

# Interstitial Lung Disease (restrictive) Cheat Sheet by xkissmekatex (kissmekate) via cheatography.com/33594/cs/10470/

#### Interstitial Lung Disease (restrictive)

## Pathophysiology

- · Inflammatory process involving the alveolar wall (resulting in widespread fibroelastic • proliferation and collagen deposition).
- · Can lead to irreversible fibrosis, distortion of the lung architecture, and impaired gas exchange.
- · Prognosis is very variable and depends on diagnosis.

#### History

- · Ask about medication history (esp. chemotherapeutic agents, gold, amiodarone, penicillamine, and nitrofurantoin)
- · Previous jobs (exposure to asbestos, silicone, beryllium, and coal).

### Signs

· Rales at the bases are common, digital clubbing is common (esp. in idiopathic pulmonary fibrosis), signs of pulmonary HTN and cyanosis in advanced disease.

#### Symptoms

· Dyspnea (at first with exertion then at rest), cough (nonproductive), fatigue, symptoms secondary to another condition.

#### Interstitial Lung Disease (restrictive) (cont)

#### Diagnosis

- CXR, CT, PFTs, oxygen desaturation during exercise.
- Bronchoalveolar lavage for culture and cytology yields variable results.
- · Tissue biopsy is often required and can be done via fiberoptic bronchoscopy with transbronchial biopsy (limited utility), open lung biopsy, or video-assisted thoracoscopic lung biopsy (VATS).
- · UA can show signs of glomerular injury in Goodpasture's or Wegener's.

#### Causes ILD

Environmental · Coal worker's pneumoconiasis, silicosis, asbestosis, berylliosis.

## Granuloma Associated

· Sarcoidosis (along with other organ involvement), Wegener's granulomatosis, Churg-Strauss syndrome.

## Alveolar Filling Disease

- · Goodpasture's syndrome, Idiopathic pulmonary hemosiderosis, alveolar proteinosis.
- Hypers-· Hypersensitivity pneumonitis, eosinophilic pneumoensitivity nitis.

# Drug Induced

· Amiodarone, nitrofurantoin, bleomycin, phenytoin, illicit drugs.

#### Causes ILD (cont)

Miscellaneous Causes

· Idipathic pulmonary fibrosis, bronchiolitis obliertans organizing penumonia (BOOP), ILD associated with connective tissue disorders (RA, scleroderma, SLE, mixed connective tissue disease), ARDS, infection (fungal, TB, viral pneumonia), radiation pneumonitis.

Tests CXR

- · Typical diffuse changes are noted (reticular, reticulonodular, ground glass, honeycombing).
- · Honeycombing refers to a scarred shrunken lung and is an end-stage finding with poor prognosis. Air spaces are dilated and there are fibrous scars in the interstitial. Can arise from many causes of ILD.

## Pulmonary Function Tests

FEV1/FVC is increased >80%. Both FEV1 and FVC are low. Decreased DLCO.

· A restrictive pattern.

CT Scan

· Shows the extent of fibrosis better than other imaging. Fibrosis, honeycombing, or traction bronchiectasis.

Decreased TLC and RV.



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