

RHEUMATIC FEVER

Def: multi system inflammatory disease occurs following pharyngeal infection with group A β-hemolytic streptococci "Streptococcus pyogenes"

usually affect children 5-10 y

mech: Cross reactivity - Antigenic Mimicry

Jones Criteria

Major

- migratory polyarthritis
- Carditis
- Subcutaneous nodules
- Erythema marginatum
- Sydenham chorea

Minor

- arthralgia
- fever
- ↑ ESR, CRP
- TLC
- ↑ WBC
- long PR interval

Diagnosis 2 major, 1 major + 2 minor evidence of streptococcal Infection :-

- ★ ASO titers > 250 u
- ★ Blood agar → β hemolysis
- ★ Kits : use enzymatic or chemical methods to extract the antigen from swab then use EIA or agglutination test
- ECG → Cardiac complications

ttt: ★ long acting penicillin

Symptomatic ttt : digitalis → Heart failure
Steroids + Salicylates → ↓ Pain, inflammation
Haloperidol → Sydenham chorea

Prophylaxis "Prevention"

detection and early antimicrobial therapy of throat infection before day 8 can effectively prevent ARF, this require maintenance of benzathine Penicillin G IM for 10 days

→ Erythromycin : alternative drug



فَلَسْطِينٌ

BACTERIAL ENDOCARDITIS

DEF: inflammation of the inner lining of heart valves, called heart valves, a

Causative Organisms :

- staph. aureus
- strept. viridans
- fungus
- enterococcus
- Pseudomonas aeruginosa

Types

1) Acute bacterial endocarditis ABE

- Staph aureus - gram +ve cocci clusters
- affect normal heart valves
- IV drug users at risk
- mortality rate 50% "Serious"

2) Sub acute bacterial endocarditis SBE

- Strept viridans - +ve cocci chains
- affect abnormal valves or damaged or prosthetic valves
- reach blood by a - tooth extraction - tonsil

Clinical Presentation :-

- fever - chills - weight loss
- Systemic emboli - Janeway lesion - Osler nodes - splinter hemorrhage - Roth spots - Arteritic chest pain

Diagnosis

Blood culture technique

alpha hemolysis → Zone of green discolor-

strept viridans

Beta hemolysis → clear zone → α

2) Fever - mucular lesion → ECG - vascular lesion

ttt:

IV antibiotic

ABE : gentamicin - nafcillin

SBE : gentamicin - ampicillin → native value

gentamicin - vancomycin - rifampin → prosthetic values