

LECTURE 1

	Myocarditis	pericarditis.
Epidemiology/ Causes	<p>no accurate, infectious & non infectious causes. (Toxins, drugs , hypersensitivity immune response)</p> <p>Types of Effusive Fluid :</p> <ul style="list-style-type: none"> -Serous :heart failure -Suppurative: Pyogenic infection -Hemorrhagic: especially malignancies -Serosanguinous 	<p>Idiopathic / Radiotherapy / Cardiac surgery / C.T disorders /Dialysis /Bacterial infection</p>
pathogenesis	<p>-</p> <p>Tuberculous Pericarditis :</p> <ul style="list-style-type: none"> -Incidence of pericarditis in patients with pulmonary TB -Clinical findings: fever, pericardial friction rub, hepatomegaly -Tuberculin skin test (+) -Fluid smear for AFB (-) -Pericardial biopsy more definitive 	<p>Inflammation → fibrinous exudate → pericardium become dull, opaque, sandy → scarring + adhesions +fibrosis</p>
types	<p>-</p>	<p>-Caseous Pericarditis: tuberculous -Serous Pericarditis: autoimmune diseases -Fibrous Pericarditis: chronic - suppurative</p>
etiological agents	<p>most common</p> <p>Coxsackie virus B</p>	<p>Coxsackie virus A and B, Echovirus</p>
	<p>Less common</p> <p>Adenoviruses ,Influenza, Mumps,, Hepatitis V, HIV</p>	<p>Adenoviruses ,Influenza, Mumps,, Hepatitis V, HIV</p>
	<p>other</p> <p>Corynebacterium diphtheriae, Syphilis, M. tuberculosis Fungi: Chlamydia *</p> <p>Giant cell myocarditis: SLE, Thyrotoxicosis.</p> <p>Parasite: Taxoplasma</p>	<p>-S. pneumonia, M. tuberculosis, (complication of pneumonia) -Fungi: Histoplasma, Coccidioides. -Parasite: toxoplasmosis,</p>
clinical presentation	<p>Chest pain, arrhythmias ,sweating , fatigue and may congestive heart failure.</p>	<p>-Acute pericarditis: Sudden pleuritic chest pain (positional retrosternal) / Dyspnea / exaggerated pulses / paradoxus JVP / ↑pericardial pressure →syncope -Chronic pericarditis: Tuberculous pericarditis</p>

1-Contiguous spread
2-Hematogenous spread
3-Lymphangetic spread
4-Traumatic or irradiation

	Myocarditis	pericarditis.
diagnosis	microbiological Blood cultures - Viral serology	-ECG : ST elevation, PR depression ,T-wave inversion -Blood culture, urea, creatinine test
	non microbiological ECG – Radiology Pathologic examination: lymphocytic inflammatory, Giant cells	-Chest x-ray : enlarged cardiac shadow or calcified pericardium - CT scan: pericardial thickening -Immunology /Serology
management	-supportive→restricted physical activity in heart failure. -drugs → anticoagulant, NSAID, steroid or immunosupresses -antimicrobial therapy → agent is identified. -viral myocarditis →self limited. -Heart transplant	-supportive →idiopathic + viral pericarditis -Corticosteroid + anticoagulants →contraindicated -antibiotics →S. aureus - Acyclovir →Herpes simplex or Varicella - Ganciclovir → CMV -Pericardiocentesis
complication	conduction defects - heart failure - Sudden death	-
prognosis	Patient should be followed regularly every 1-3 months	Patients who recovered should be observed for recurrence

Qs:

1-A 48 year old female present with fever, headache, chest pain and sweating In the investigation, Chest X-ray shows cardiomegaly and ECG shows nonspecific ST-T changes. What is the most common agent in her condition?

- A-Corynebacterium diphtheriae
- B-Adenoviruses
- C-Coxsackie virus B
- D-Coxsackie virus A

2-A 54 year old male has fever, headache, chest pain and sweating In the investigation, Chest X-ray shows cardiomegaly and ECG shows nonspecific ST-T changes. What is the most appropriate diagnosis?

- A- Pericarditis
- B- Myocarditis
- C-endocarditis
- D- Vasculitis

3-when does The normal transparent and glistening pericardium turned into a dull, opaque, and “sandy” sac ?

- A-In pericarditis
- B-In heart failure
- C-In myocarditis
- D-In TB

4-A 60-year male presented with pleuritic chest pain, Dyspnea and Fever. On examination there was a paradoxus JVP and tachycardia. What is the most appropriate diagnosis?

- A- Endocarditis
- B- Chronic pericarditis
- C- Myocarditis
- D- Acute pericarditis

Ans:
1-C
2-B
3-A
4-D