology, the radiation oncologist decided that after the fifth treatment session, the plan should be modified and re-optimized for the remaining treatments, providing precise radiation treatment and sparing the healthy surrounding tissue.

## BREAST CANCER

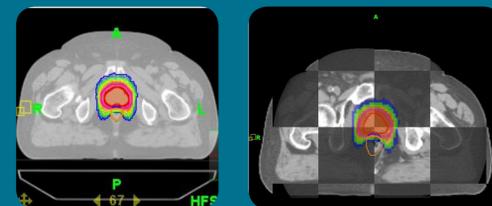
- Provides increased treatment options for breast cancer patients and ability to treat previously radiated areas that reoccurred during later stages of breast cancer
- TomoTherapy® Hi-Art® helical mode of delivery is ideal for curved and elongated tumors such as breast cancer
- Ability to treat the tumor while avoiding the heart, lung, spine and other healthy tissue



\*\* Note that the targeted breast tumor (red) is being treated while avoiding radiation to the nearby organs of the lung and heart.

## PROSTATE CANCER

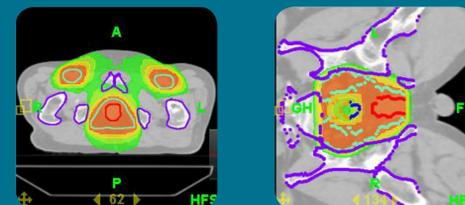
- Challenging to treat prostate due to movement from day to day, daily *CTrue* imaging of the prostate assures treatment accuracy
- Able to treat the prostate while limiting radiation doses to bladder and rectum preventing future genitourinary or gastrointestinal side effects
- Helical delivery allows for a pattern of intensity-modulated radiation therapy (IMRT) to conform to the target volume prescribed by the physician



\*\* Right: Image registration of initial treatment plan and the daily *CTrue* image to assure correct alignment of the prostate gland.  
Left: Treatment plan identifying treatment target of the prostate in red.

## ANAL/RECTAL CANCER

- Due to the ability to sculpt small, powerful and precise beamlets of radiation, TomoTherapy, is able to treat hard to reach tumors such as rectal tumors
- Reduction of radiation side effects due to radiation beamlets moving around the patient in a 360 degree motion versus one highly focused beam
- Able to treat several target areas while avoiding bone marrow, anterior bowel and bladder



\*\* Note: The treatment areas of the tumor and nodes (red) while avoiding radiation to the bone and bone marrow and bladder (purple).