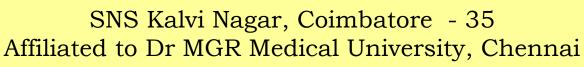


SNS COLLEGE OF ALLIED HEALTH SCIENCES





DEPARTMENT OF PHYSICIAN ASSISTANT

COURSE NAME: SURGERY

II YEAR

UNIT III:

TOPIC II: Rheumatic heart disease



Definition



Rheumatic heart disease is a condition in which the heart valves have been permanently damaged by rheumatic fever. Rheumatic fever is an inflammatory disease that can affect many connective tissues, especially in the heart.



Causes



 rheumatic fever, an inflammatory disease that can affect many connective tissues, especially in the heart, joints, skin, or brain. The heart valves can be inflamed





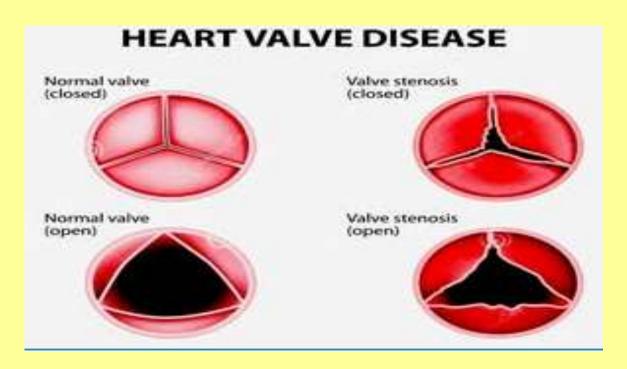
DEFINITION

- Rheumatic heart disease is a chronic condition resulting from rheumatic fever which involves all the layers of the heart (i.e. pancarditis) and is characterized by scarring and deformity of the heart valves.
- The commonest valves affecting are the mitral and aortic, in that order. However all four valves can be affected.



Valve disease

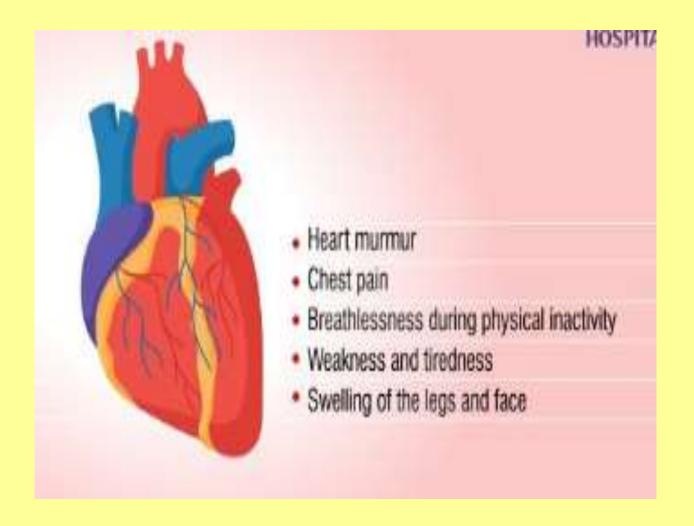






Symptoms







signs







Pathophysiology



PATHOPHYSIOLOGY:

Streptococcal infection

Cross immune response between host and streptocod antigens(antigenic mimicry)

Abnormal reaction- auto immunity disease

Rheumatic pancarditis and endocarditis in valves

Erosion of valve leaflets

Fibrous thickening and thickened valves

Stenosis and regurgitation



Diagnosis



- Physical examination look for a heart murmur
- Chest X-ray an enlargement of the heart or the fluid on the lungs
- Medical history ARF (acute rheumatic fever) or a strep infection.
- Blood tests. Blood tests can be done to check for signs (ma rkers) of inflammation in the blood. These tests include Creactive protein
- Electrocardiogram (ECG or EKG). This test records the electrical activity of the heart. It can help diagnose irregular heartbeats, active protein and the erythrocyte sedimentation rate.
- echocardiogram shows the blood flows through the heart and



Medical Management



- The goals of treatment for rheumatic fever are to treat the infection, relieve symptoms, control inflammation and prevent the condition from returning.
- Antibiotics. Penicillin or another antibiotic is typically prescribed to treat the strep bacteria.
- Anti-inflammatory drugs. Aspirin or naproxen (Naprosyn, Naprelan, Anaprox DS) can help reduce inflammation, fever and pain.





 Antiseizure drugs. Medications such as valproic acid or carbamazepine (Carbatrol, Tegretol, others) may be used to treat severe involuntary movements caused by Sydenham chorea.



Surgical management

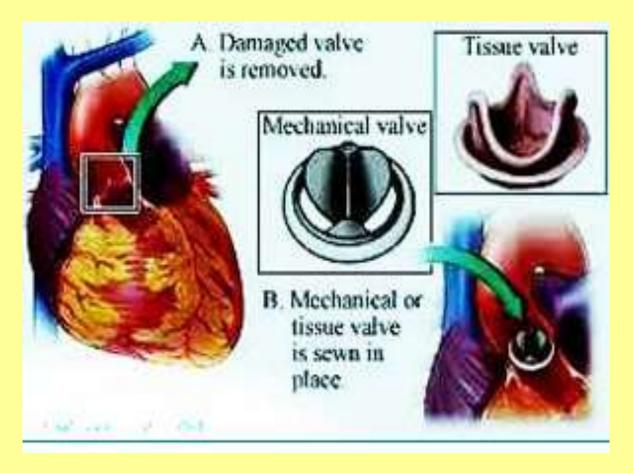


- Valve Repair: It means that the valve is mended to help to work better. During repair, a ring may be sewn around the opening of the valve to support it.
- Valve Replacement: Valve replacement or valvuloplasty is a non-surgical technique that uses a cardiac catherization. During replacement, the diseased valve is removed and a new valve is inserted in its place. The replacement is done either with the help of a mechanical or a biological valve.



Valve replacement







Valve repair



