

atrial septal defect:

- One of the most common congenital heart defects occur in twice in females.

Causus:

i) Ostium secundum defects $\Rightarrow$ Fossa ovalis.

Foramen Ovale.

ii) Ostium Primum $\Rightarrow$ Defect in atrioventricular septum.

Pathogenesis:

- As RV is compliant than LV, a shunting of blood from LA to RA, then to RV and pulmonary arteries.

- Gradual enlargement of RA, and pulmonary arteries so pulmonary hypertension.

- Shunt reversal (Eisenmenger's syndrome).

Complicate ASD occur later in life.

Clinical feature.

- Children are asymptomatic for many years and diagnosed later.

- Symptoms dyspnea, chest infections, cardiac failure, arrhythmia.

- Wide, fixed, splitting S₂ sound; due to delay in right ventricular ejection.

- Systolic murmur over pulmonary valve.

Investigation:

- Chest X-ray, Echo, ECG.

Management:

- Closure of the defect.