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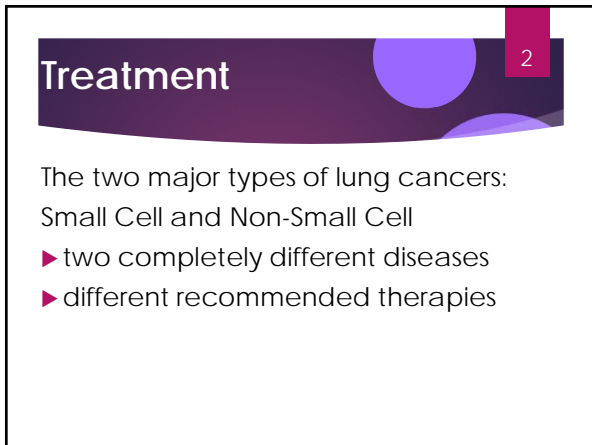
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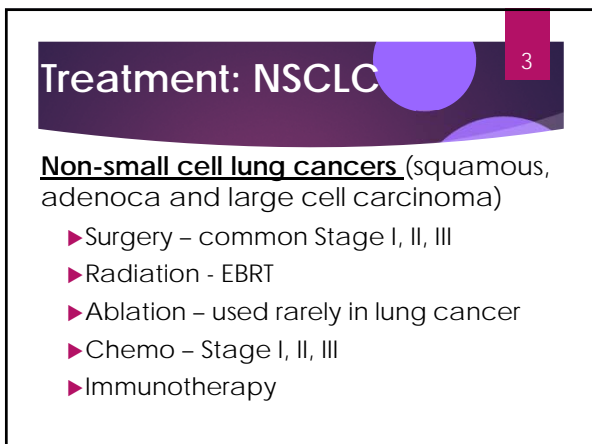
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### Surgery NSCLC

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**20** • Exc or resection of less than one lobe, NOS

**23** • Excision NOS

**24** • Laser excision

**25** • Bronchial sleeve resection only

**21** • Wedge resection

**22** • Segmental resection incl lingulectomy

**Wedge Resection of the Lung**

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### Surgery NSCLC

5

**30** • Resection of at least one lobe, bilobectomy, less than whole lung

**33** • Lobectomy with mediastinal LND

**45** • Lobe or bilobectomy extended NOS

**Lobectomy**

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### Surgery NSCLC

6

**55** • Pneumonectomy, NOS

**65** • Extended pneumonectomy

**Pneumonectomy**

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**Surgery NSCLC** 7

- ▶ Exploratory thoracotomy
- ▶ Mediastinotomy
- ▶ Surgery of distant site
- ▶ Endobronchial laser surgery

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**VATS** 8



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**Treatment – Radiation** 9

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

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Treatment – Radiation 10

Stereotactic body radiation therapy

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

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Treatment – Radiation 11

Stereotactic radiosurgery

- ▶ Brain mets from lung cancer
- ▶ Does not involve surgery

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Treatment - Radiation 12

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

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**Treatment - Chemo** 13

- ▶ Drugs
  - ▶ By mouth
  - ▶ Intravenous
  - ▶ Directly in CSF or organ

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**Lung Cancer Systemic Therapy** 14

**Lung Cancer Systemic Therapy**

<b>Non-Small Cell Lung Cancer</b>	
<b>Chemotherapy</b>	<b>Biological Response Modifiers</b>
Abraxane (Protein-bound Paclitaxel)	Atezolizumab (Tecentriq, HPDL1208A)
Afinitor (Everolimus)	Bevacizumab (Avastin)
Abiraterone (Zytiga)	Carbimazole (Famustromab)
Brinto (Atezolizumab)	Keytruda (Pembrolizumab)
Carboplatin (Paraplatin)	Necitumumab (BMS-853)
Cartisomab (Zykadia)	Opdivo (Nivolumab)
Crizotinib (Xalkori)	
Erlotinib (Tarceva, Erlotinib Hydrochloride)	
Docetaxel (Taxotere)	
Defetinib (Dassa)	
Gilotrif (Afatinib)	
Gemtazar (Gemzar)	
Methotrexate (Folex, Folex PFS, Hexate, Hexate AQ)	
Methotrexate (Folex, Folex PFS, Hexate, Hexate AQ)	
Paclitaxel (Taxol)	
Pemetrexed (Alimta)	
Trastuzumab (Herceptin)	
Vincristine (Navelbine)	

NOTE: Two common drug combinations: (1) Carboplatin & Taxol and (2) Gemzar & Cisplatin

**Small Cell Lung Cancer--Chemotherapy Only**

Afinitor (Everolimus)	Mechlorethamine (Mustargen, Nitrogen Mustard)
Doxorubicin (Adriamycin)	Methotrexate (Folex, Folex PFS, Hexate, Hexate AQ)
Etoposide (Etoposin, Etopophos)	Topotecan (Hycamtin)

(Coding Systemic Therapy: Handout, NCRA Presentation 5/23/18)

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**Treatment - Chemo** 15

Common chemo agents used to treat lung CA include:

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

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**Treatment - Other** 16

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** 17

Monoclonal Antibodies

- ▶ VEGF
- ▶ EGFR
- ▶ PD-1

Tyrosine kinase inhibitors

- ▶ EGFR
- ▶ Kinase inhibitors

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**Treatment - Other** 18

Laser Therapy

Photodynamic therapy (PDT)

Cryosurgery

Electrocautery

Watchful Waiting

New types: Chemoprevention, Radiosensitizers

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## Treatment: SCLC 19

- ▶ **Small cell lung cancers**
  - ▶ respond to chemotherapy and radiation
  - ▶ usually too far advanced at diagnosis for a surgical cure
  - ▶ Surgery not recommended

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## Treatment: SCLC 20

- ▶ **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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## Clinical Trials 21

Study ID	Study Title	Conditions	Interventions
1	Phase II Randomized Trial of Docetaxel, Irinotecan, and Gefitinib Versus Docetaxel and Gefitinib in Patients With Advanced Lung Cancer	Lung Cancer	Docetaxel Irinotecan Gefitinib
2	Use of Biomarker Testing to Inform Therapy in First Relapsed Squamous Non-Small Cell Lung Cancer	Lung Cancer	Biomarker Testing Chemotherapy
3	Supportive Palliative Care Versus Early Integrated Palliative Care in Patients With Advanced Lung Cancer	Lung Cancer	Supportive Palliative Care Early Integrated Palliative Care
4	PRELIS: Biomarker Testing for Lung Cancer (PRELIS)	Lung Cancer	Biomarker Testing Chemotherapy
5	Long-Term Survival After First Relapse in Patients With Squamous Non-Small Cell Lung Cancer	Lung Cancer	Chemotherapy Supportive Care
6	Study of Supportive Palliative Care in Patients With Advanced Lung Cancer (SUPPORTIVE CARE)	Lung Cancer	Supportive Palliative Care Standard of Care
7	Supportive Palliative Care in Patients With Advanced Lung Cancer (SUPPORTIVE CARE)	Lung Cancer	Supportive Palliative Care Standard of Care
8	Supportive Palliative Care in Patients With Advanced Lung Cancer (SUPPORTIVE CARE)	Lung Cancer	Supportive Palliative Care Standard of Care
9	Early Integrated Palliative Care in Patients With Lung Cancer	Lung Cancer	Early Integrated Palliative Care Standard of Care

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# Questions?

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