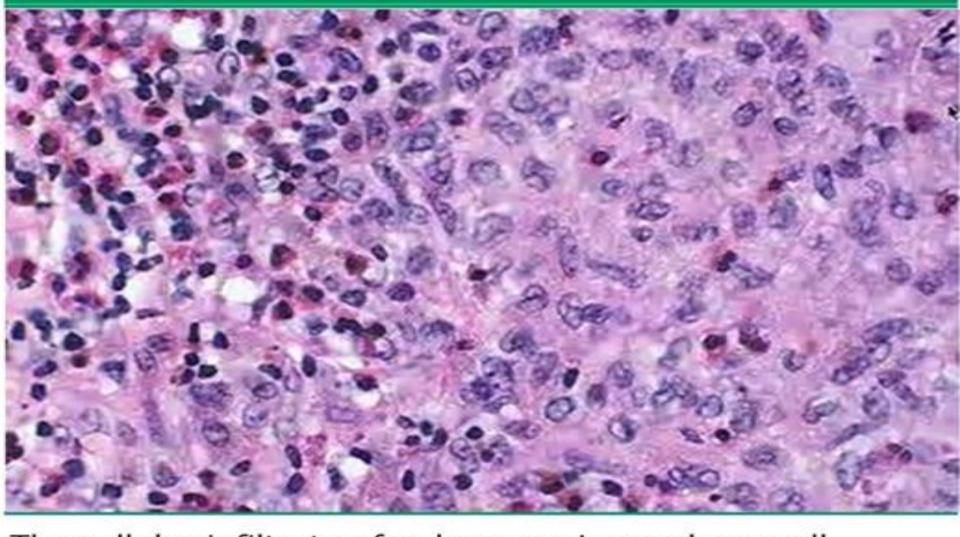
Langerhans-cell Histiocytosis كثرة المنسحات

Histiocytosis كَثْرَةُ المُنْسِجِات

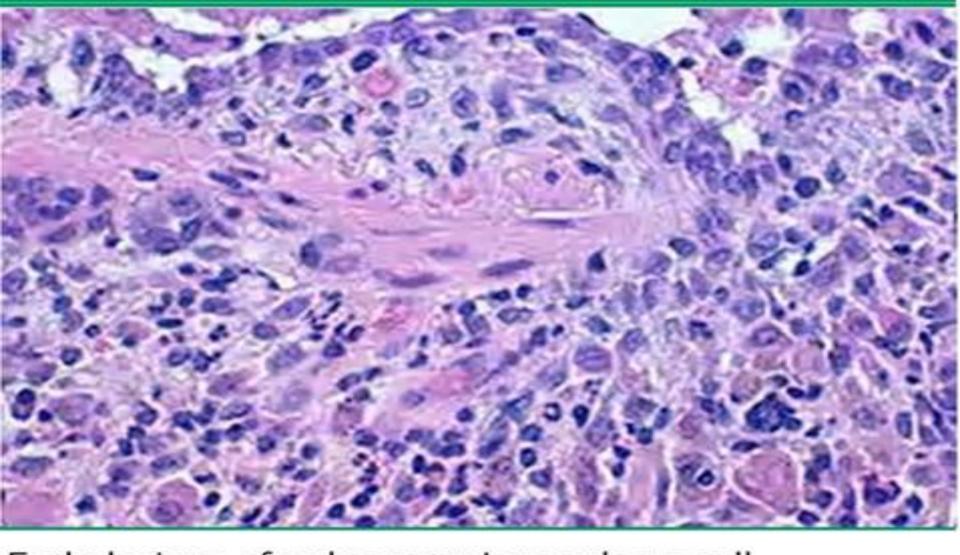
eosinophilic granuloma, histiocytosis X

clonal proliferation of dendritic cells

cells have X-bodies



The cellular infiltrate of pulmonary Langerhans cell histiocytosis is characterized by Langerhans cells, eosinophils, lymphocytes, neutrophils, and alveolar macrophages.



Early lesions of pulmonary Langerhans cell histiocytosis appear as cellular infiltrates along small airways.

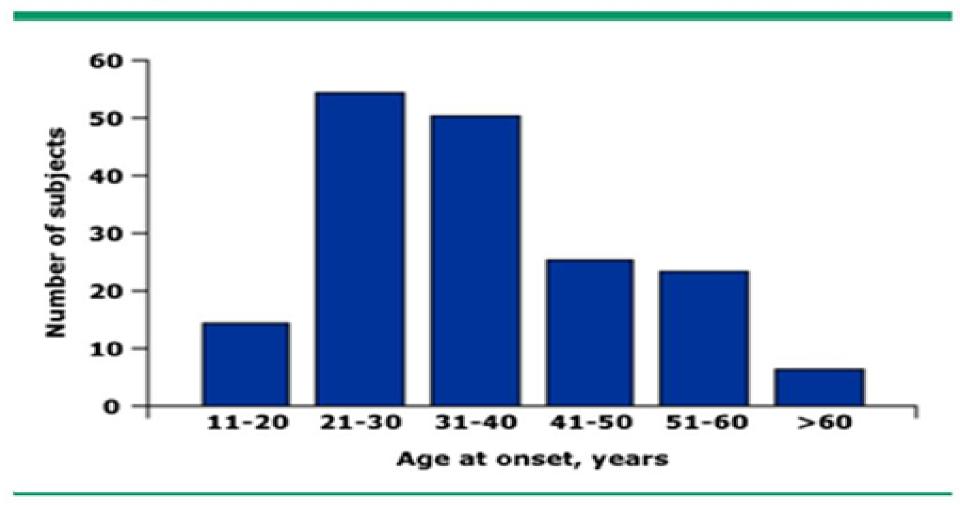
Clinical presentation

typically affects young-middle aged smokers

presentation: dyspnea, cough or both

spontaneous pneumothorax

Age at onset of pulmonary Langerhans cell histiocytosis



The data shown were obtained from published papers in which the age at onset of symptoms or diagnosis could be determined (total number of subjects = 168). The peak age at onset is between 20 and 40.

CXR

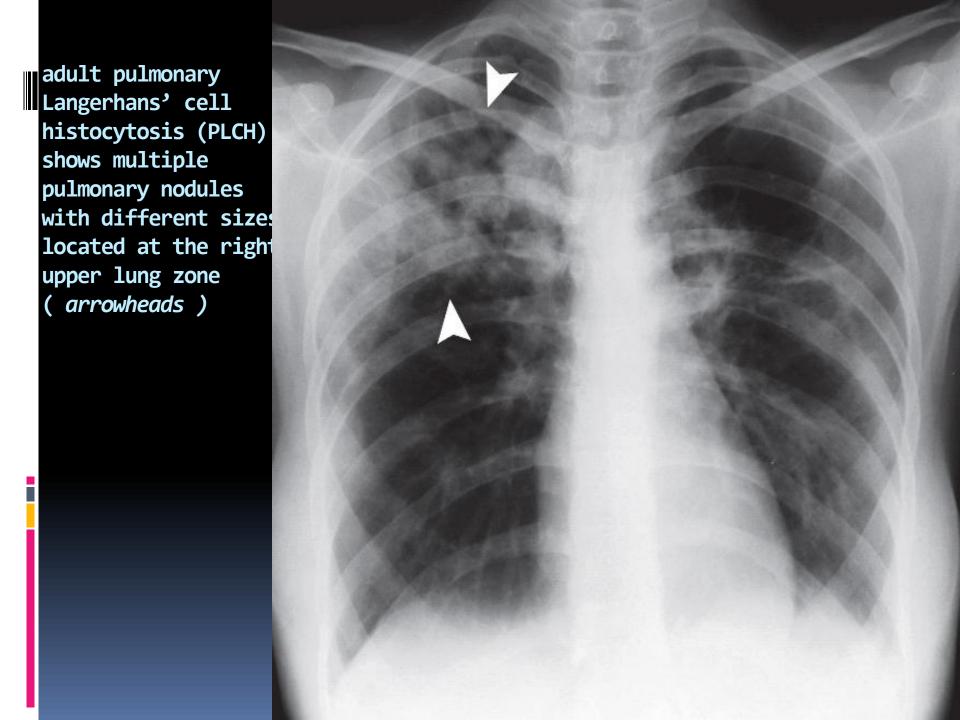
- primarily in upper lung zones :
 - cystic
 - nodular and/or reticulonodular chnges that progress to honeycombing



Chest radiograph demonstrates the classic features of profuse ill-defined nodules, reticulondoular opacities, cysts, and costophrenic angle sparing in pulmonary LCH. There is a mild reduction in lung volumes.



Chest radiograph reveals reticulonodular opacities in mid-lung zones, cysts, costophrenic angle sparing, and increased of lung volumes in a 58 year-old man with pulmonary LCH.

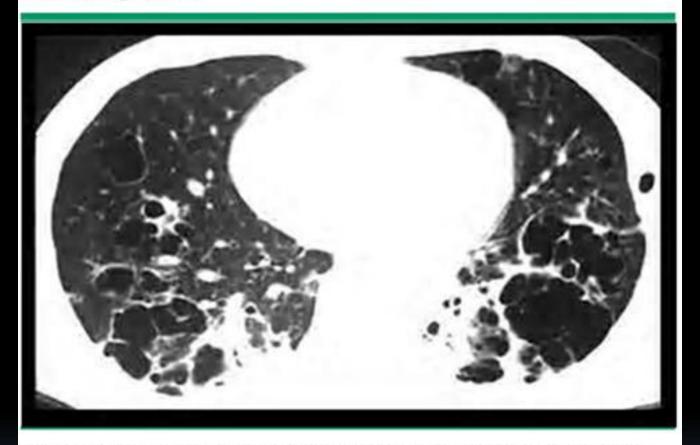


Cystic changes in Langerhans cell histiocytosis

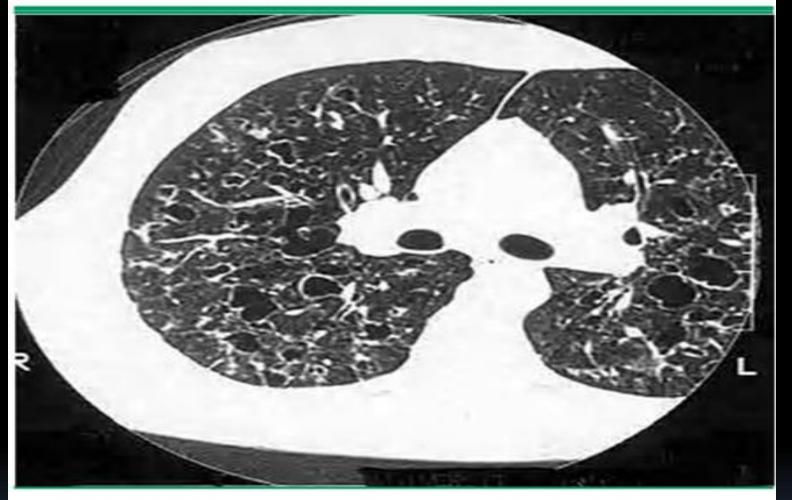


Langerhans cell histiocytosis (eosinophilic granuloma) in an adolescent boy characterized by multiple cysts in the upper and lower lobes. The cysts are interspersed throughout the parenchyma and have a slightly thick wall. A posterior right upper lobe nodule and confluent bibasilar patchy lower lobe opacities are also part of the disease process. *Courtesy of Paul Stark, MD.*

Cystic changes in Langerhans cell histiocytosis



Langerhans cell pulmonary histiocytosis (eosinophilic granuloma) in an adolescent boy characterized by multiple cysts in the upper and lower lobes. The cysts are interspersed throughout the parenchyma and have a slightly thick wall. A posterior right upper lobe nodule and confluent bibasilar patchy lower lobe opacities are also part of the disease process.



High resolution CT with thin section shows more clearly the cysts in pulmonary LCH, which vary markedly in size and may be larger than 10 mm. The cysts are bizarre in shape, many closely related to pulmonary arteries, often mimicking bronchiectasis. Few nodules are present in this case.

course

- may stabilize in some patients or may be progressive
- may progress to respiratory failure
- Smoking cessation may be followed by significant improvement
- Poor response to immunosuppressive treatment

no treatment