

AVSD: the AV junction


## AVSD



## AtrioVentricular Septal Defect <br> (Atrioventricular canal defect, endocardial cushion defect, ostium primum ASD)

A Group of Malformations unified by -

- Common AV Junction
- Together with biventricular AV Connections
(2 atria, each connected to its own ventricle)


AVSD


## AVSD: left AV valve



## AVSD: left AV valve



## AVSD: superior bridging leaflet

How much of the superior bridging leaflet (SBL) inserts into the RV?

Minimal bridging
 (Rastelli A)


Intermediate bridging (Rastelli B)


AVSD: Outflow tract 2-chamber view


AVSD: Inflows: 4-chamber view


## AVSD: level of shunting

Bridging leaflets attached
to ventricular septum


Interatrial
('ostium primum ASD'.
partial / incomplete AVsD )

Bridging leaflets attached to atrial septum


Interventricular
Interatrial of interventricular
(complete AVSD / canal) (VSD component only) (transitional / intermediate)

鲭AVSD: LVOT


## AVSD: Associated anomalies

- Right ventricular outflow obstruction
- tetralogy of Fallot
- Left ventricular outflow obstruction
- Isomeric arrangement of atrial appendages

Right isomerism: usually common AV valve orifice
Left isomerism: usually separate AV valve orifices
left-hand ventricular topology (ventricular inversion')

- Others.....valvar anomalies, coarct., etc
- Chamber disproportion
- Deviation of ventricular or atrial septum


## AVSD: LVOTO



## AVSD: Unbalanced



AVSD without septal defect

septa malaligned: unbalanced atria, balanced ventricles


## AVSD

## Constants

- Biventricular AV connections
- Common atrioventricular junction
- Inlet-Outlet disproportion

Tips:

- Hole in the middle of heart on 4-chamber plane \& lack of offset between right and left AV valves (no TV or MV)


Imperid Colleg

nww.rteht.nhs.uk/Morphology


