

Proton Therapy for Lung Cancer

Lung cancer is responsible for the most cancer-related deaths in Texas, but treatments like proton therapy can make a difference. Proton therapy is a specialized type of radiation therapy that is often used to treat cancers near delicate or critical parts of the body, such as the lungs. Proton therapy targets the cancerous cells while minimizing exposure to surrounding healthy tissue, lowering the risk for potential side effects.

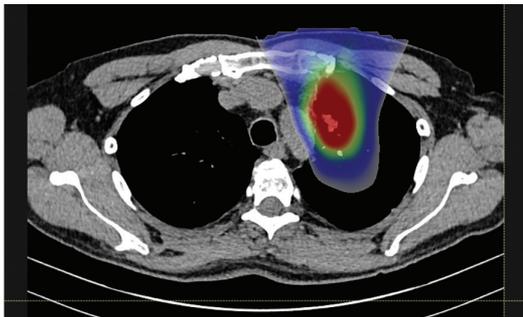
How Proton Therapy Works

During treatment, a narrow proton beam is guided to focus the highest energy of the beam at the location of the tumor in the lungs. While the proton beam is being delivered, it can also:

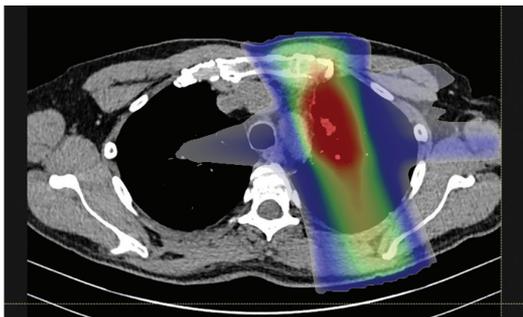
- Be designed to conform to the shape, size and depth of tumors
- Limit excess radiation near surrounding areas of the body

Precise Radiation Targeting

Once the proton beam enters the body at the targeted lung tumor, less radiation is administered. Then, after the proton beam hits the tumor, little to no radiation is delivered to help protect nearby tissue.



Proton Therapy



Conventional X-Ray Therapy

Red: High Radiation Dose
Green: Intermediate Radiation Dose
Blue: Low Radiation Dose

Proton Therapy Candidates

Proton therapy delivers very precise doses of radiation to the exact location of lung cancer, making it a good option for patients whose cancer is limited to the chest and regional lymph nodes. Patients should also consider proton therapy if they:

- Have stage I, II or III lung cancer
- Have limited or poor pulmonary function
- Had prior radiation therapy
- Need concurrent chemotherapy

More Benefits of Proton Therapy

- Non-invasive and may reduce side effects
- May reduce recurrence rates
- May have less effect on quality of life during and after treatment
- May treat areas near previously irradiated volumes
- Potentially faster recovery time after treatment

Refer a Patient Today

To refer a patient to Texas Center for Proton Therapy, fax the applicable referral form and the patient's medical records to the patient intake team at 469-420-9619 or visit www.texascenterforprotontherapy.com and click the "Request an Appointment" button in the upper right-hand corner of the home page. If you need further assistance or have questions, please call Texas Center for Proton Therapy at 469-513-5500.



TEXAS CENTER
for **PROTON THERAPY**

Targeting Cancer, Precisely

Texas Center for Proton Therapy

Texas Center for Proton Therapy provides an advanced lifesaving cancer treatment to North Texas — bringing more hope to cancer patients.

Leading-Edge Technology

Texas Center for Proton Therapy offers some of the most advanced treatments available with next-generation proton and imaging technology.

- **Pencil-beam scanning** combined with 4D treatment planning, allows for adaptation to complex-shaped tumors, improves dose conformity and reduces excess radiation to normal tissues.
- **Cone-beam computed tomography** (cone-beam CT) provides 3D volumetric imaging, which delivers improved anatomic visualization, better patient positioning and more precise targeting of cancerous tumors.
- **PET/CT** is a powerful imaging tool used to diagnose, stage or restage cancer, as well as evaluate the effectiveness of treatment.
- **3-Tesla MRI** is double the strength of the clinical-setting standard and provides extremely clear and vivid images that can often be performed faster, decreasing overall scan time. The larger bore opening also has a more spacious feel and can accommodate larger patients.



Sources: American Cancer Society, American Lung Association, American Society of Clinical Oncology, Centers for Disease Control and Prevention, National Cancer Institute, Texas Cancer Registry

469-513-5500

www.TexasCenterForProtonTherapy.com



Clinical Expertise

With more than 75 years of combined experience delivering proton therapy, our physicians, nurses and scientists provide high-quality care for our patients.

Cancers Treated by Proton Therapy

- Bladder
- Brain
- Breast
- Esophageal
- Head, neck and skull base
- Liver
- Lung and thorax
- Lymphoma
- Pancreatic
- Pediatric
- Prostate
- Recurrent disease
- Sarcoma
- Spinal

Patient-Centered Approach

Texas Center for Proton Therapy has a patient support services team dedicated to making patients' lives easier so they can focus on their care and recovery. Patient support services include:

- Focused therapeutic activities for patients, families and caregivers
- Friendship Room activities and child play area
- Assistance with logistics of care and travel
- On-site tours and patient orientations



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