Carditis

Dr. Fares

- Carditis: inflammation of the heart
 - Pericarditis: inflammation of the pericardium
 - Myocarditis: inflammation of the myocardium
 - Endocarditis: inflammation of the endocardium

Causes of pericarditis

- Acute, nonspecific (idiopathic)
- Infective: a) bacterial, b) viral, c) other infections
- Immunologic: a) Rheumatic fever, b) other
- Traumatic: a) uremic, b) myxedema, c)neoplastic
- Neoplastic
- Myocardial infarction
- Connective tissue disorder

Infectious Pericarditis

- Acute , chronic
- Etiology:
 - Most common viruses: enteroviruses
 - Most common bacteria: staphylococcus, strep, and Neisseria

Pathogenesis

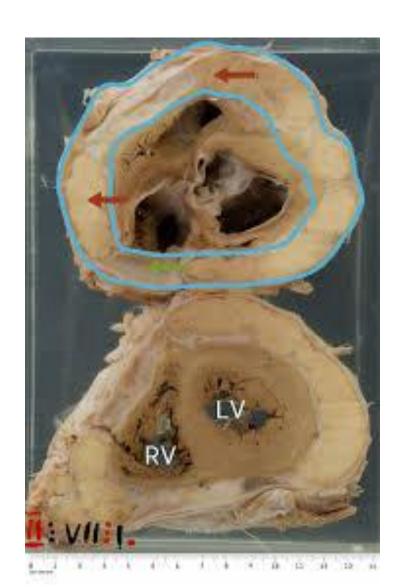
- Micro organisms reach the pericardium by:
 - Blood
 - Direct extension from lung (pneumococci)
 - Direct inoculation during surgery or trauma

Pathology

- Acute serous or serofibrous pericarditis (usually viral) mild inflammatory reaction associated with focal damage to the adjacent myocardium
 - The response varies: small amount of serous fluid with mononuclear cells and fibrinogen to large neutrophil rich, bloody effusions
 - Mild fibrosis and adhesion between visceral and parietal surfaces
 - Constrictive pericarditis (rare)
 - Usually self limiting and rarely fatal
- Acute purulent pericarditis (usually bacterial)
 - The purulent material contains large number of neutrophil in a large volume of effusion
 - Healing is associated with extensive fibrosis that may progress to chronic constrictive pericarditis
 - The mortality rate is 50%

Pathology

- M. tuberculosis
- 5% of cases with pulmonary TB will have pericardial involvement
- Early granulomatous stage: large pericardial effusions (>300ml), serosanguinous, mononuclear cells
- As the disease evolves the inflammatory process become chronic—fusion of parietal and visceral pericardium—consecutive pericarditis and circulatory failure

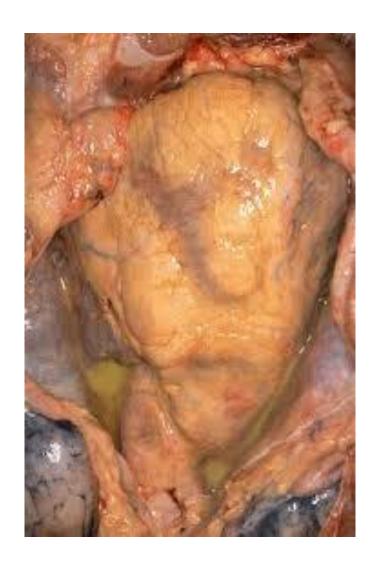


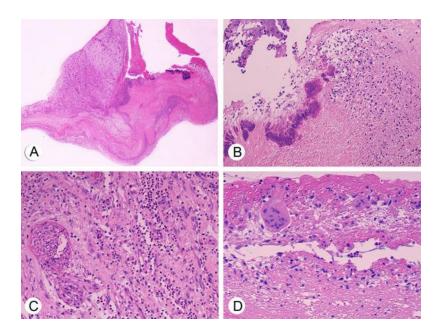


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- Acute serofibrous pericarditis
 - Chest pain
 - Rapid in onset, persistent : hours to days
 - Worse during inspiration and recumbency but improves with leaning forward
 - In the upper abdomen over the stomach and maybe sharp, dull constriction and/or crushing making clinical differentiation from mi difficult
 - Fever not prominent
 - Malaise
 - **—** ...

- Acute purulent pericarditis
 - -little, chest pain
 - -Fever/chills from underlying infection
 - -cardiac tamponade:
 - 1. dyspnea
 - 2. agitation
 - 3.orthopnea
 - 4.cough
 - -Pericardial friction rub- less than 50% of patients
 - -Pericardial friction rub triphasic sound that resembles scratches or...









Treatment

- Bed rest
- Pain control with NSAIDs
- Abx based on the infecting agent and its sensitivity pattern
- +/- surgery

