

Lung Cancer Treatment

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SHRI Video Training Series | Iowa Cancer Registry
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Treatment

The two major types of lung cancers:

Small Cell Lung Cancer SCLC

Non-Small Cell Lung Cancer NSCLC

two completely different diseases

different recommended therapies

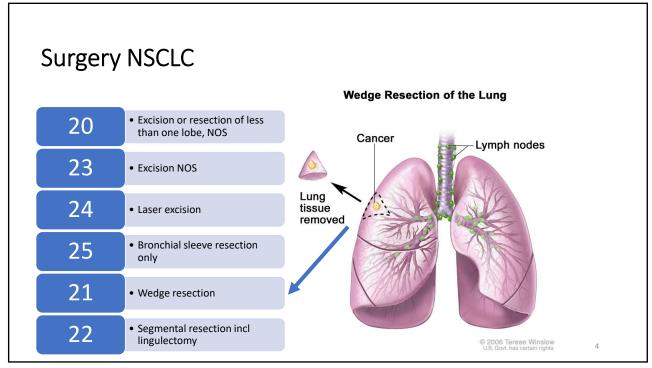
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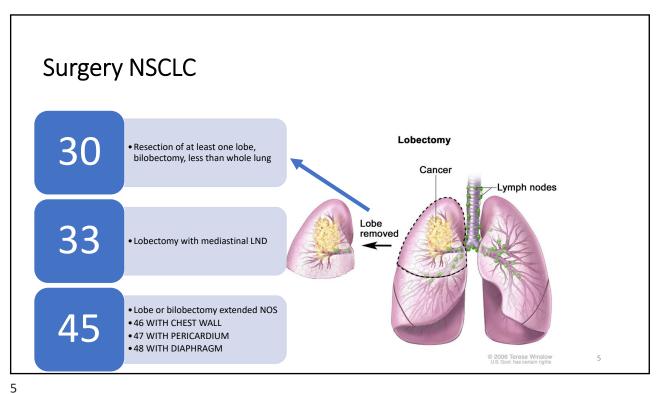
Non-small cell lung cancers (squamous, adenoca and large cell carcinoma)

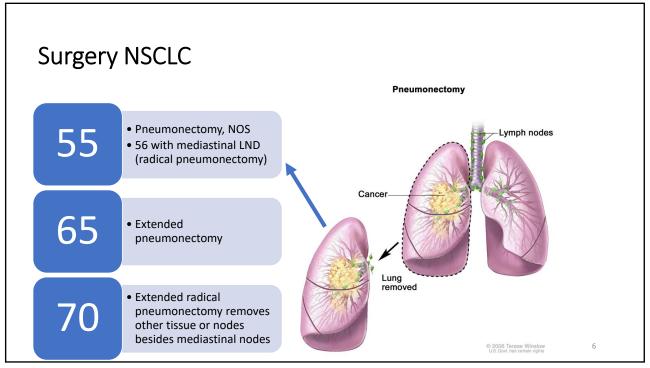
- ►Surgery common Stage I, II, III
- ► Radiation EBRT
- ► Ablation used rarely in lung cancer
- ►Chemo Stage I, II, III
- ► Targeted therapy; Immunotherapy

Treatment: NSCLC

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Surgery NSCLC

- Exploratory thoracotomy
- Mediastinotomy
- Endobronchial laser surgery

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VATS

- Video assisted thoracic surgery
 - Minimally invasive
 - Thoracoscopy through smaller cuts than open surgery
 - Used to remove part of lung because of cancer
- Still code the type of surgery, i.e. lobectomy according to the surgery codes.

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Treatment – Radiation

- External radiation therapy
 - EBRT, ERT, 3D-CRT, IMRT, SABR

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Treatment – Radiation

Stereotactic body radiation therapy

- External radiation therapy
- Uses special equipment
- Also called stereotactic external beam radiation therapy and stereotaxic radiation therapy

Treatment – Radiation

Stereotactic radiosurgery

- Brain mets from lung cancer
- Does not involve surgery

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Treatment - Radiation

 Palliative radiation therapy is useful in reducing symptoms from metastatic disease, such as bone pain or brain swelling.

Treatment - Chemo Drugs By mouth Intravenous Directly in CSF or organ

Treatment - Chemo

Common chemo agents used to treat lung CA include:

- Cisplatin & VP-16 (Etoposide), with or without other agents such as vincristine, methotrexate and adriamycin. <u>Note:</u> Cisplatin/VP-16 is very commonly given as 1st course Tx'ment.
- Cytoxan, Adriamycin, and Vincristine (CAV)

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Treatment - Other

Targeted Drug therapy

- Attacks specific cancer cells
- Examples: Monoclonal antibodies and tyrosine kinase inhibitors
- Used for advanced, metastatic or recurrent NSCLC

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Treatment - Other

Monoclonal Antibodies

- VEGF
- EGFR
- PD-1

Tyrosine kinase inhibitors

- EGFR
- Kinase inhibitors

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NSCLC Neoadjuvant Therapy

 Neoadjuvant therapy, which has been considered as an approach to improve survival in patients with resectable NSCLC, is a hotly debated topic. A systematic review of 32 randomized trials involving 10,000 patients revealed that there was no difference in survival between preoperative and postoperative chemotherapy. June 6, 2020

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Treatment: SCLC

► Small cell lung cancers

- respond to chemotherapy and radiation
- usually too far advanced at diagnosis for a surgical cure
- ► Surgery not recommended

Treatment: SCLC

► Small cell lung cancers

- ► Limited-stage disease (LD)
 - ► Chemo and radiation
 - ► Combined chemo alone
 - ▶PCI [prophylactic cranial irradiation]
- ► Extensive-stage disease (ED)
 - ► Combination chemo
 - ► Radiation therapy
 - **▶**PCI

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Cyberknife Radiation Therapy

- Brain mets
- · Lung tumors
- Non-invasive procedure
- STORE Manual treatment planning technique is 08 for Gammaknife

08	Stereotactic radiotherapy or radiosurgery, Gamma Knife®	Treatment planning using stereotactic radiotherapy/radiosurgery techniques which uses a Cobalt-60 gamma ray source and is specifically described as Gamma Knife®. This is most commonly used for treatments in the brain.

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