

# Resectable Lung Cancer

- Clinical stages I-IIIA may be resectable
- CT for evaluation of lesion size, morphology, and location in relation to pleura, mediastinum, chest wall, and carina
  - Lymph nodes > 1 cm in mediastinum or > 1.2 cm in subcarinal region suspicious for metastases
  - Evaluation of pleura for effusion &/or thickening
  - Evaluation for distant metastases
- CT Modality of choice in initial evaluation of pulmonary nodule
- PET/CT
  - Modality of choice for initial clinical staging

# Unresectable Lung Cancer

- **T4**: Invasion of mediastinal structures, vertebral body, tumor nodule(s) in separate ipsilateral lung lobe
- **N3**: Metastases to scalene, supraclavicular, contralateral mediastinal, or contralateral nodes
- **M1**: Metastatic disease
  - M1a: Tumor nodule(s) in contralateral lung, malignant pleural effusion/nodule, malignant pericardial effusion
  - M1b: Distant metastasis
- **CECT**
  - Modality of choice for characterization and initial staging
- **PET/CT & MR**
  - Optimal for detecting specific metastases

# Lung CA Staging

- T1
  - <= 3 cm
- T2
  - > 3 cm
  - > 2 cm from carina
- T3
  - Any size
  - If in bronchus but < 2 cm of carina
  - Atelectasis of Entire lung
  - Invades Chest wall, Parietal Pleura, Mediastinal Pleura, Diaphragm, Pericardium
  - Chest wall Pain is best predictor of T3!
- T4 (nonresectable)
  - Any size
  - Invades Major mediastinal structures
    - eg anything you can't resect
    - Heart, Great Vessels, Trachea, Gus, Vertebra, Brachial Plexus
  - Malignant Effusion
  - Satellite Nodule in SAME LOBE
- N1
  - Ipsilateral HILAR
- N2
  - Ipsilateral MEDIASTINAL or
  - Subcarinal
- N3 (nonresectable)!
  - CONTRALATERAL Hilar or Mediastinal
- M1
  - Positive mets
  - Satellite nodule in different lobe

# Lung CA Staging

- Stage 1
  - T1-2 N0M0
- Stage 2
  - IIA T1N1M0
  - IIB T2N1M0, T3N0M0
- Stage 3
  - A
    - Sometimes resectable
    - T3,N1,M0
    - Any T,N2,M0
  - B (Key)
    - Unresectable
    - (Any T)N3M0, T4(any N)M0
- Stage 4
  - Mets

## ■ Unresectable

- T4
- N3
- M1

