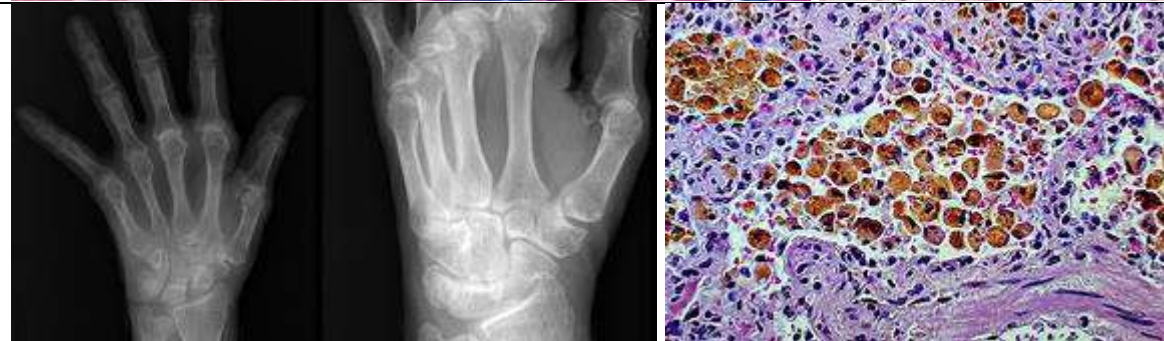
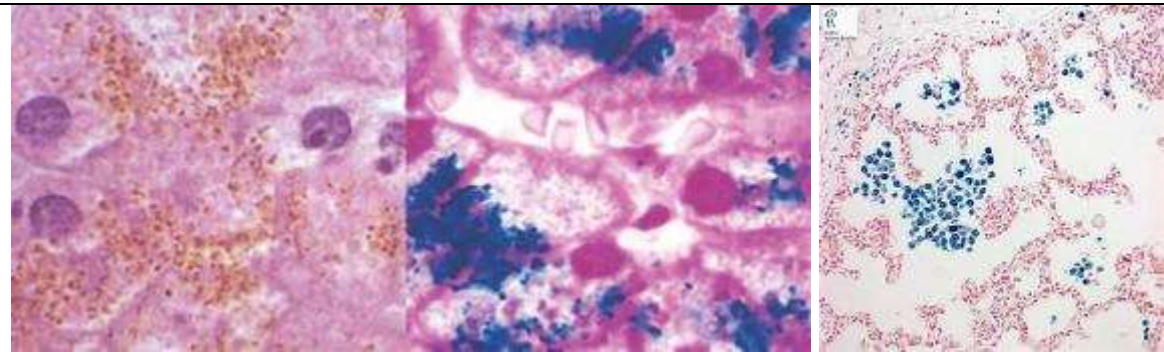


**XVI. Diseases Of The Respiratory System**  
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<b>Haemosiderosis (silico-siderosis)</b>		<b>II-6.94</b>		
<b>Lung:</b>	Is enlarged Diffusely-fibrotic: Rusty-red (iron-deposition)			
<b>Pleura</b>	Is thickened			

**N.B.I:**

- Fibrosis, here, is more **diffusing than nodular**.
- The lesion is more in the **upper half of the lung**.
- The **Prussian blue reaction** for iron is positive in the brown-brick-red fibrosed areas.



### HEREDITARY HEMOCHROMATOSIS

BOTH ARE INHERITED AUTOSOMAL RECESSIVE DISORDERS THAT CAN CAUSE CIRRHOSIS AND ORGAN TOXICITY DUE TO EXCESS METAL.

THE INTESTINE ABSORBS EXCESS IRON WHICH IS RECEIVED BY THE LIVER

BRONZE DIABETES

WE'RE SCREWED.

NO WE'RE BLOODY NOT!

TX: PHEBOTOMY

Fe

HFE GENE MUTATION

ARTHRITIS

### WILSON DISEASE

BOTH ARE INHERITED AUTOSOMAL RECESSIVE DISORDERS THAT CAN CAUSE CIRRHOSIS AND ORGAN TOXICITY DUE TO EXCESS METAL.

ATP7B GENE MUTATION

HEMOLYTIC ANEMIA

RENAL DISEASE

CNS DISEASE

KAYSER-FLEISCHER RINGS

LIVER CELLS' ABILITY TO EXCRETE COPPER INTO BILE IS IMPAIRED

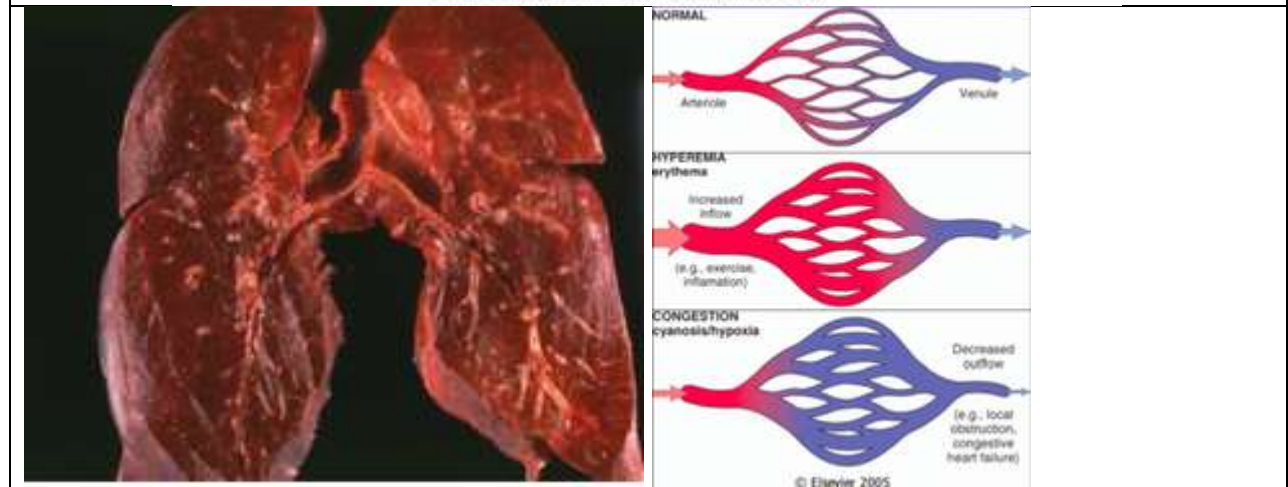
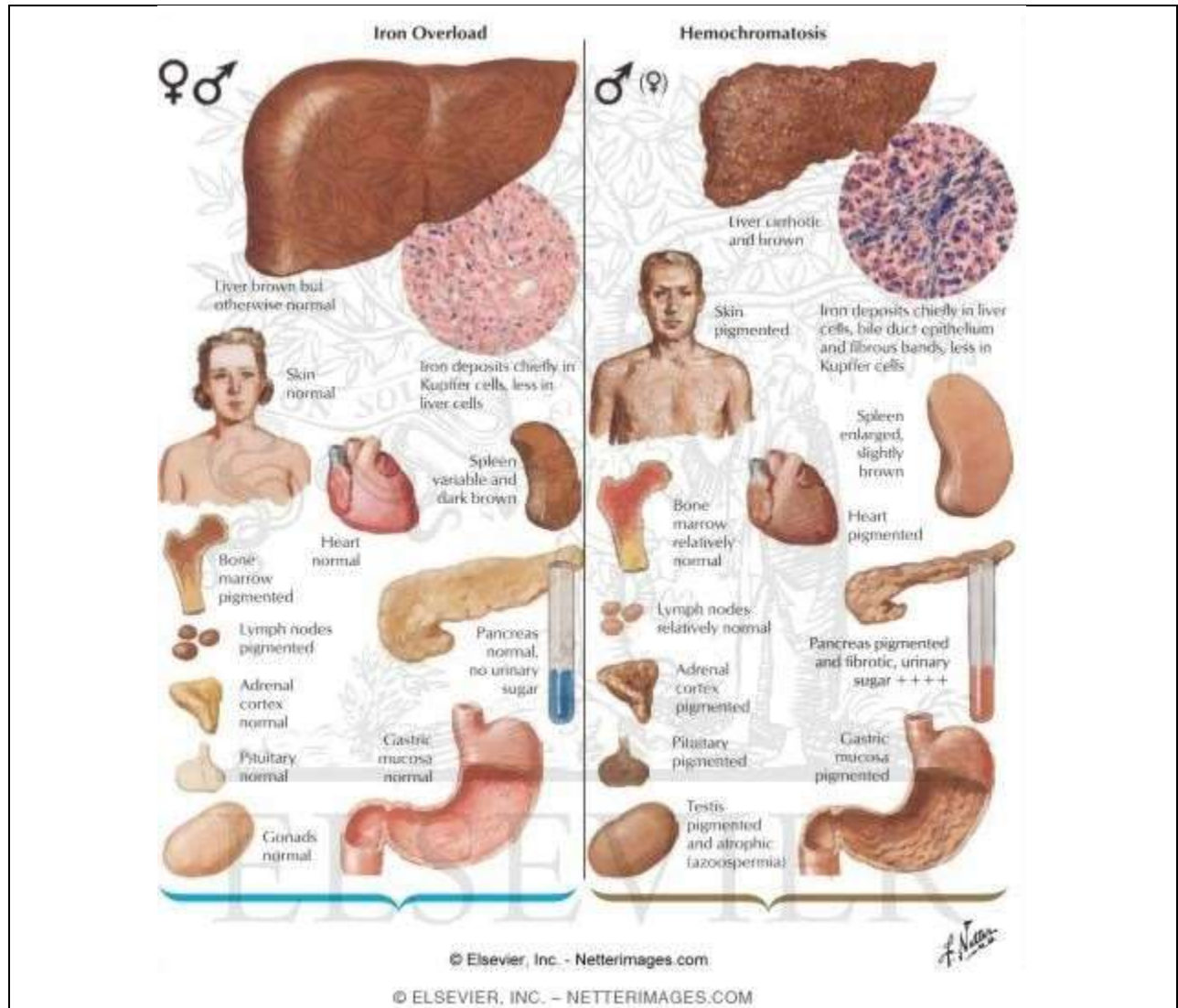
C'MON, PUSH!

TX: CHELATION

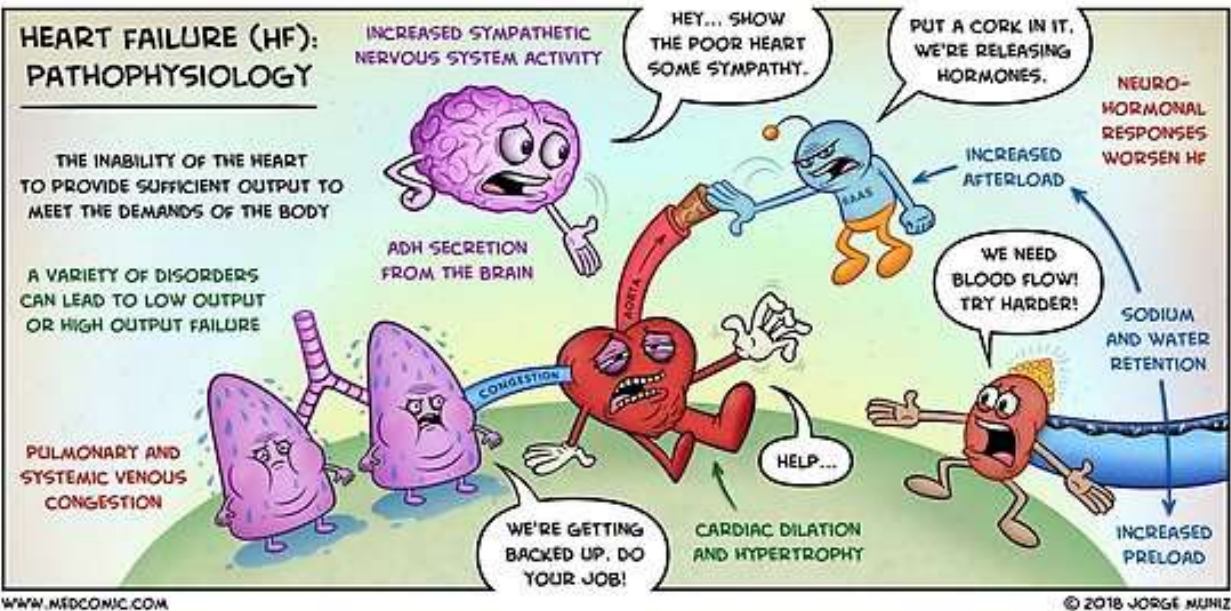
Cu

BILE DUCT

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## N.B. 2:

Other types of dust diseases

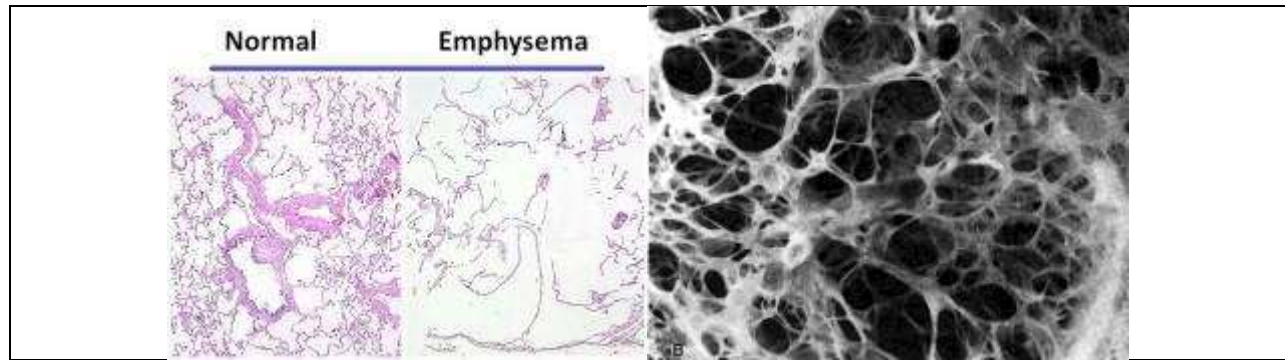
### 1) *Beryllium Pneumonitis:*

- In those working with fluorescent lamps → berylliosis.
- **Acute pneumonitis:**
  - A diffuse infiltration of lungs with oedema and haemorrhage;
  - (No polymorphs; only plasma cells).
- **Delayed poisoning:**
  - Chronic granulomatous lesions, the condition has to be differentiated from:
    - Miliary tuberculosis.
    - Sarcoidosis.

2) *Byssinosis:* It is inhalation of cotton fibres → little effect.

3) *Bauxite fibrosis (Shaver's disease):* Is caused by silica with aluminum.

4) *Baggastosis:* Is inhalation of cane-sugar fibres → little effect.



**Emphysema (chronic, obstructive = so-called hypertrophic)**

<b>Lung</b>	Voluminous (hence the old term "hypertrophic").		
	Is pale especially at:	Apex	Free borders
	Crackles and pits on pressure		
	Shows multiple bullae		
	<b>Cut surface:</b>	Is swollen in many parts Dry as a meshwork (spongy structure) Semi translucent	
		Shows:	<ul style="list-style-type: none"> <li>• Bullae</li> <li>• Anthracotic areas</li> </ul>
<b>Bullae and vesicles:</b>	<ul style="list-style-type: none"> <li>• Appear mainly at :</li> </ul>	<ul style="list-style-type: none"> <li>• Apex</li> <li>• Free borders</li> <li>• Anterior margin</li> </ul>	
	<ul style="list-style-type: none"> <li>• Spaces (empty except for air)</li> <li>• Are multiple (numerous)</li> <li>• Variable in size and in shape</li> <li>• Thin-walled</li> <li>• Feathery</li> <li>• Bloodless</li> <li>• Paler than the remaining lung tissue</li> </ul>		

**N.B. 1**

Emphysema may be classified into:

**1. Acute:**

Vesicular (compensatory in origin).

Interstitial (traumatic in origin).

**2. Chronic:**

A) Generalized obstructive (so-called hypertrophic), due to loss of (or deficiency in) the elastic tissue of the lung and increase in the residual air content and the air trapped in the lung will inflate it.

B) Localized (compensatory).

**3. Senile:**

Is also termed atrophic.

