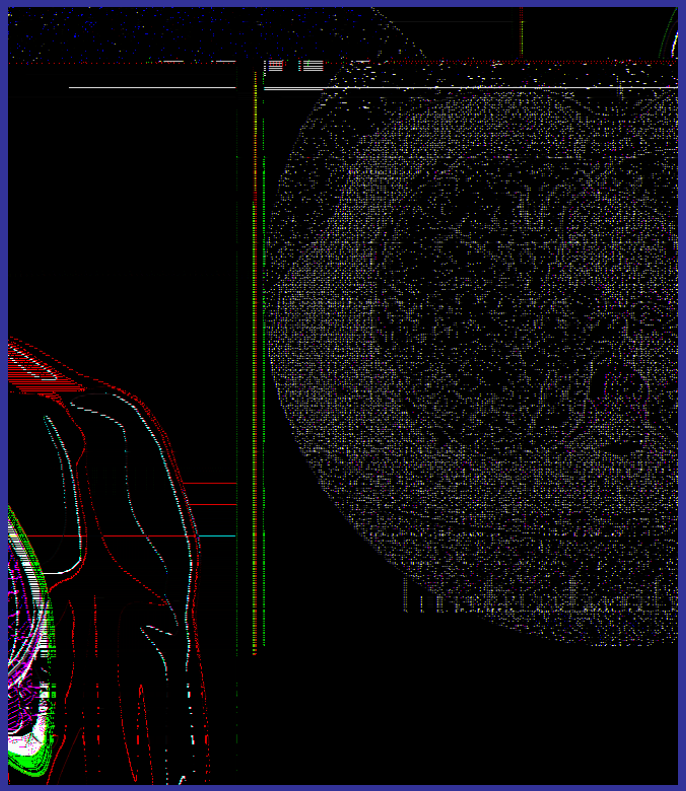
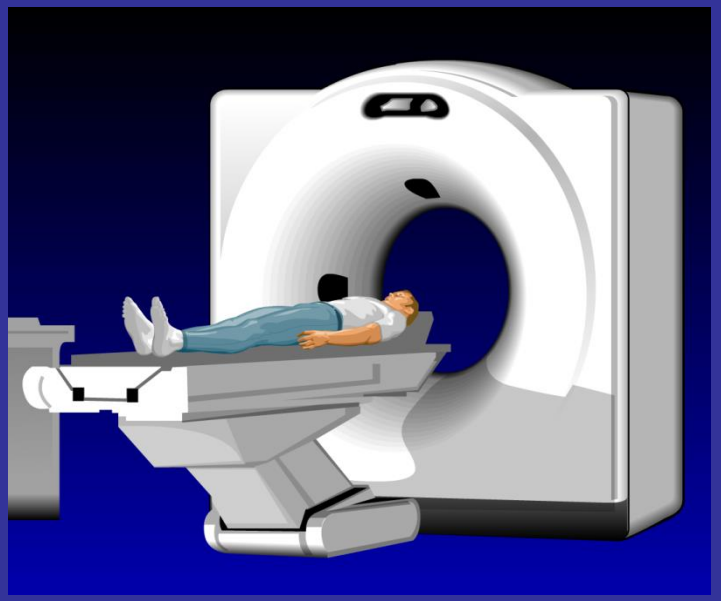
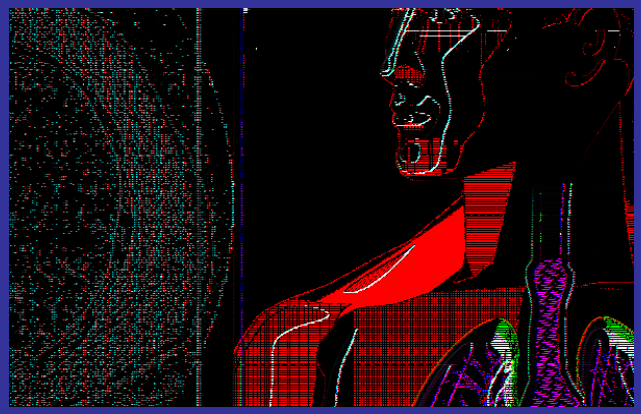
# Early Diagnosis of Mesothelioma and Lung Cancer in Prior Asbestos Workers using Low-Dose Computed Tomography

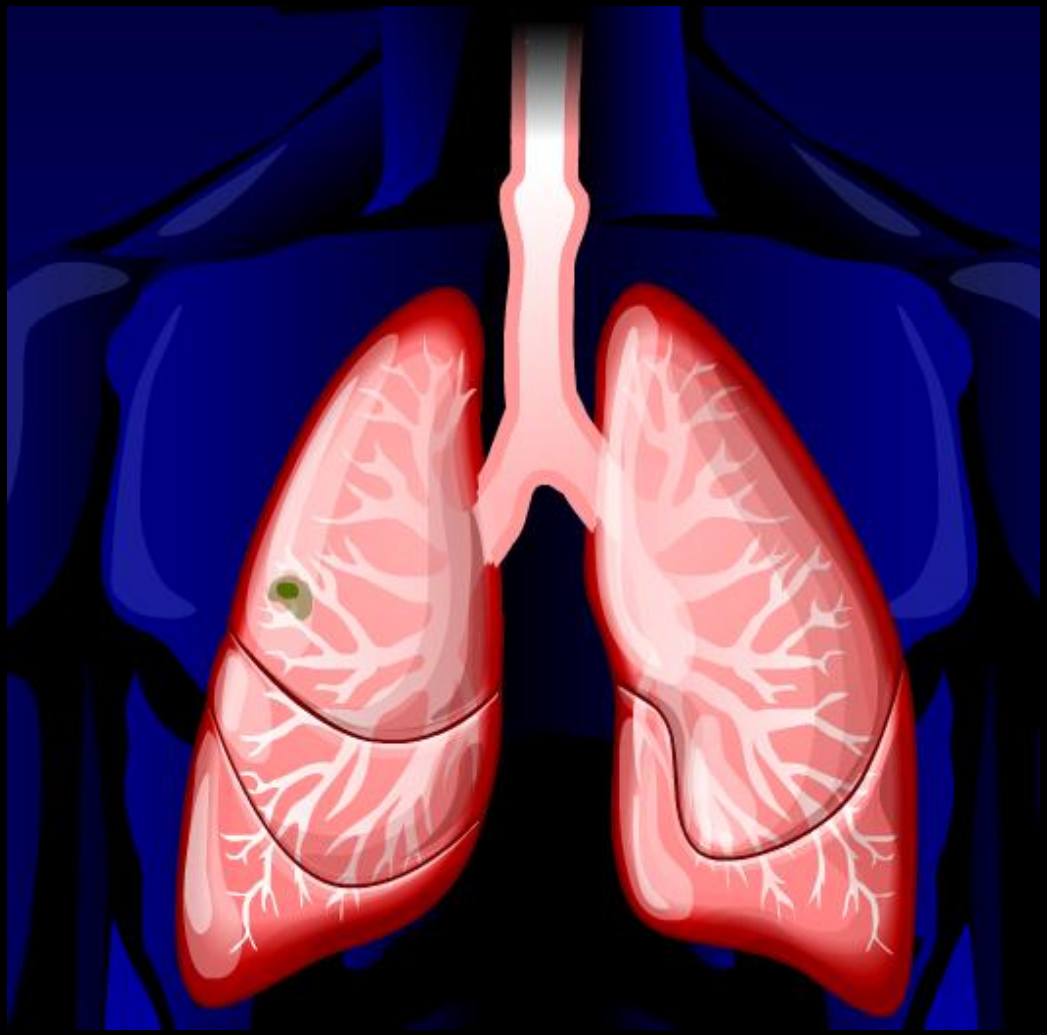


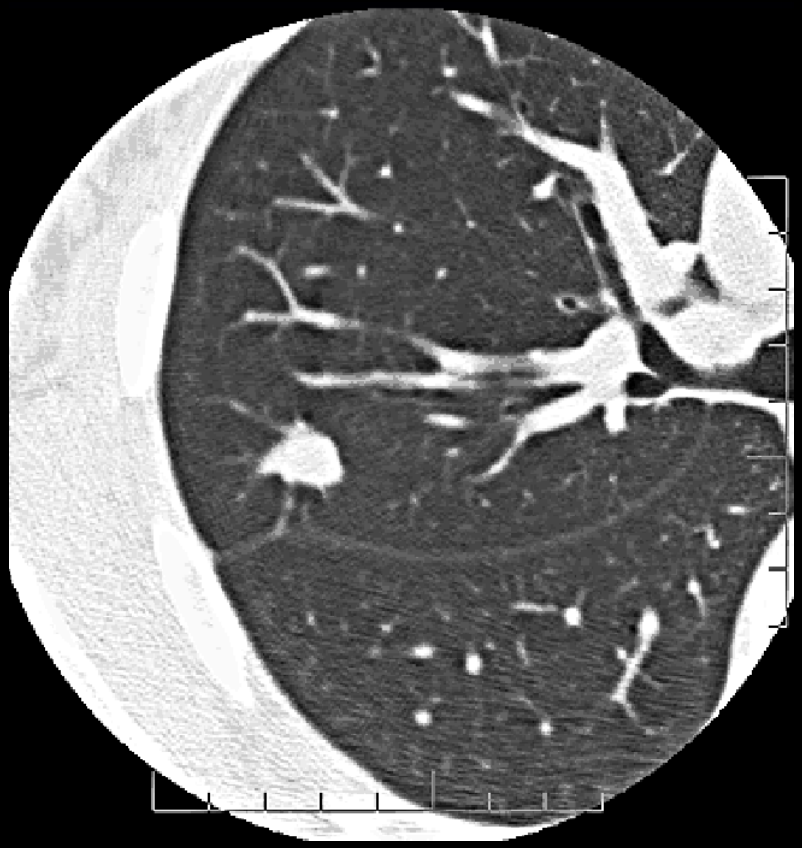




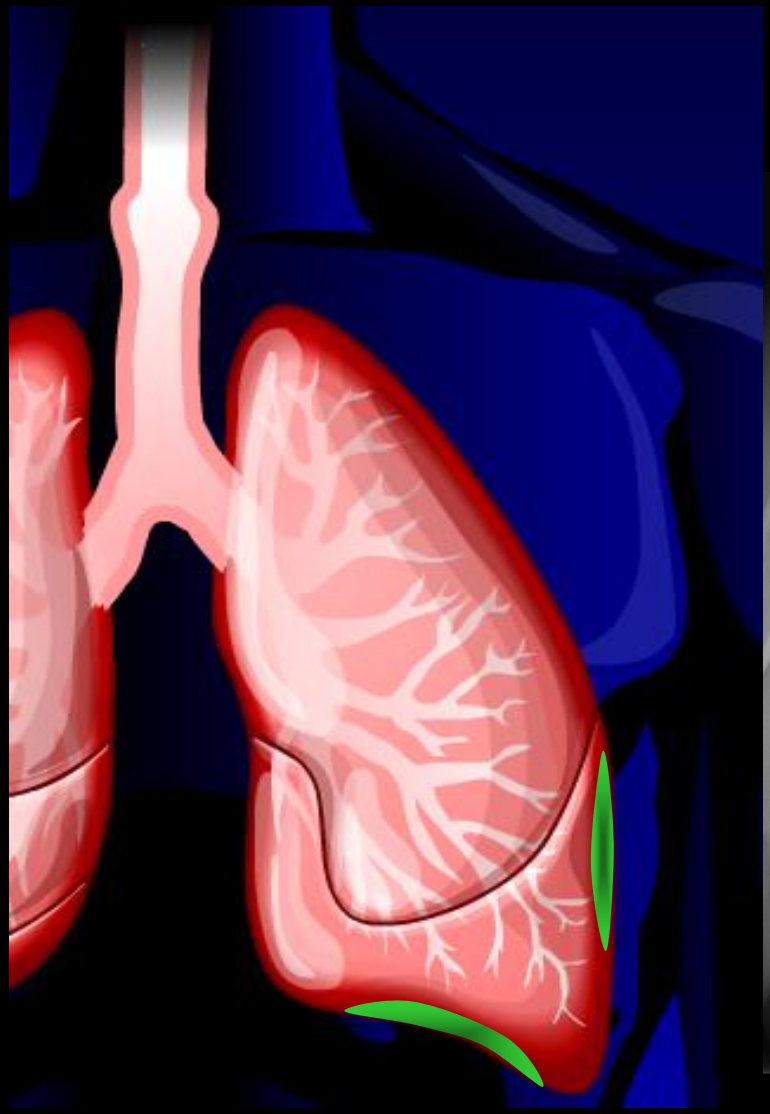
Cross-sectional
views through the chest

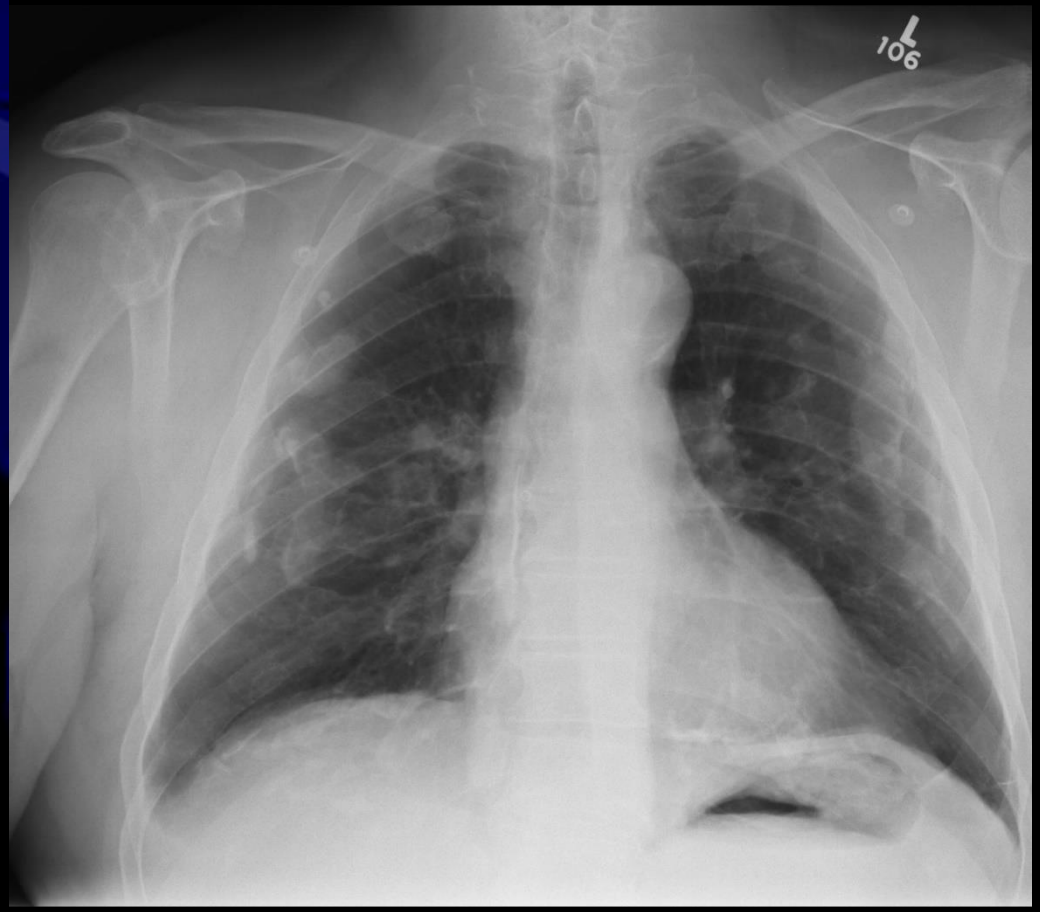
# nodule





# pleural plaques

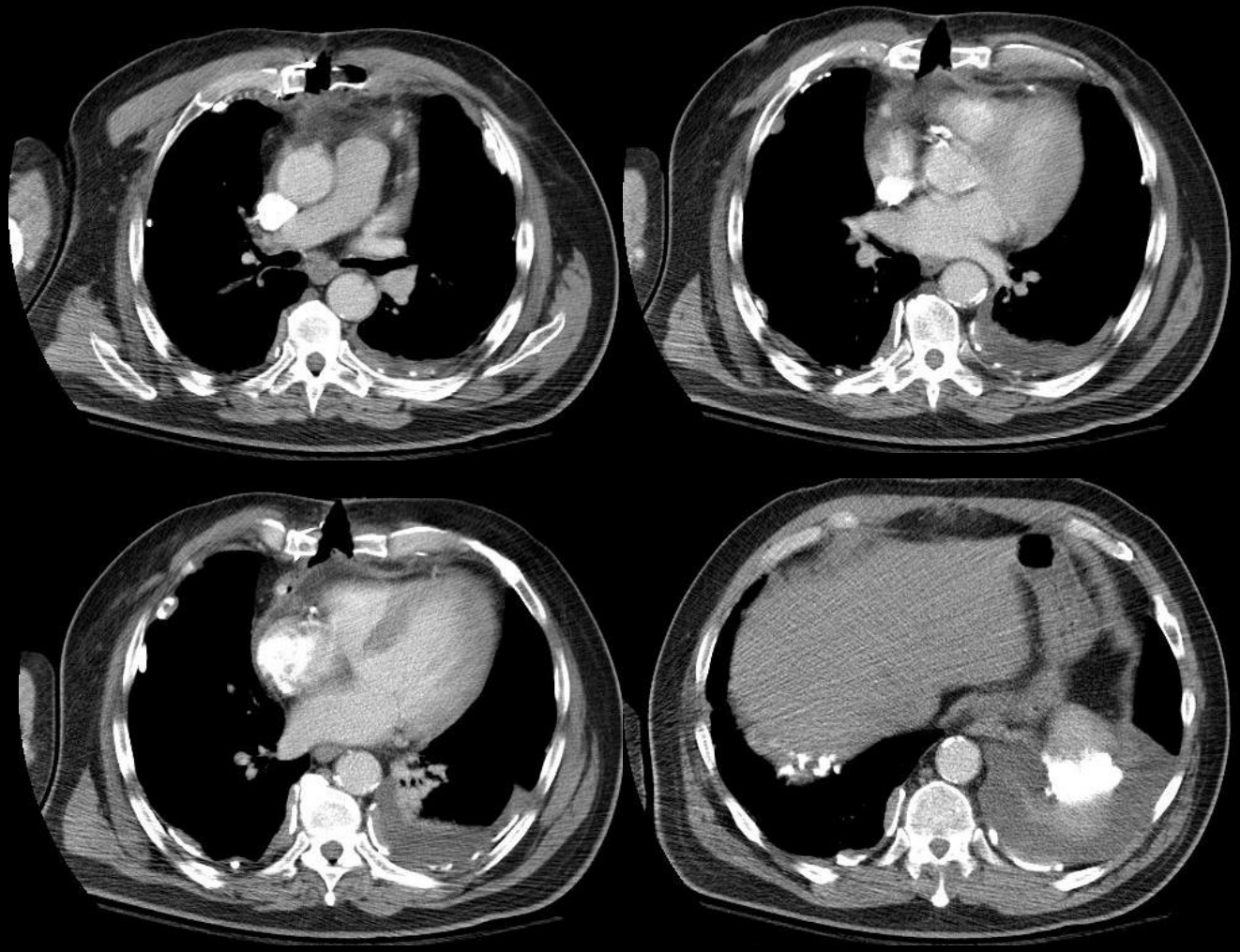


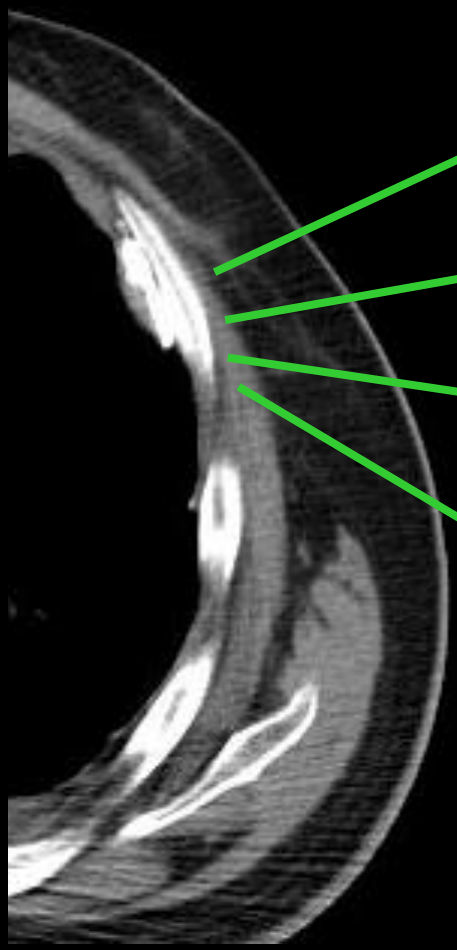



pleural plaques:

- reliable marker for asbestos exposure
- indicator of increased risk for malignant mesothelioma

# pleural plaques on CT





thickness

area / volume

shape
(flat or lobulated)

density
calcifications?

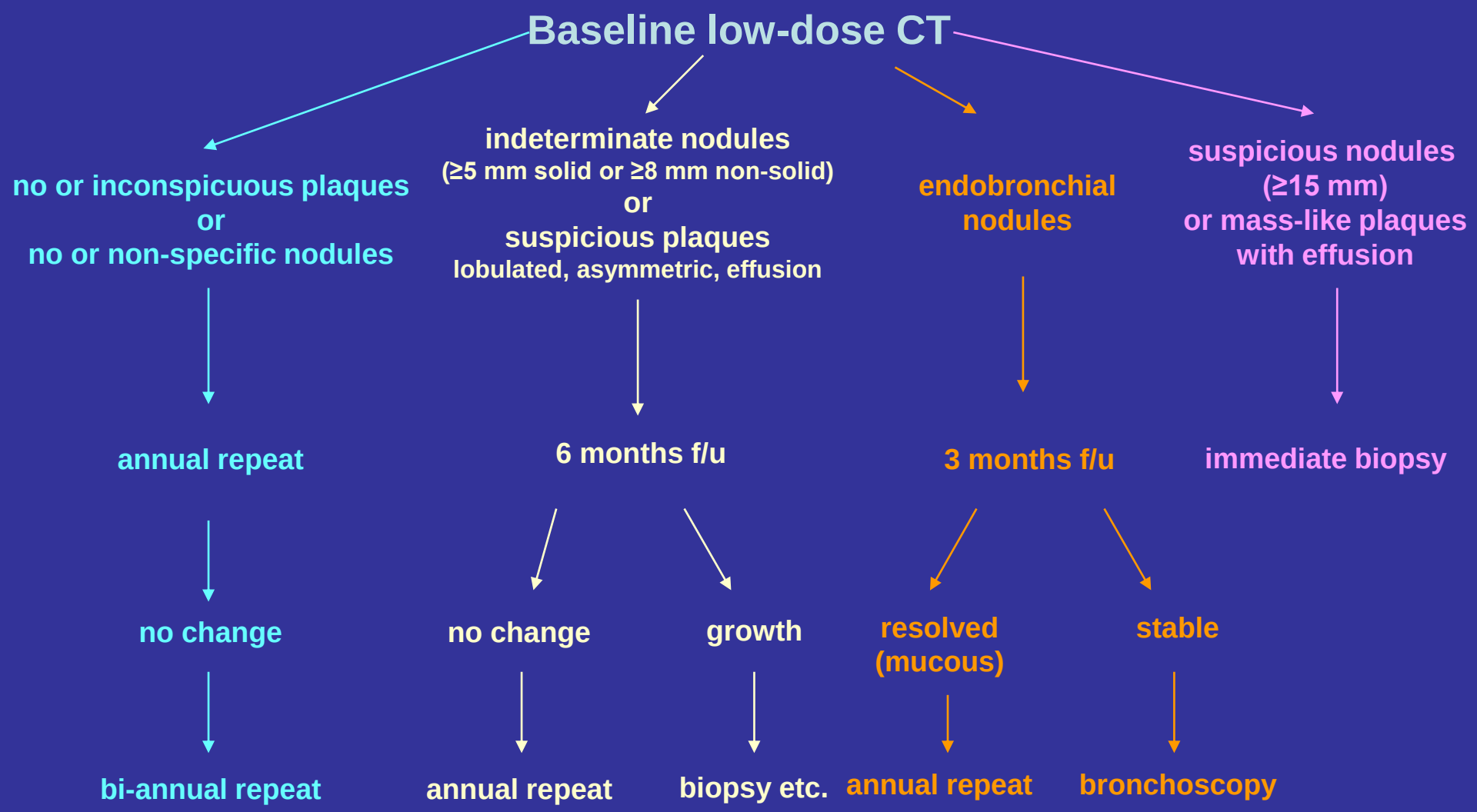
involved pleura
(costal, diaphragmatic,
mediastinal)

symmetry?

fluid?

# malignant mesothelioma

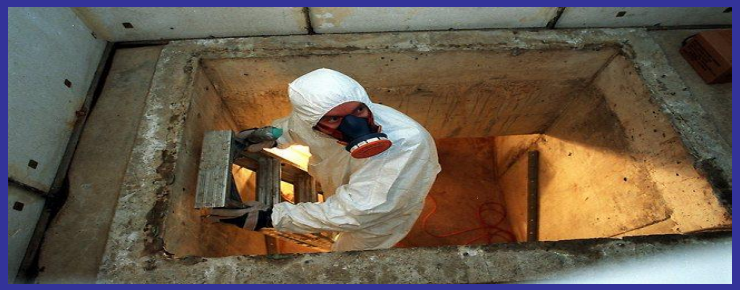
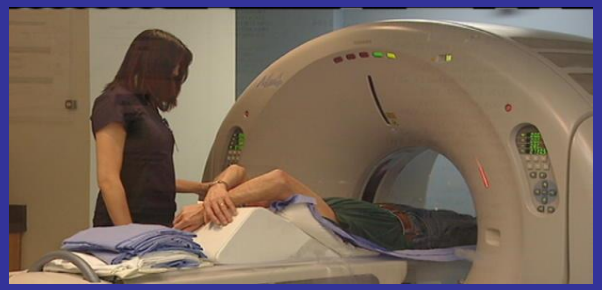
# Follow up flow chart



# How do I qualify for the study?

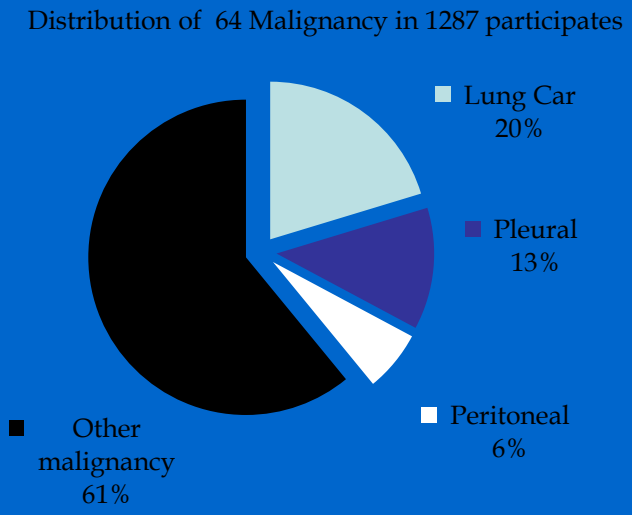
To qualify you must be:

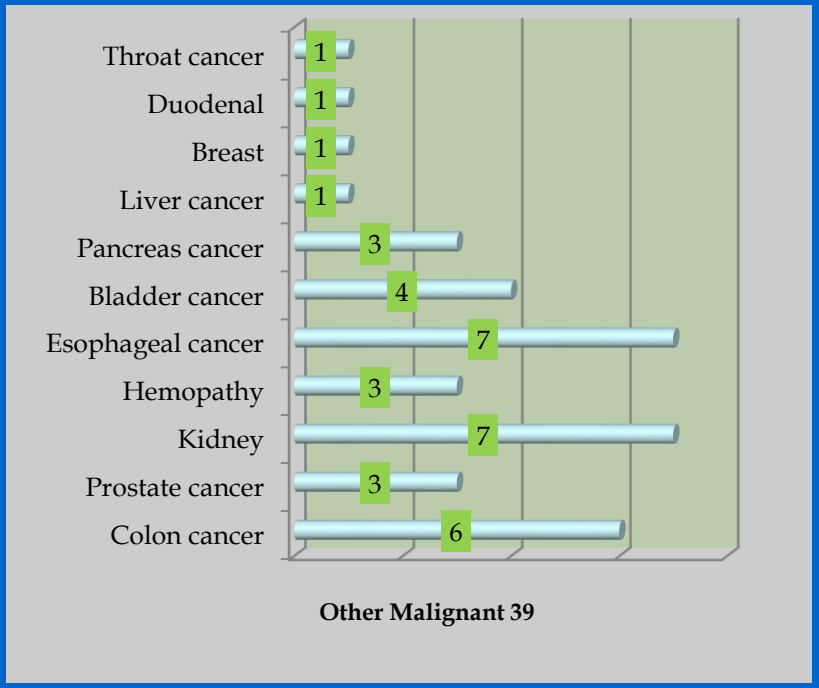
- 30 years of age or older
- asbestos exposure at least 20 years ago and/or documented pleural plaques
- be in general good health
- no prior cancers (except non-melanotic skin cancer)

# asbestos CT screening at PMH

- Study started March 2005
- 1287 enrolled
- 13 lung cancers found
- 8 pleural mesothelioma found
- 4 peritoneal mesothelioma found


Distribution of 64 Malignancy in 1287 participates
Lung Car 20%
Pleural 13%
Peritoneal 6%
Other malignancy 61%


Throat cancer 1
Duodenal 1
Breast 1
Liver cancer 1
Pancreas cancer 3
Bladder cancer 4
Esophageal cancer 7
Hemopathy 3
Kidney 7
Prostate cancer 3
Colon cancer 6
Other Malignant 39

# Thank you for your support

University Health Network

Toronto General Hospital Toronto Western Hospital Princess Margaret Hospital