

Lung Cancer Treatment

Presented by Melissa Riddle, ODS-C SHRI Video Training Series | Iowa Cancer Registry March 2025



Treatment

- The two major types of lung cancers:
 - Non-small cell lung cancer (NSCLC)
 - Small cell lung cancer
- These are two completely different disease AND
- Different treatment modalities

Treatment: NSCLC

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
 - Systemic Therapy
 - Chemo Stage I, II, III

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 Targeted therapy; Immunotherapy

Treatment: SCLC

Small cell lung cancers

- Usually diagnosed at an advanced stage
- Surgery is typically not recommended or possible due to stage
- Responds better to chemotherapy and/or radiation
 - Immunotherapy may also be administered





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Treatment: SCLC

Small cell lung cancers

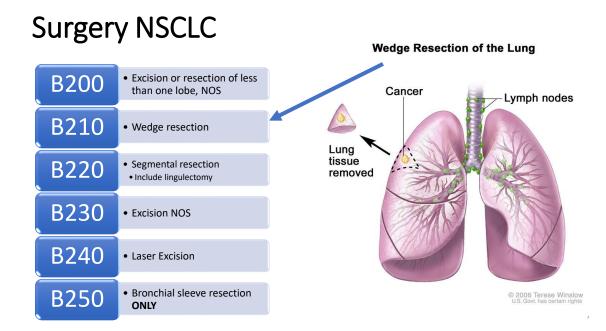
- Limited-stage disease (LS)
 - Chemo and radiation
 - Combined chemo alone
 - PCI [prophylactic cranial irradiation]
- Extensive-stage disease (ES)
 - Combination chemo
 - Radiation therapy
 - PCI



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Surgery Codes

Non-Small Cell Lung Cancer



Lingula Clarification

Lingula of lung

- Notch on lower portion of LUL (arrow)
- Plays a pivotal role in respiration
- Assists in filtration and humidification of inhaled air

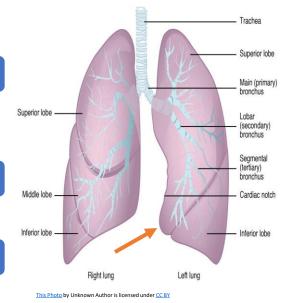
Lingula sparing

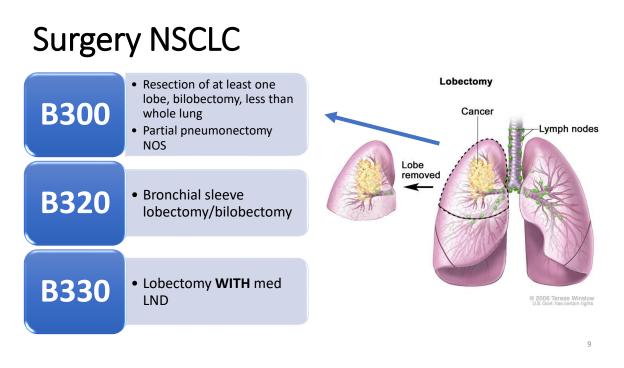
- Lingula is not resected
 - Lobectomy WITHOUT lingulectomy code surgery to segmental resection B220

Lingulectomy B220

• Only the lingula is resected

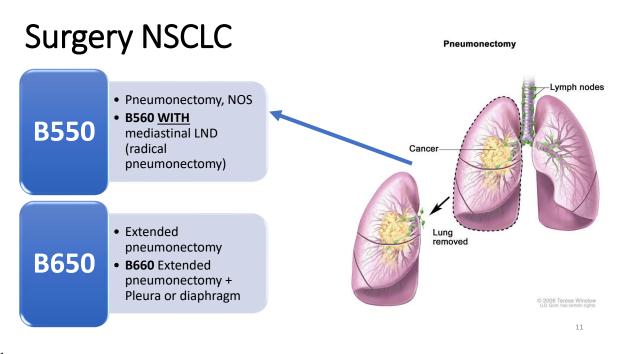
Reference: October 2023 NAACCR Webinar, Lung part 1





Surgery NSCLC

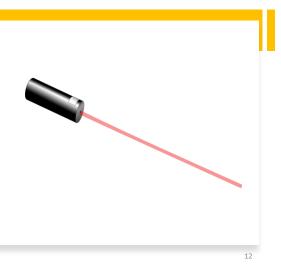
B450	Lobe/Bilobectomy Extended NOS
B460	• WITH Chest wall
B470	• WITH Pericardium
B480	• WITH Diaphragm

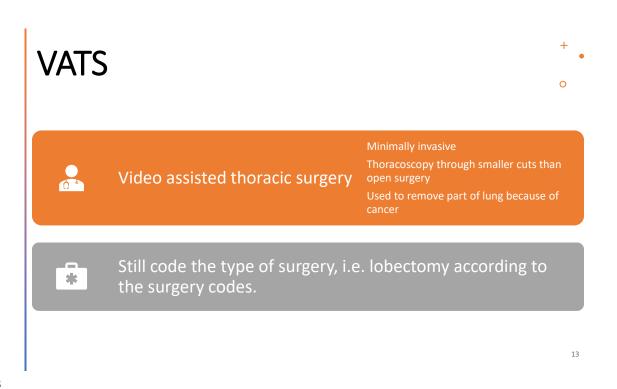


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Laser Ablation

- Laser ablation (YAG laser)
 - No pathology report (no specimen)
 - Code B120
 - Pathology report (specimen submitted)
 - Code B240
 - If also for palliative purposes:
 - Part of first course therapy only when it destroys or modifies cancer tissue





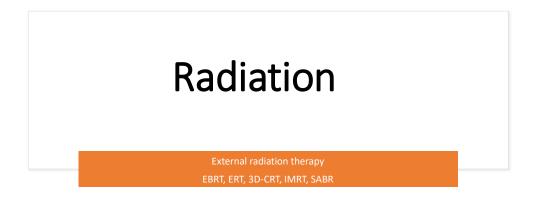
Procedures NOT Coded

Exploratory thoracotomy

• Chest is opened to inspect heart, lungs and mediastinum

Mediastinotomy

• Evaluation of mediastinal LN and primary (if visible)



Radiation

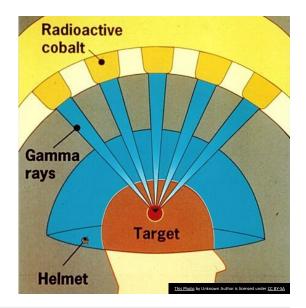
- Stereotactic body radiation therapy (SBRT)
 - External radiation therapy
 - Uses special equipment
 - Also called stereotactic external beam radiation therapy and stereotaxic radiation therapy
 - Planning Technique: 06



Radiation

Stereotactic radiosurgery

- External radiation therapy
- Brain mets from lung cancer
 - Gamma Knife
 - Planning Technique: 08
- Does not involve surgery



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Radiation

- Palliative radiation therapy is useful in reducing symptoms from metastatic disease, such as bone pain or brain swelling.
- **Prophylactic cranial irradiation** (PCI) Radiotherapy in people with <u>small cell lung cancer</u> who has limited disease to kill any cancer cells that might have spread into the brain but too small to see.



Systemic Therapy

- Neoadjuvant therapy -
 - To help shrink the tumor in order to perform a less extensive surgical resection
 - Not typically performed for lung cancer
- Adjuvant therapy
 - Given after surgery to try to kill any remaining cancer cells

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Chemotherapy



Non-small cell lung cancer

- Locally advanced -
 - Alone or in combination with radiation as the main treatment option
 - Not able to undergo surgery
- · Given as intravenous or pill form
- Common drugs:
 - Cisplatin
 - Carboplatin
 - Paclitaxel (Taxol)
 - Abraxane
 - Taxotere

• Full listing of NSCLC drugs:

https://www.cancer.gov/about-cancer/treatment/drugs/lung

• SEER*Rx

https://seer.cancer.gov/seertools/seerrx/

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Chemotherapy

- Small Cell Lung Cancer
 - <u>Limited Stage</u>
 - Often given with radiation
 - <u>Extensive Stage</u>
 - Given with or without immunotherapy
 - Common drugs:
 - Topotecan
 - Taxotere
 - Taxol
 - Gemzar



• List of all drugs for SCLC:

https://www.cancer.gov/about-cancer/treatment/drugs/lung

• SEER*Rx

https://seer.cancer.gov/seertools/seerrx/

Immunotherapy

NSCLC

• PD-1 inhibitor

- Opdivo
- Keytruda
- Libtayo
- PD-L1 inhibitor
 - Tencentriq
 - Imfinzi
- <u>CTLA-4 inhibitor</u>
 - Yervoy
 - Imjudo

• SCLC

- <u>PD-L1 inhibitor</u> (w/ etoposide and platinum chemo drug)
 - Tecentriq
 - Imfinzi
- Bispecific T-cell
 engager (BiTE)
 - Tarlatamab (Imdelltra)

Targeted Therapy -NSCLC

- VEGF inhibitors
- KRAS Inhibitors
- EGFR Inhibitors
 - Depends upon the mutation:
 - Exon 19 or 21: Afatinib; Erlotinib; Erlotinib
 - S7681, L861Q, or G719X: Aftatinib; Amivantamab; Dacomitnib
 - Exon 20: Amivantamab

- ALK Inhibitors
- ROS1 Inhibitors
- BRAF Inhibitors
- RET Inhibitors
- MET Inhibitors
- HER2-directed drugs

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• TRK Inhibitors

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Questions?



melissa-riddle@uiowa.edu