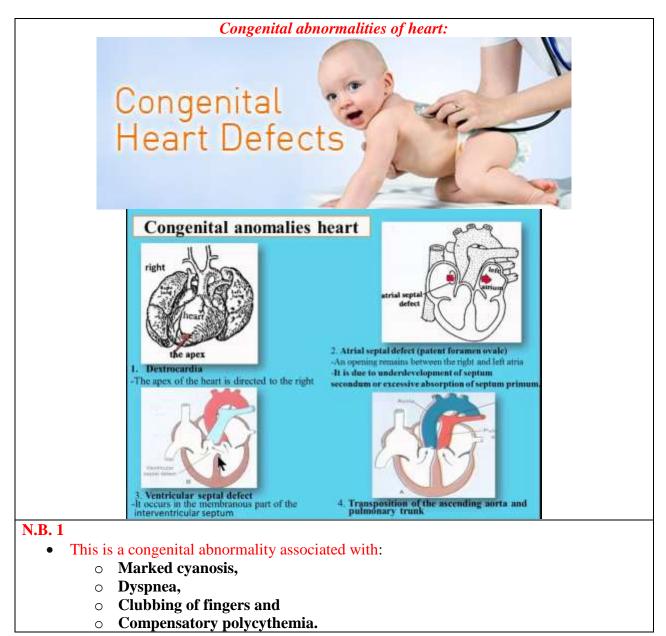
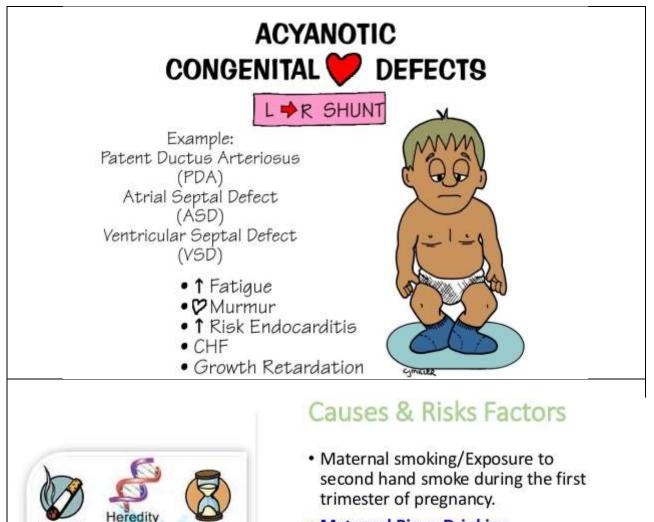
128 XV. Diseases of the Cardiovascular System





- Maternal Binge Drinking.
- Gestational Diabetes Mellitus.
- Obesity in Mother.
- Folate Deficiency.
- Having a parent with CHD.

Lifestyle Congenital abnormalities of heart:

nactive

Most of these defects or anomalies are dependent upon variations in the formation of the • septum which divides the heart into left and right sides.

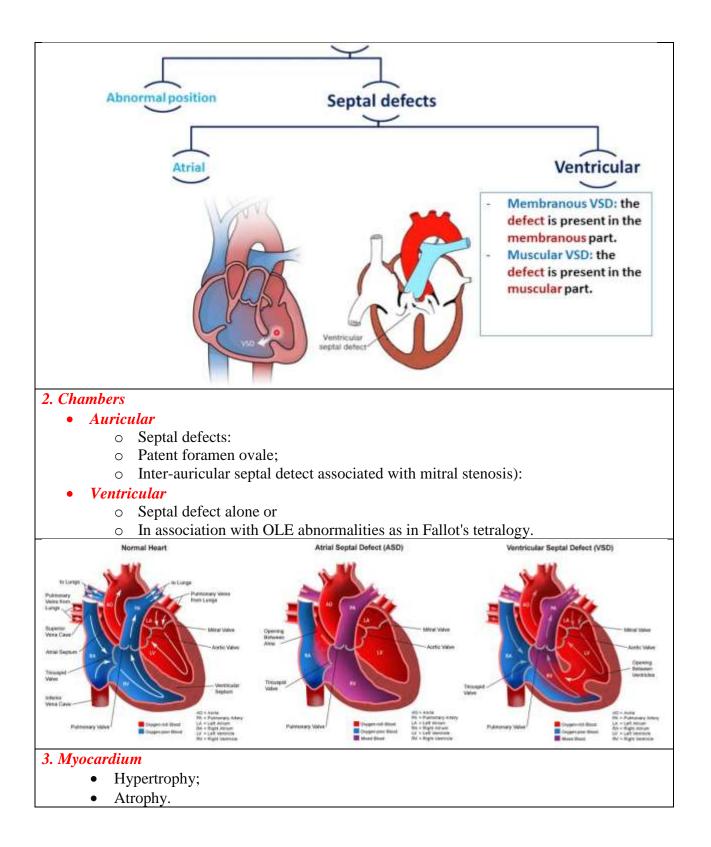
The anomalies may be in the heart or blood vessels:

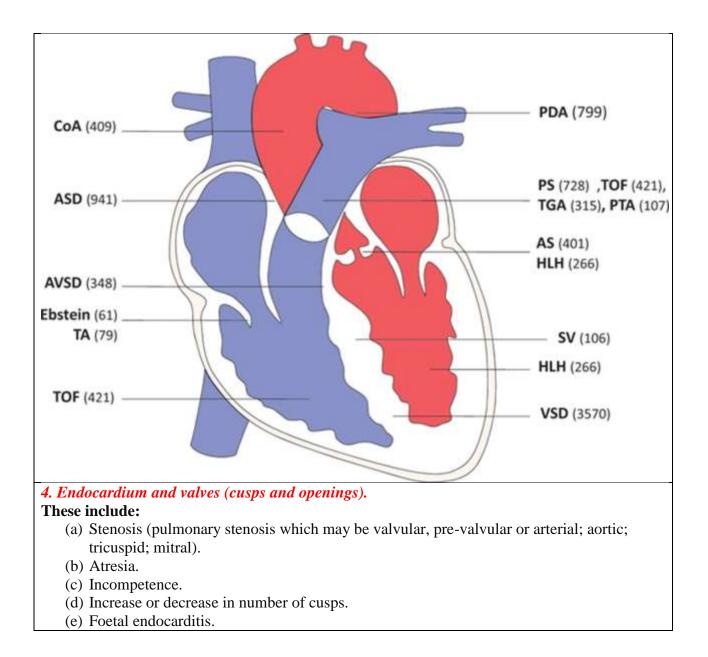
Obesity

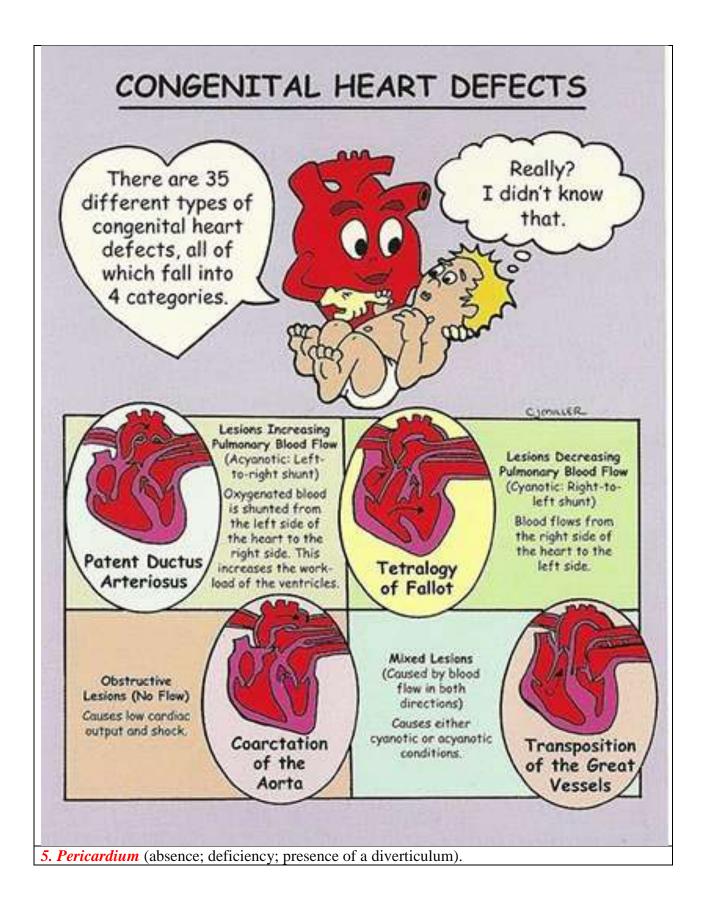
1. Position

Smoking

- Displacement;
- Rotation;
- Dextro-cardia;
- Situs inversus.

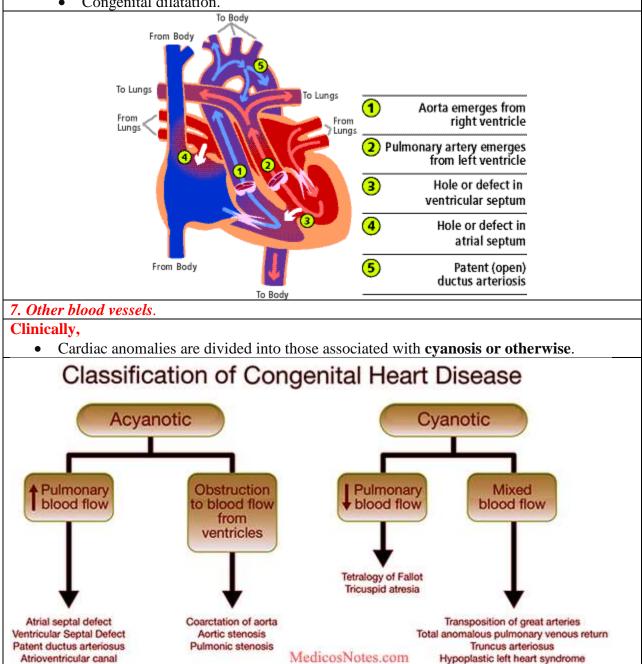


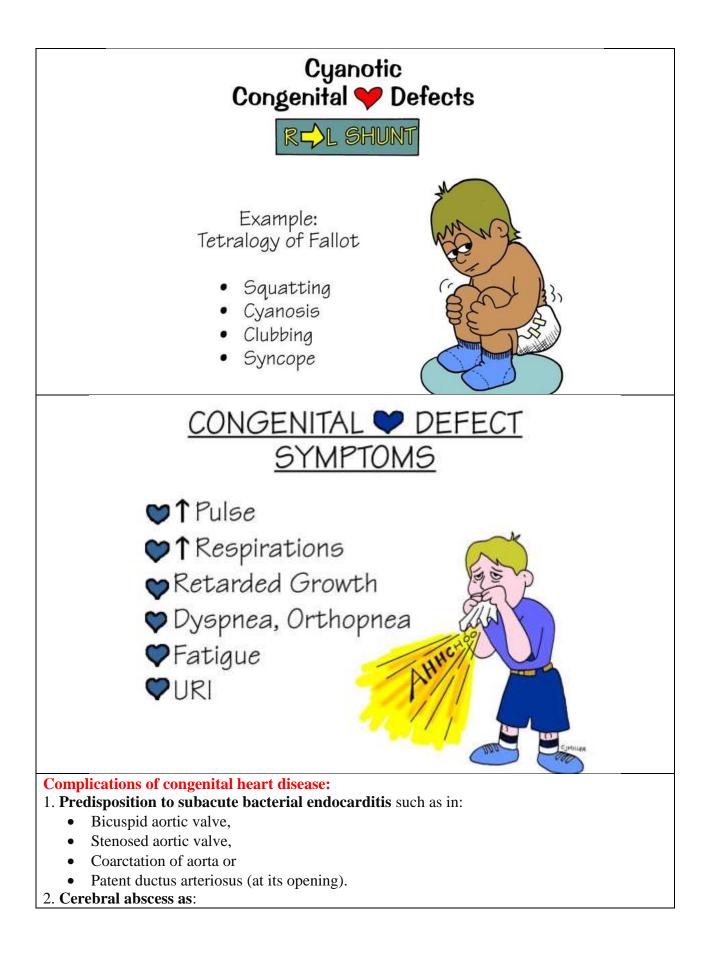




6. Aorta

- Diminution in size; •
- Stenosis:
- Coarctation whether infantile or adult type;
- Transposition of aorta and pulmonary artery; .
- Double arch of aorta; •
- Patent ductus arteriosus between the aorta and the pulmonary; •
- Congenital dilatation. •





- (a) When there is a possibility of a re-circulation of venous blood through the systemic circulation.
- (b) In tetralogy of Fallot.
- (c) In patent inter-atrial septum with left ventricular failure.

N.B. 2

Diseases of the myocardium:

1. - Acute myocarditis:

(a) Bacterial (interstitial):

- Suppurative;
 - Rheumatic;
- Syphilitic:
- Tuberculous;
- Sometimes certain drugs.

(b) Toxic (parenchymatous): Diphtheria.

- 2. Subacute myocarditis: (idiopathic; granulomatous; Fiedler's myocarditis).
- **3.** Chronic myocarditis (chronic interstitial = myocardial scarring):
- A condition of scarring with little or no signs of inflammation.
- Heart becomes fibrosed, firm, rigid and shows white strands at the cut surface especially at the anterior wall of left ventricle near apex or/and the interventricular septum.

Antecedent factors are

- (1) **Coronary artery occlusion** (atheroma; thrombosis on top of atheroma; spasm; syphilitic aortitis sealing opening of mouths of coronaries)
- (2) Old inflammatory and necrotic foci (rheumatism; diphtheria; typhoid fever). and
- (3) **Syphilitic myocarditis** (gumma of the myocardium is rare, in the upper part of inter *ventricular septum and may cause heart block by interrupting the conduction bundle*).

4. Degenerations of myocardium :

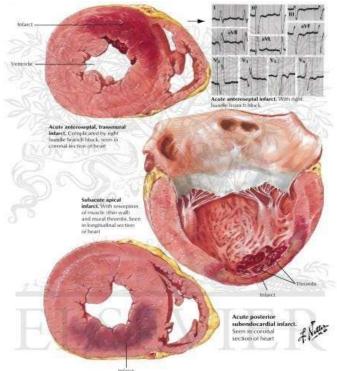
- (a) Albuminous (cloudy swelling).
- (b) Hydropic.
- (c) Amyloid (primary or secondary).
- (d) Fatty degeneration and infiltration.
- (e) Glycogen storage disease.
- (f) Calcification.

5. Atrophy and necrosis:

- (a) Brown atrophy and ischaemic (senile) atrophy.
- (b) Coagulation necrosis.

6. Parasitic infection

- 1. Malaria,
- 2. Bilharzia and
- 3. Hydatid cyst.
- 7. Fungus infection.
- 8. Fragmentation and segmentation.
- 9. Tumours.
- **10. Congenital abnormalities.**



© ELSEVIER, INC. - NETTERIMAGES.COM