. Classification according to location

1. Secundum ASD (75-85%)

Hin the region of fossa ovalis, may be associated with:

- -PAPVR
- Pulmonic Stonosis
- Mitral value prolapse

4- Small: asymptomatic, closes within 1st yr spontaneously 4- Large: Dilatation of RA+RV, symptomatic later on.

2 primum ASD (10-15%)

Hat lower portion, usually large, associated with:

- cleft mitral value
- Common AU canal
- 3. Sinus venous defects
- 4 Sinus venous defects of IVC type
- 5. Coronary sinus defect
- •CVA resulting from paradoxy call embolization is a rare complication but important
- . Atrial fibrillation/Flutter is a late complication
- ·Lutembacher syndrome: ASD+ Mittal stenosis (from thatmatic fever)
- ·platypnea Orthodeoxia
 - L+Dysphea induced by the upright position 4 relicized by recumbency L+Arterial desaturation in the upright position with

improvement during recumbency

.Heart sounds of Murmur

- .Wide fixed splitting of S2
- . Accenuated 52 due to pulmonary HTN
- . No mumay

.Hemodynamics

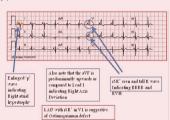
Blood returned from lungs to LA then:

- . ± 2/3 to LV then acritic (low CO)
- . ± 1/3 to RA &RV to pulmonary artery (Pulmonary Plethola)
 Later on pulmonary HTN occurs of Shunt reversal with cyanosis



.ECG

- RAD, rsk in VI
- _LAD in Osteum Primum defect
- _Tall P wave: R atrial enlargement
- -Atrial fibrillation, Atrial flutter



.Chest X-Ray

- -Dilabation of RA+RV
- Enlarged main pulmorary arteries of pulmorary viewels



Treatment

Ampletzer-occlusion device + Surgery

.Chromosomal disorders associated with VSD

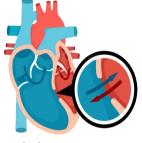
- _T21,T18,T13
- -TOF
- Hand-Healt Syndrome

. Classification

- 1. Type I (Conal, outlet, Subpulmonic)
- Not common
- Sporteneous closure uncommon
- Associated with aboutic regurgitation
- 2. Type I Cperimembraneous)
- Mast common
- Close spontaneously
- 3. Type TT (AV cancel, Inlet)
 - -Associated with AV defact
 - Doesn't close sponteneously
- 4. Type IV (Muscular)
- often multiple
- Close sponteneously

.Hemodynamics

- -During ventricular contraction, some of blood leaks from LV to RV. Passes through the lungs of reconst the LV, this has 2 net effects:
 - 1. Volume overload on LV
 - 2. Pulmonary HTN with pressure overload on RV



VSD

The most common congenital heart disease

· Symptoms

- -Asymptomatic if a small defect
- _Low CO symptoms -> Feeding difficulties -> Footigue -> Footigue -> Footigue
- Recurrent chest infections

· Complications

- Heart: HF, infective endocarditis
- Chest: Recurrent chest infactions
- Shunt: Eisenmenger Syndrome

. Eisenmenger syndrome

- Shunt reversal (R->L)
- Ganosis
- permanently damages the BV in the lung

.Chest x-Ray

- Cardiomegaly
- -1 pulmonary blood flow (plethora)



. Mumur + Heart sounds

- -PSM at left sternal border. Max intensity is best heard at 3th, 4th, 5th left intenspace
- -Accenuated S2 due to pulmonary HTN

. Small restrictive VSD

- -73% Spontaneously closed < 240
- Rarely poduce PH
- Asymptomatic
- Musmus can be present since a few days after birth

.Large/Non-restrictive VSD

- -Raiely close spontaneously
- Produce PH in less than 2 gis
- Recurrent chest infection
- Defective growth
- Moderate cyanosis with exception
- -CHF in 1st ye of life
- Functional capacity markedly reduced Symptoms develop soon after birth

.ECG

-Birentricular hypertrophy (Lthen R)
L> Kaltz Wetchtel sign · large biphasic GRS
complexes in V2-4

