Cheatography

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

Interstitial Lung Disease (restrictive)		
Pathophysi ology	 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)
Environme ntal	Coal worker's pneumoconiasis, silicosis, asbestosis, berylliosis,

ntal	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.
Hypersensi tivity	Hypersensitivity pneumonitis, eosinophilic pneumonitis.
Drug Induced	• Amiodarone, nitrofurantoin, bleomycin, phenytoin, illicit drugs.

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Causes ILD (cont)

Miscell	 Idipathic pulmonary fibrosis,
aneous	bronchiolitis obliertans
Causes	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	• A restrictive pattern. FEV1/FVC is increased >80% . Both FEV1 and FVC are low. Decreased DLCO. Decreased TLC and RV.
CT Scan	 Shows the extent of fibrosis better than other imaging. Fibrosis, honeycombing, or traction bronchiectasis.

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