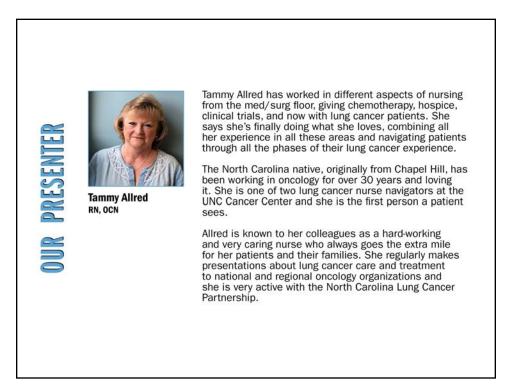


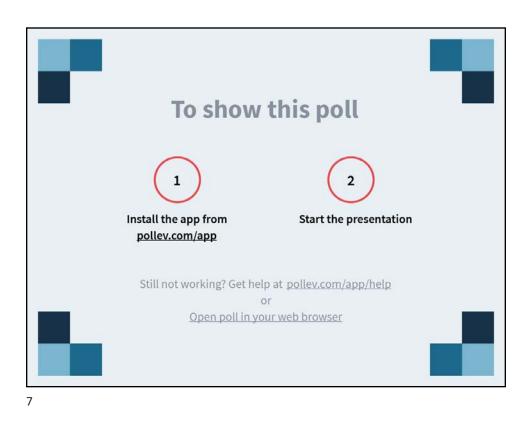


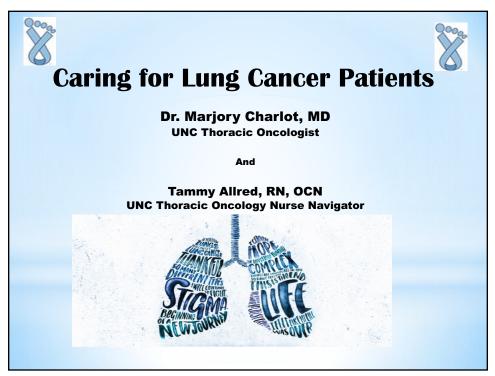
Marjory Charlot MD, MPH, MSc

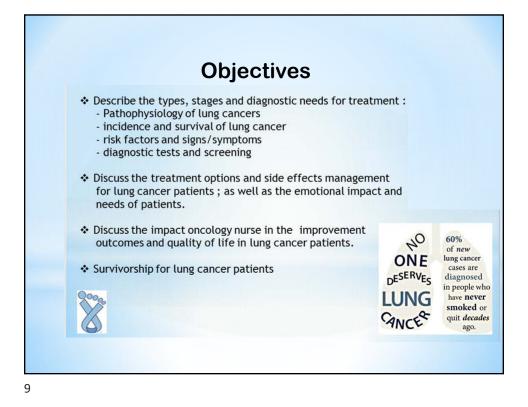
Dr. Marjory Charlot specializes in the medical management of lung cancer with a particular interest in locally advanced and metastatic disease. Her research interests include racial disparities in cancer outcomes, interventions to improve cancer care delivery for medically underserved populations, and the influence of patient and provider characteristics on cancer outcomes. Her most recent project focuses on patient and community engagement to help address low minority patient participation in cancer clinical trials.

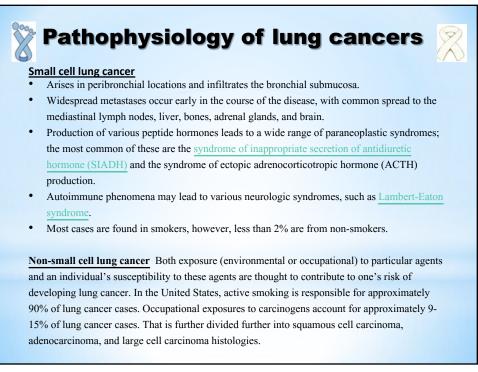


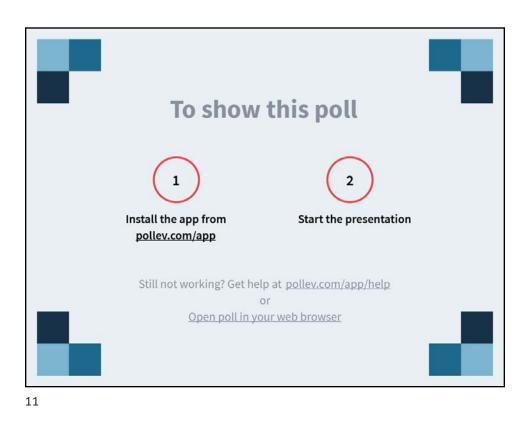




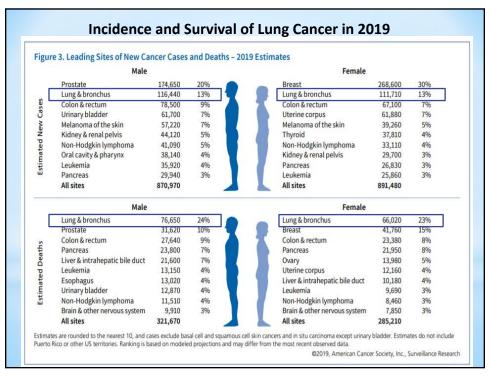


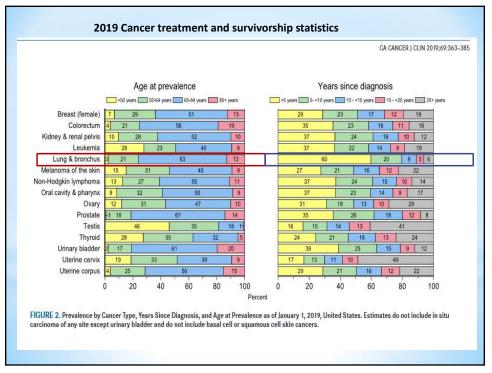


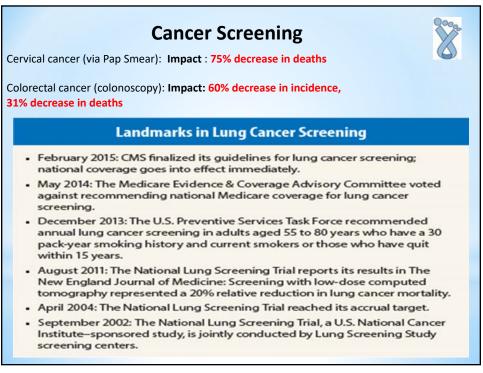




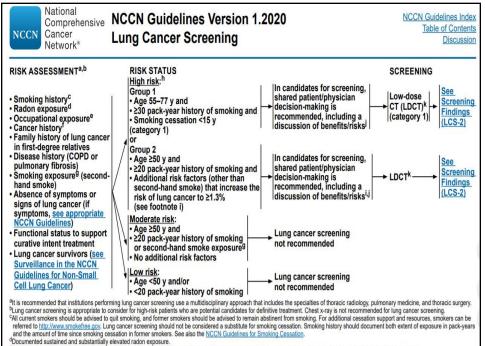


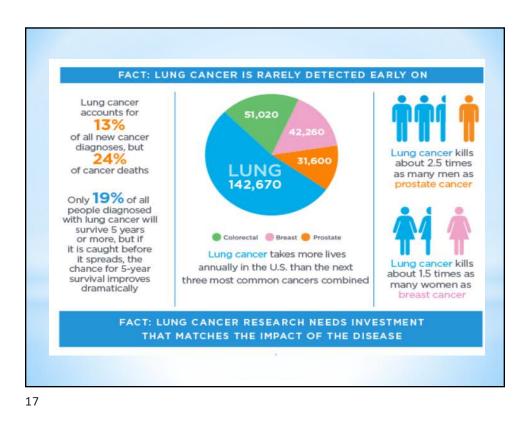


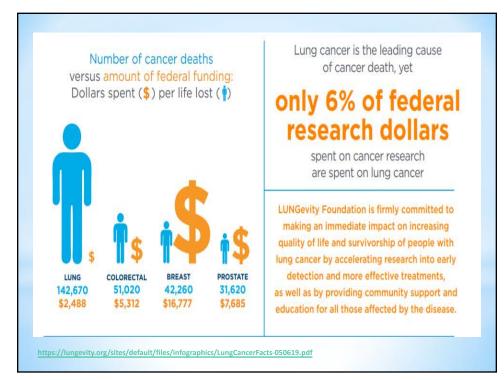


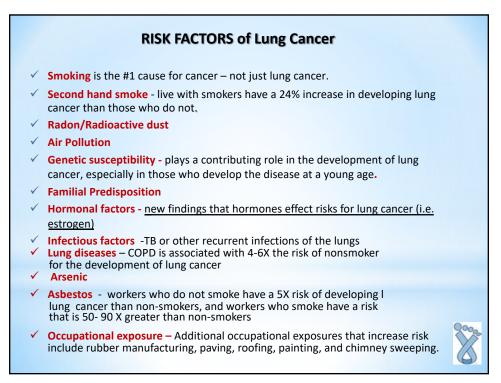




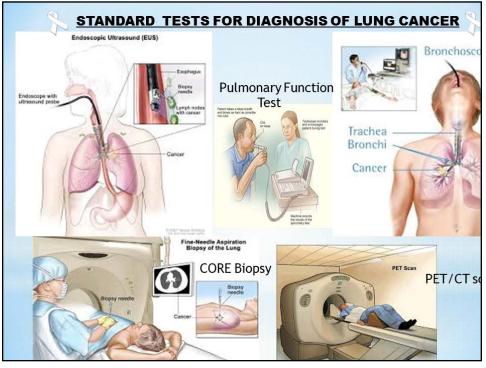


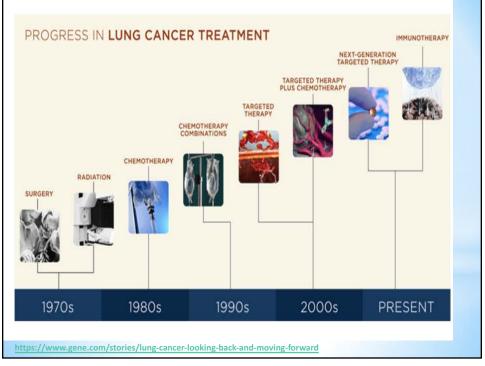


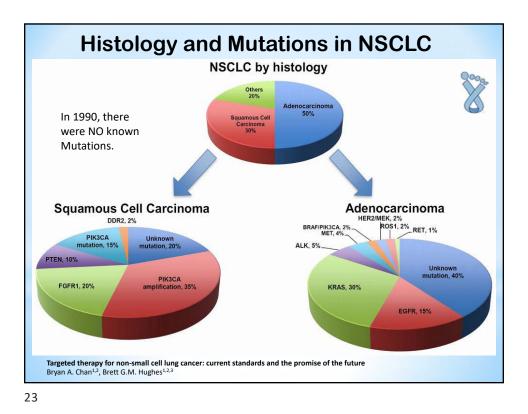


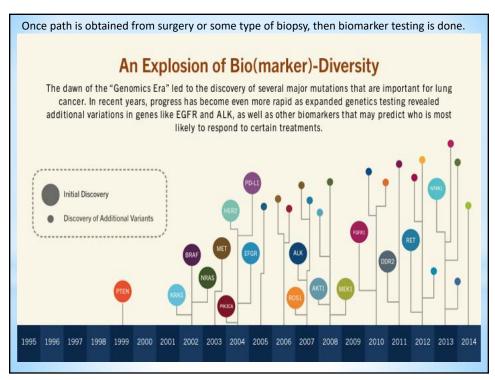


| Symptoms and Si | igns of Lung Cancer |
|--|--|
| Symptoms and signs from primary | tumor |
| Central Tumors Cough Hemoptysis Shortness of breath Wheezing Postobstructive pneumonia | Peripheral Tumors Pain Shortness of breath Pleural effusion Cough |
| Symptoms and signs from regional | Ispread |
| Brachial nerve root compression (Brachial nerve root compression t Esophageal compression (dyspha Airway compression (dyspnea an | hoarseness) midiaphragm and worsening dyspnea) Horner syndrome) by superior sulcus tumors agia) d superior) |
| Symptoms and signs from metasta | atic spread |
| Brain metastases Spinal cord compression Bone pain Liver metastases Hepatomegaly | |
| Paraneoplastic syndromes | Commonly associated histology |
| Hypercalcemia Trousseau syndrome Clubbing Hypertrophic pulmonary osteoarthropathy SIADH Ectopic ACTH production | Squamous cell carcinoma Adenocarcinoma All types Non-small cell carcinoma Small cell carcinoma Small cell carcinoma |
| Eaton-Lambert syndrome Central nervous system | Small cell carcinoma Multiple |
| SIADH: Syndrome of inappropriate ACTH: Adrenocorticotropic hormor | e secretion of antidiuretic hormone |

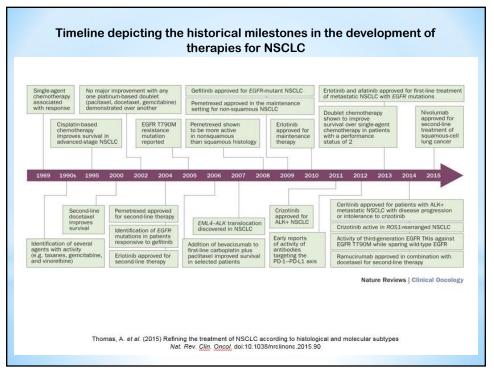


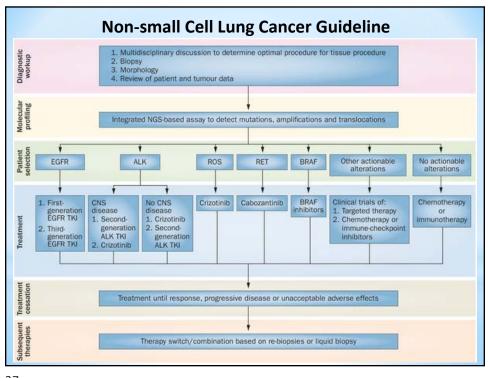


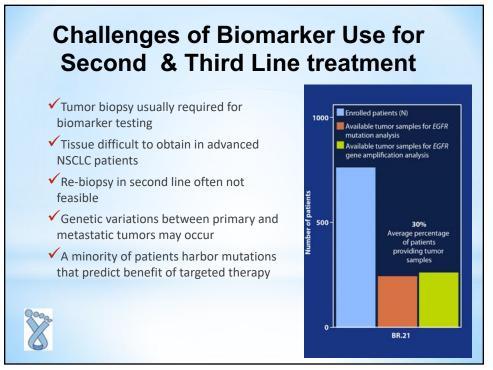


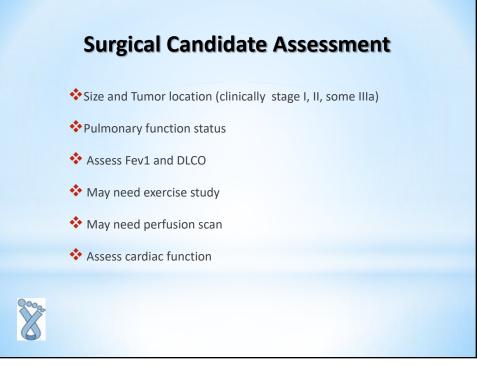


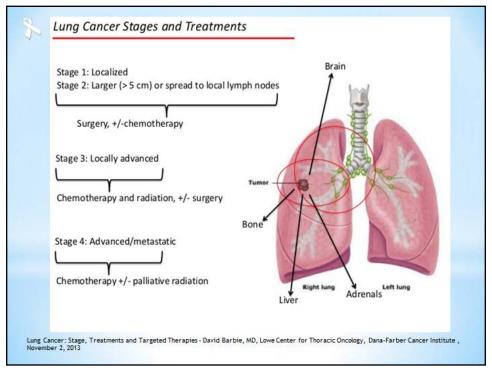
| | Therapies in NSCLC | | | |
|------------|--------------------|---------------|--------------------|-----------------------|
| | Gene | Alteration | Frequency in NSCLC | |
| | AKT1 | Mutation | 1% | |
| | ALK | Rearrangement | 3-7% | |
| | BRAE | Mutation | 1-3% | |
| | DDR2 | Mutation | ~4% | |
| | EGFR | Mutation | 10–35% | |
| | EGER1 | Amplification | 20% | |
| | HER2 | Mutation | 2-4% | |
| | KRAS | Mutation | 15–25% | |
| | MEK1 | Mutation | 1% | |
| | MET ^a | Amplification | 2-4% | |
| | NRAS | Mutation | 1% | |
| | PIK3CA | Mutation | 1–3% | |
| 00- | PTEN | Mutation | 4-8% | \star = drug for tx |
| 12 million | RET | Rearrangement | 1% | |
| S | ROS1 ^a | Rearrangement | 1% | |











Patient Characteristics to Consider in Treatment Decisions

💠 Age

Co-morbidities

PS 0, 1 vs. PS 2

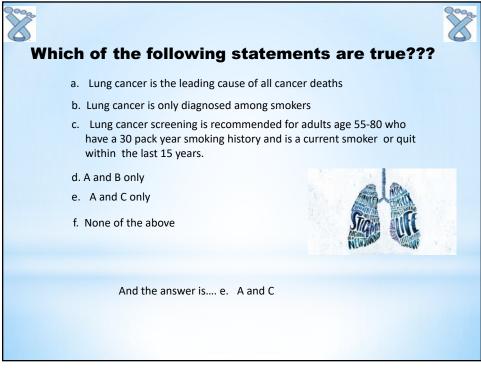
Non-squamous vs. squamous histology

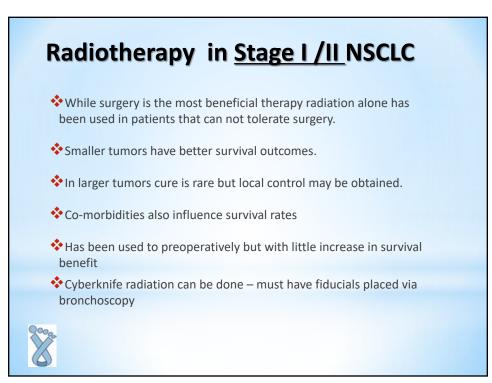
Mutation positive vs. mutation wild type
Principally EGFR

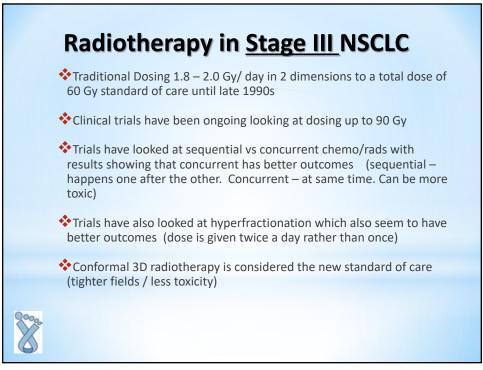
Non-smoker vs. smoker

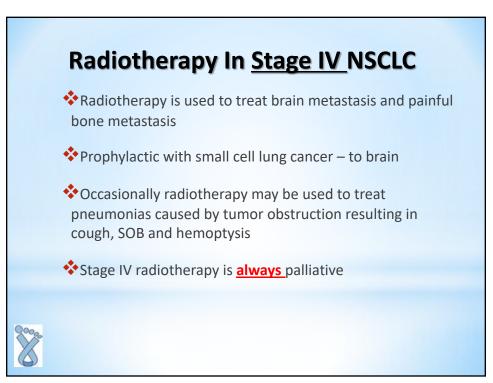
31



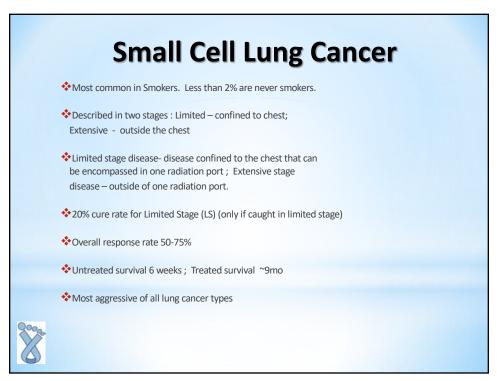


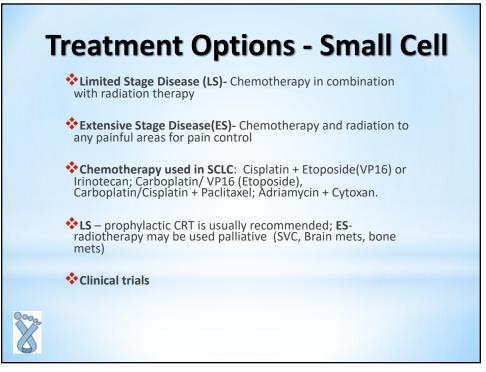


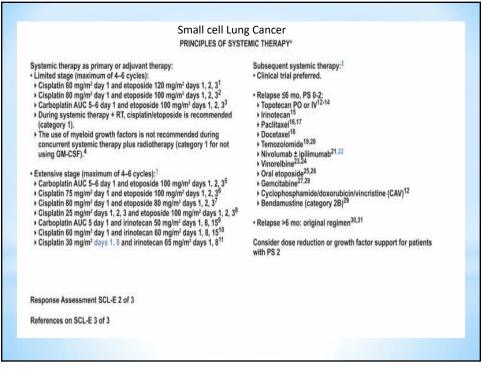


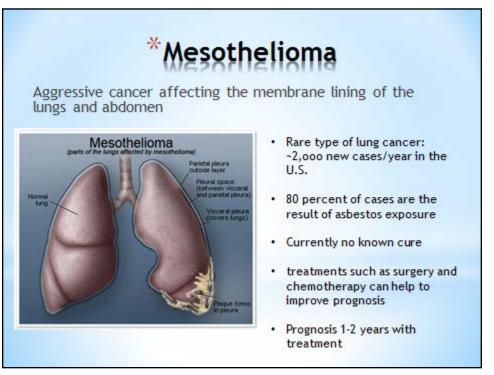




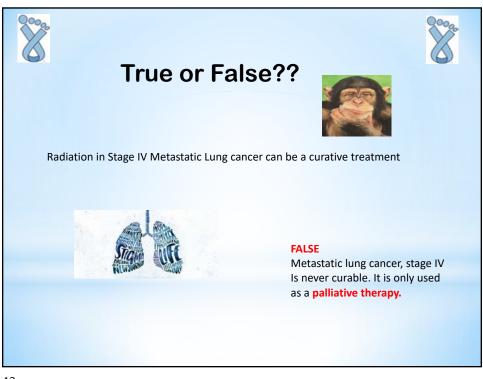


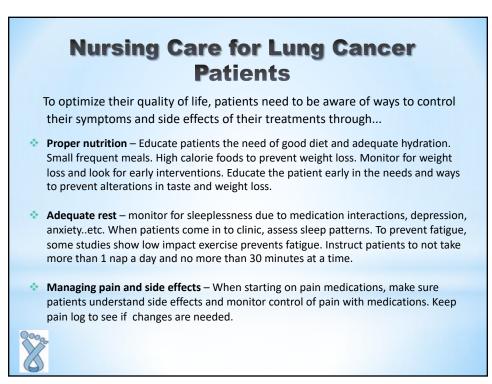


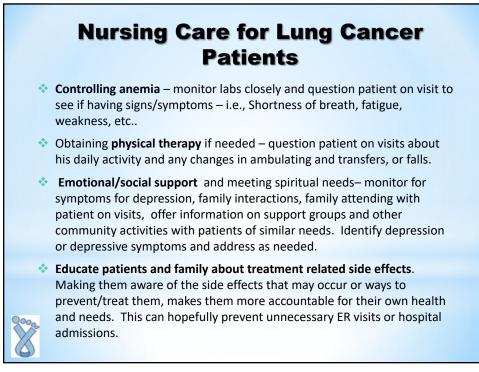


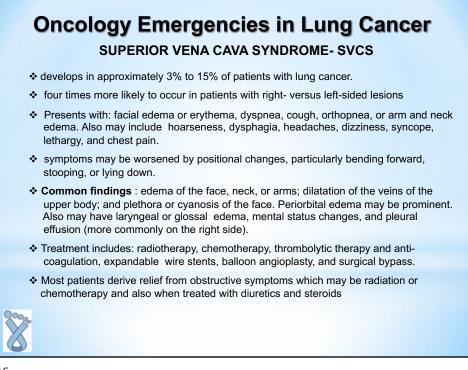


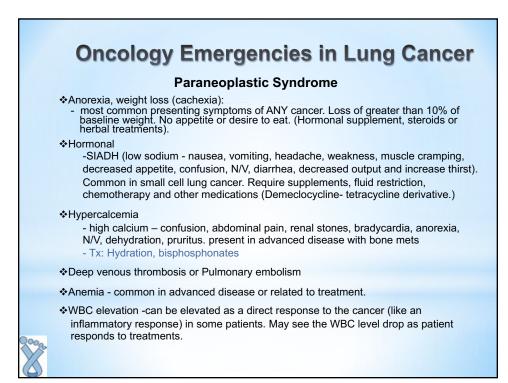


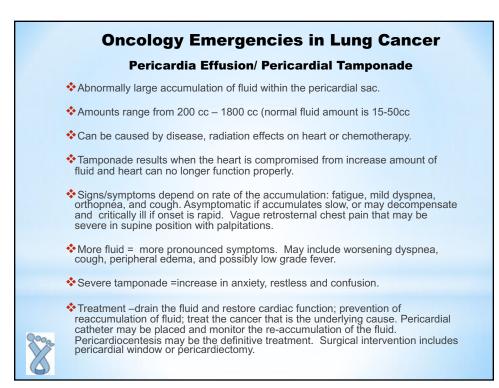








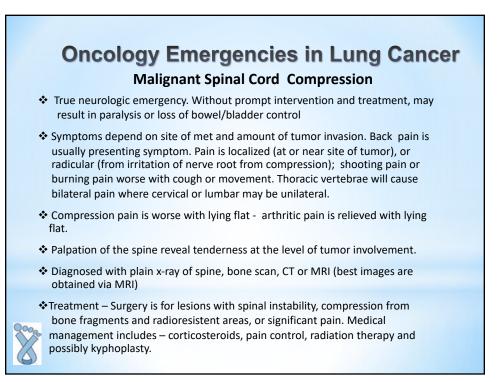


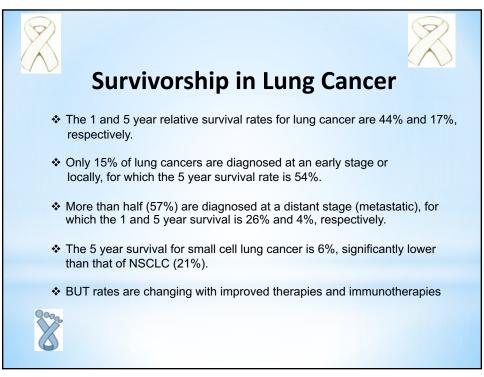


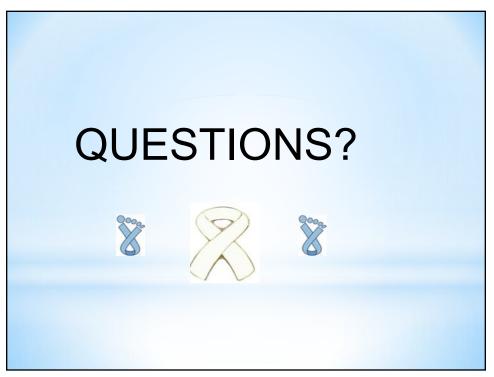


- Excess accumulation of pleural fluid within the pleural space and a common complication of cancer
- Malignant pleural effusion is common fluid may appear to be exudate
- Symptoms depend on the amount of fluid present and rate of reaccumulation: shortness of breath, dry cough, pleuritic chest pain, orthopnea, ipsilateral shoulder pain or discomfort
- Can become emergent when large amounts of fluid are present and a mediastinal shift may exist that can lead to hemodynamic compromise. If mediastinal shift occurs, trachea may deviate to the opposite side. Decreased, absent breath sounds, or rub may be heard.
- Diagnosed with CXR or CT scan

Treatment – thoracentesis to drain off fluid, placement of pleurex catheter, or pleurodesis (sclerosing of the pleura with talc) or pleurectomy









UNC Lineberger Cancer Center www.cancer.med.unc.edu

Cancer Grace CANCERGRACE.org

American Cancer Society www.cancer.org

National Cancer Institute www.cancer.gov

Cancer Care www.cancercare.org

NC Radiation Protection http://www.ncradiation.net/ NC Lung Cancer Initiative www.lungcancerinitiativenc.org

Never Smokers with Lung Cancer www.neversmokers.com

Lung Cancer Alliance www.lungcanceralliance.org

I CAN COPE American Cancer Society 1-800-ACS-2345

Chemocare.com



