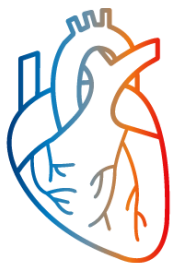
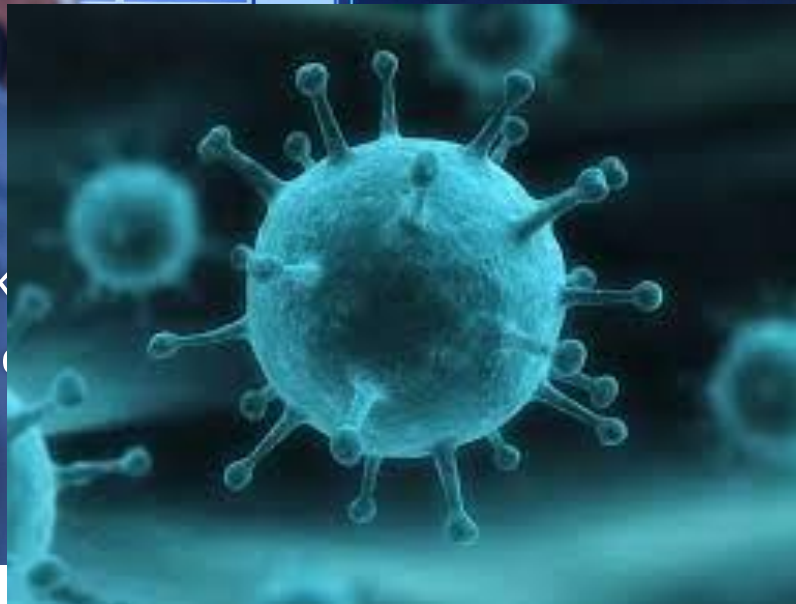


De vele aspecten van AVSD

Regina Bokenk
Kinder(interventie)C
CAHAL



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Center for Congenital Heart Disease

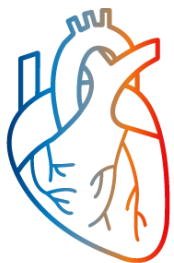
Amsterdam - Leiden

L **U** Leiden University
M **C** Medical Center

 **Amsterdam UMC**
University Medical Centers

De vele aspecten van AVSD

Regina Bokenkamp,
Bart Straver
Kinder(interventie)cardioloog
CAHAL



CAHAL

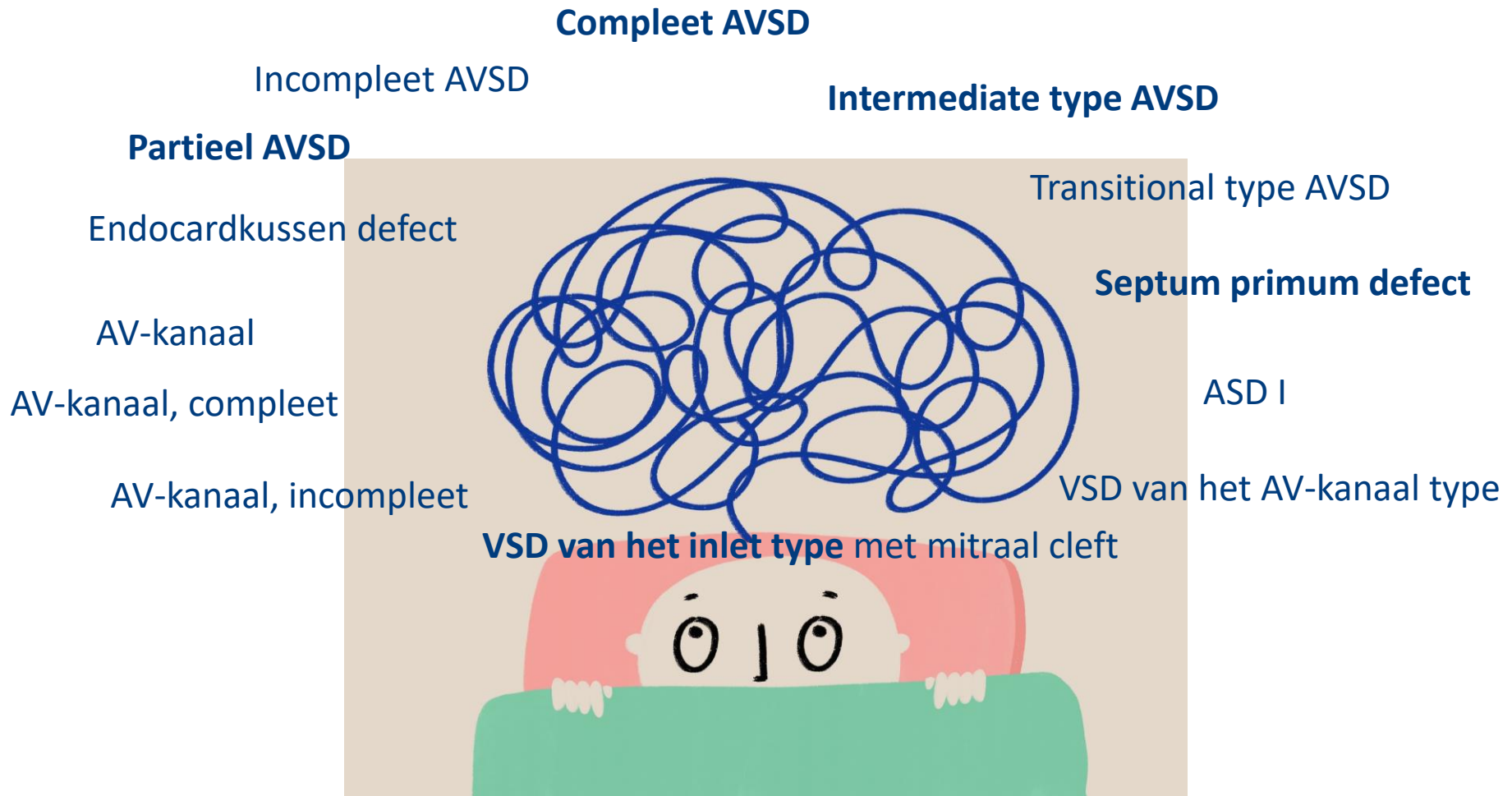
Center for Congenital Heart Disease

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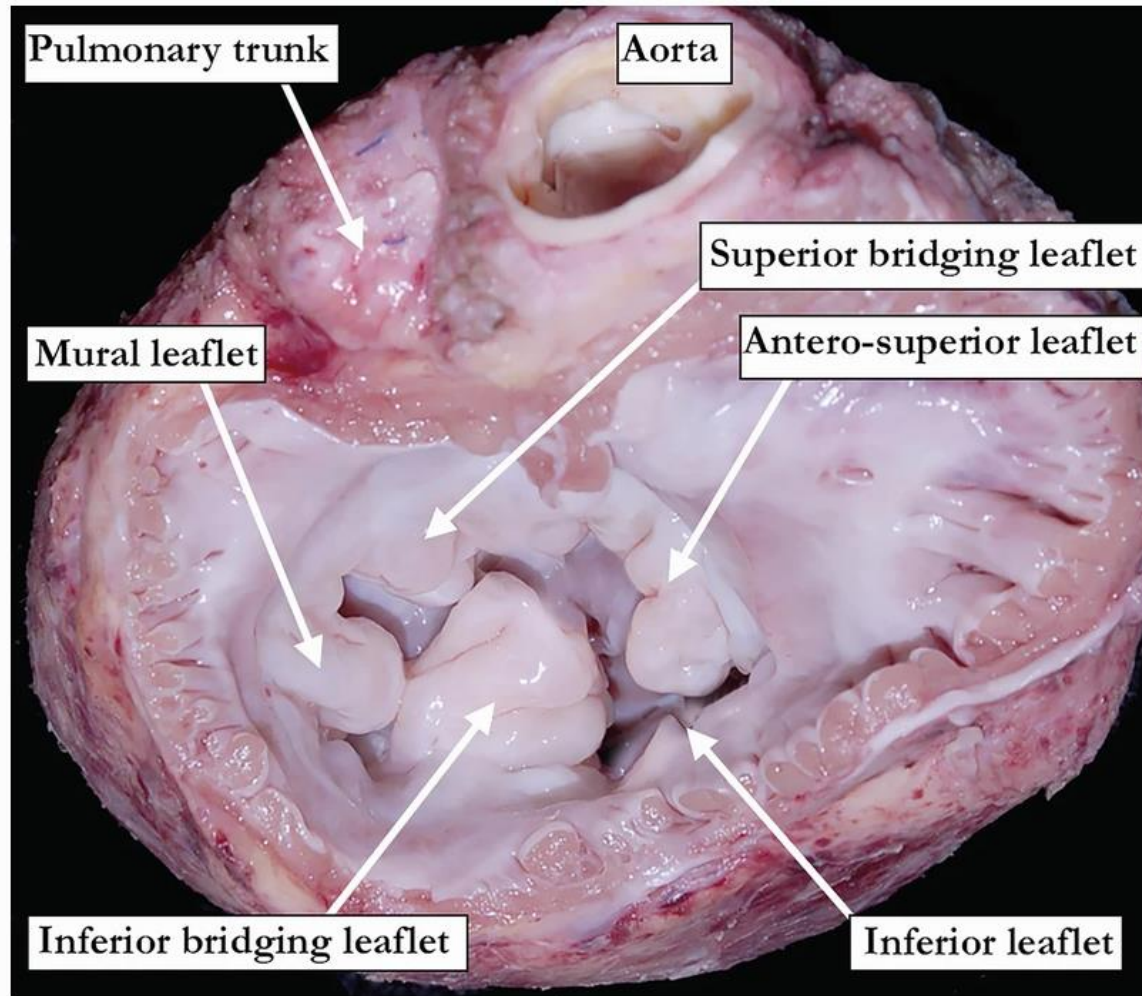
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Inleiding – atrioventriculair septum defect (AVSD)



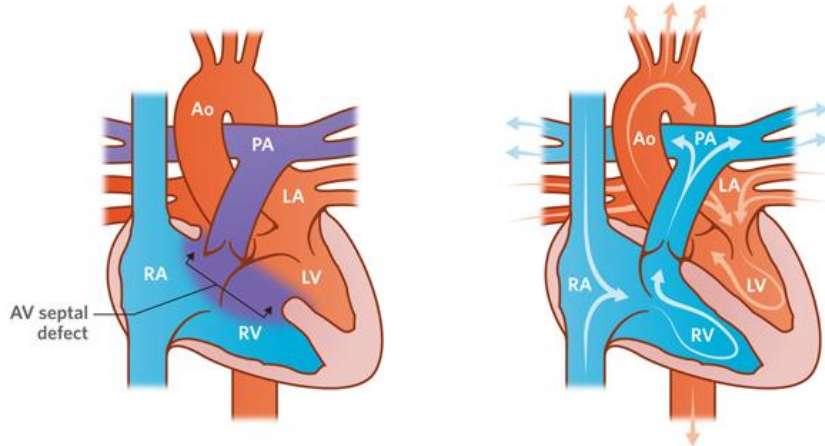
Hartbasis met gemeenschappelijke “common”AV-klep



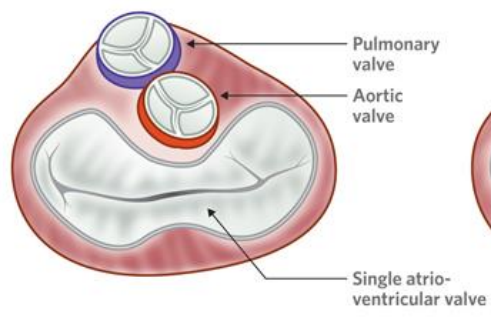
AVSD versus normaal



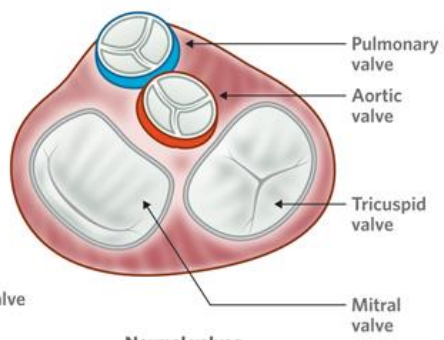
Atrioventricular septal defect



Normal heart and circulation



'Shared' atrioventricular valve



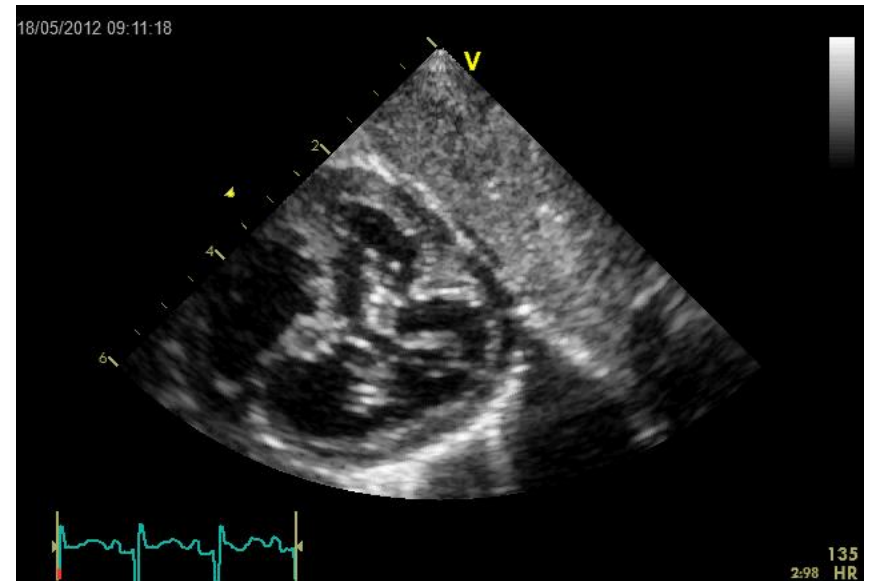
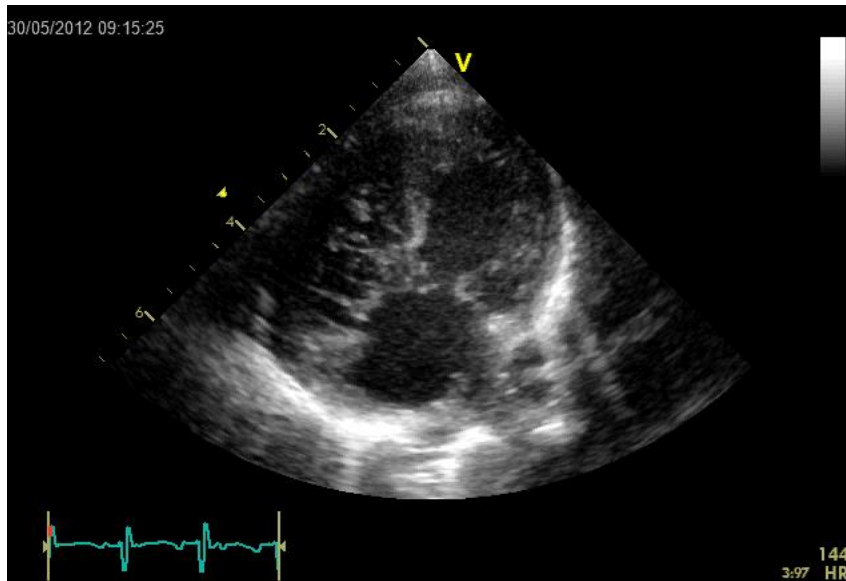
Normal valves

© The Royal Children's Hospital, Melbourne, Australia

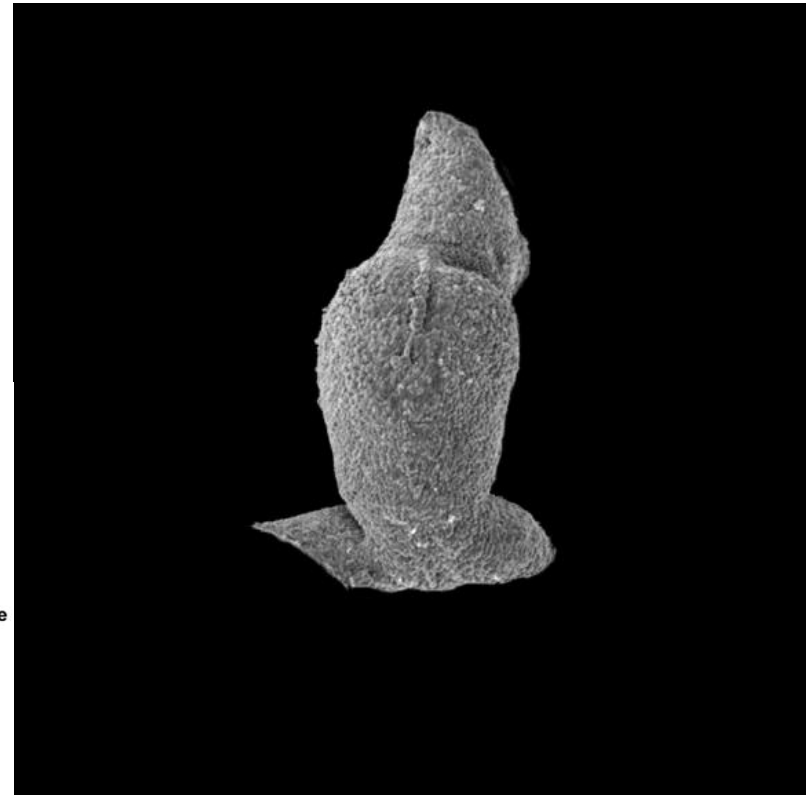
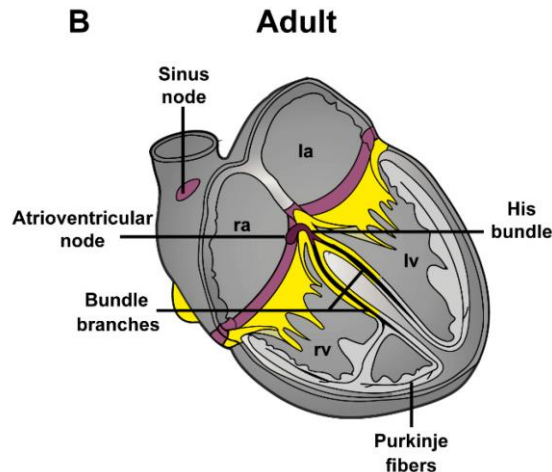
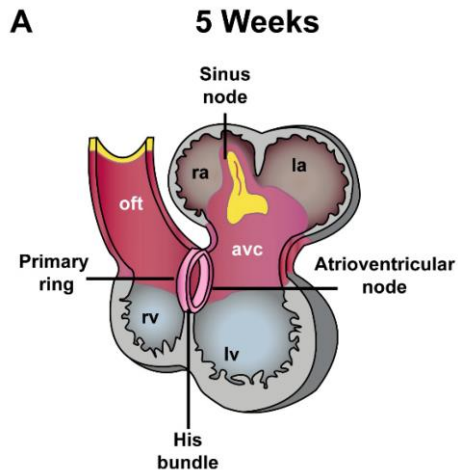
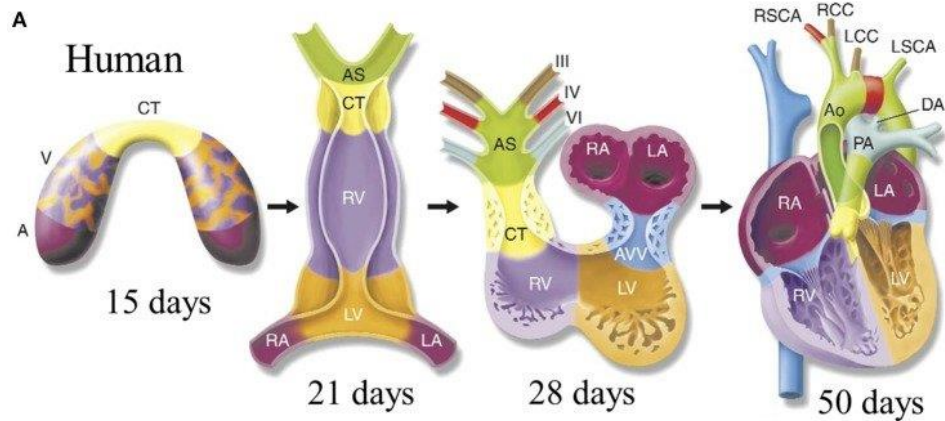
Echocardiografisch beeld AVSD



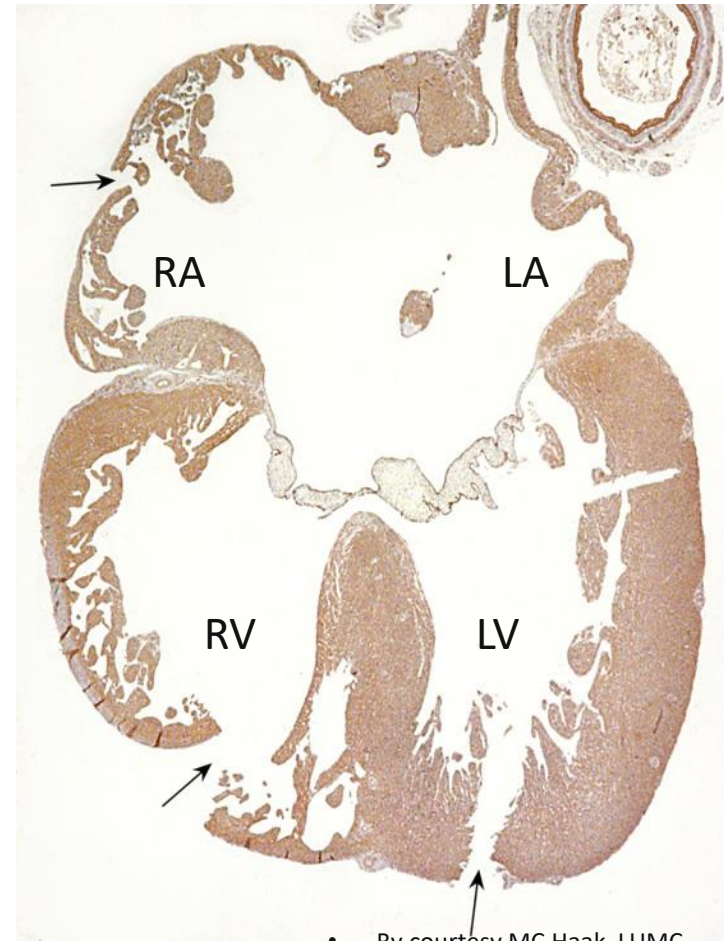
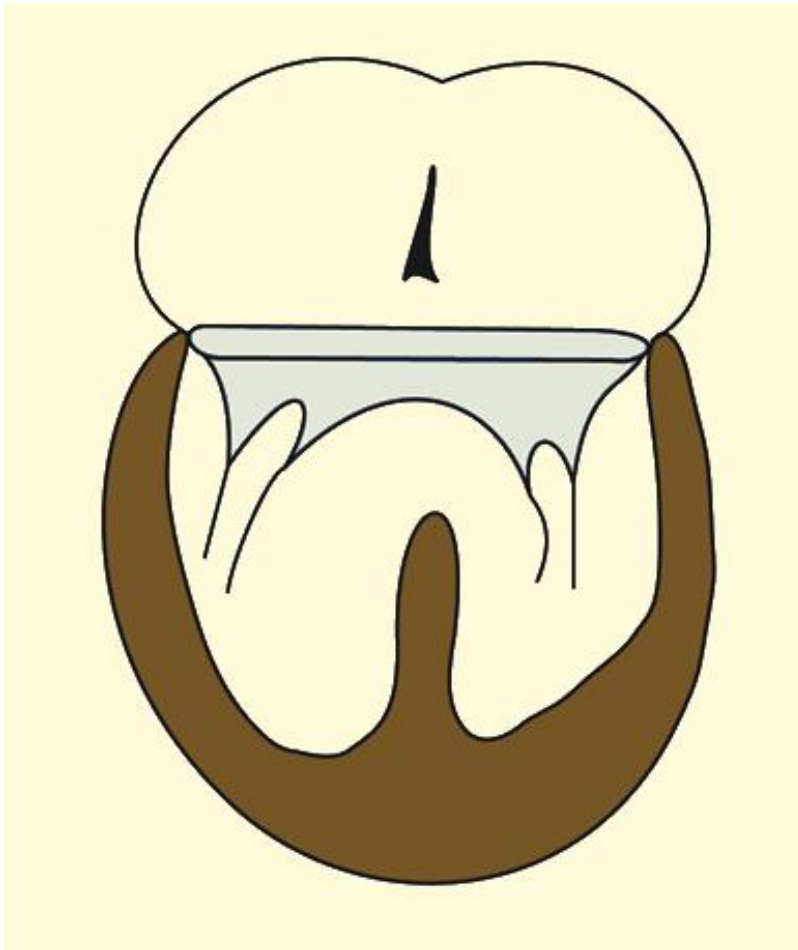
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We allen hadden ooit maar een AV- klep boven het linker ventrikel...



Common AV-klep bij 13 weken ontwikkeling



• By courtesy MC Haak, LUMC

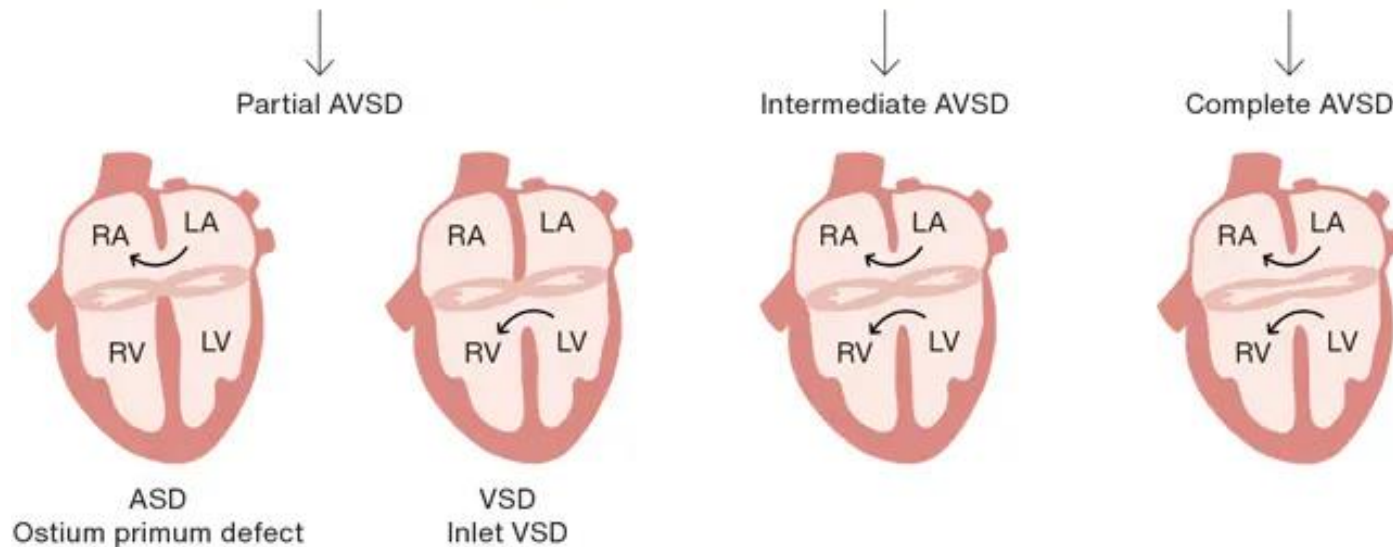
AVSD feiten



- Prevalentie 5:10.000 levendgeborenen
- AVSD komt voor als deel van meer complexe hartafwijkingen en genetisch syndroom
- Ca. 40% heeft geen herkenbare oorzaak
- Meest bekend is de associatie met trisomie 21 (Down syndroom) 30-40% van de patienten hebben een vorm van AVSD

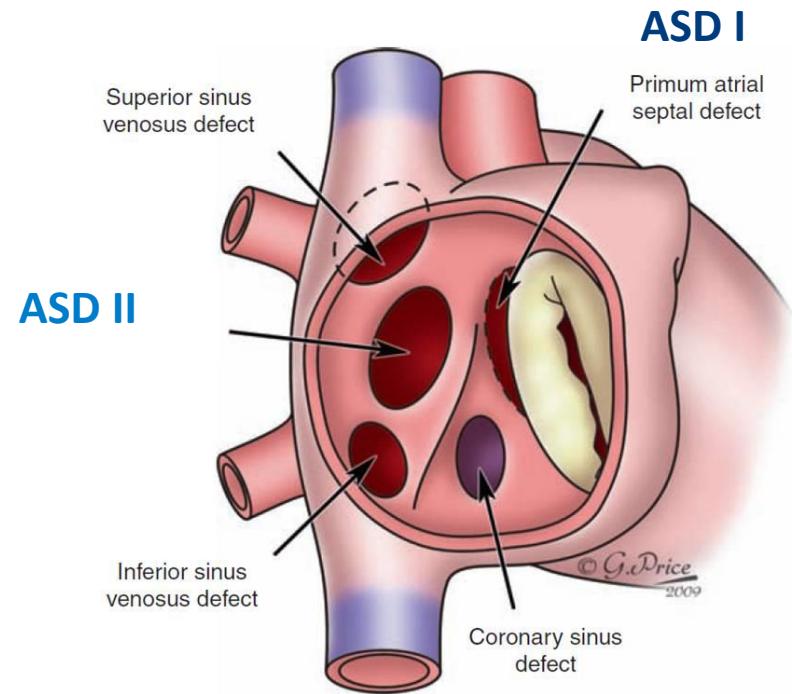
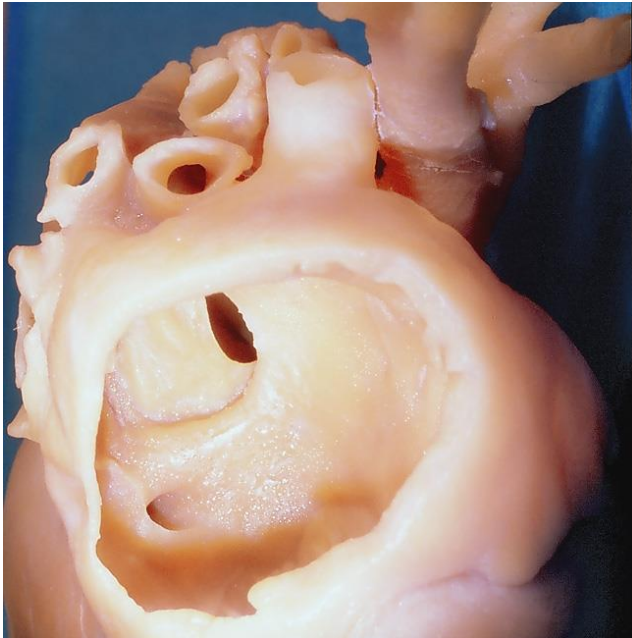
FIGURE 1 Classification of atrioventricular septal defect.

Atrioventricular septal defect



ASD = atrial septal defect; AVSD = atrioventricular septal defect; LA = left atrium; LV = left ventricle;
RA = right atrium; RV = right ventricle; VSD = ventricular septal defect.

ASD and landmarks



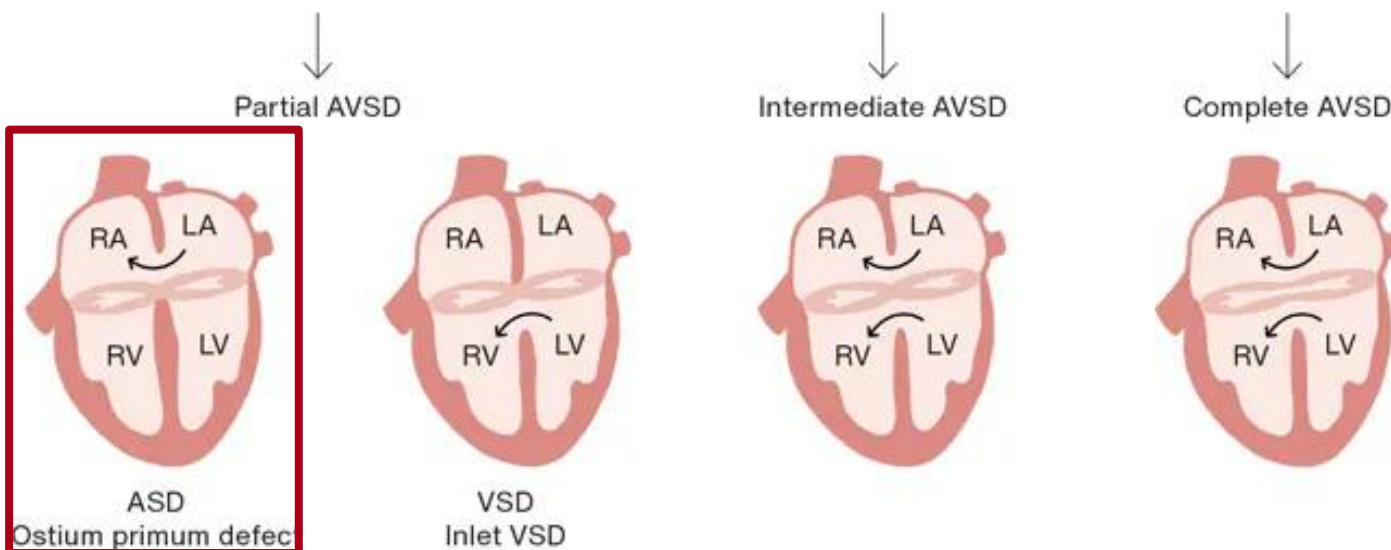
AVSD/ASDI





FIGURE 1 Classification of atrioventricular septal defect.

Atrioventricular septal defect

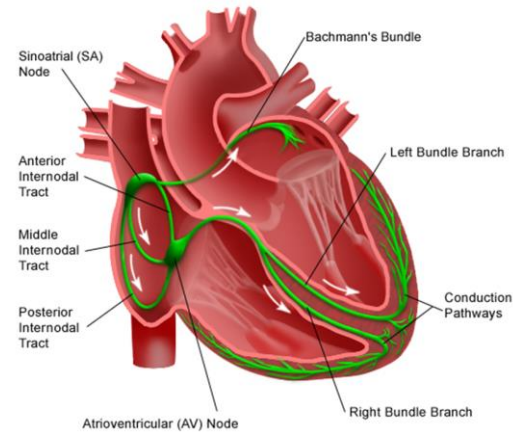
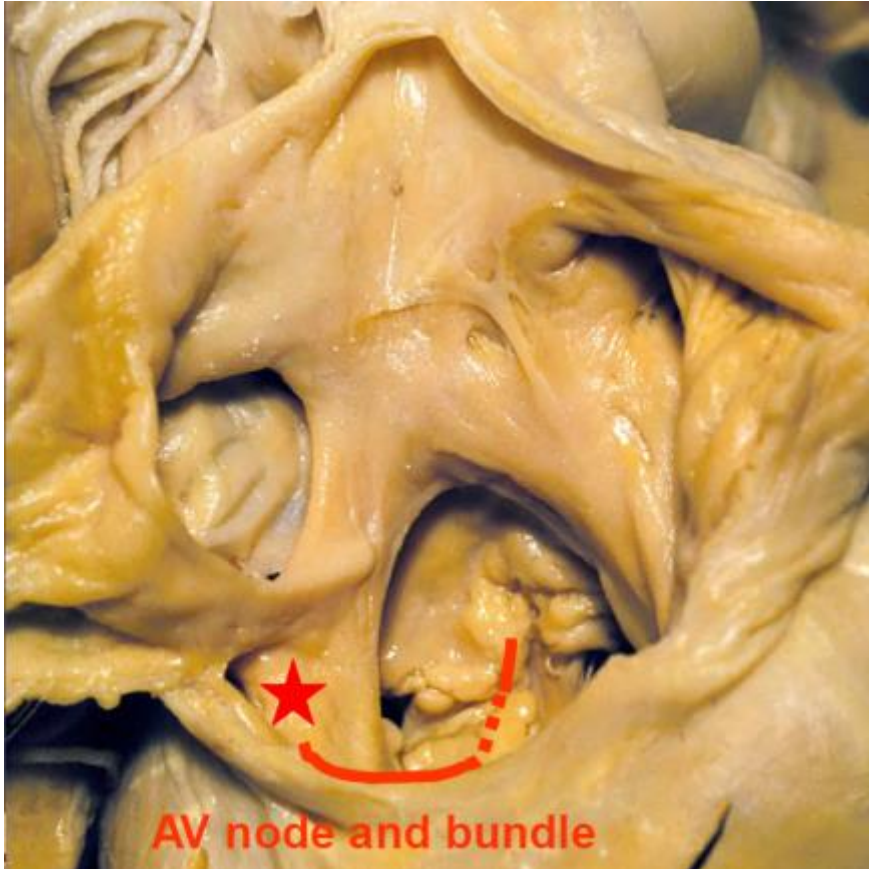


ASD = atrial septal defect; AVSD = atrioventricular septal defect; LA = left atrium; LV = left ventricle;
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Geleidingssysteem in AVSD



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Normaal geleidingssysteem

De AV-knoop ligt verplaatst naar posterior inferior

Er is een langere verbinding van de His-bundel naar de rechter en linker bundel

Common AV-klep vanuit kamers

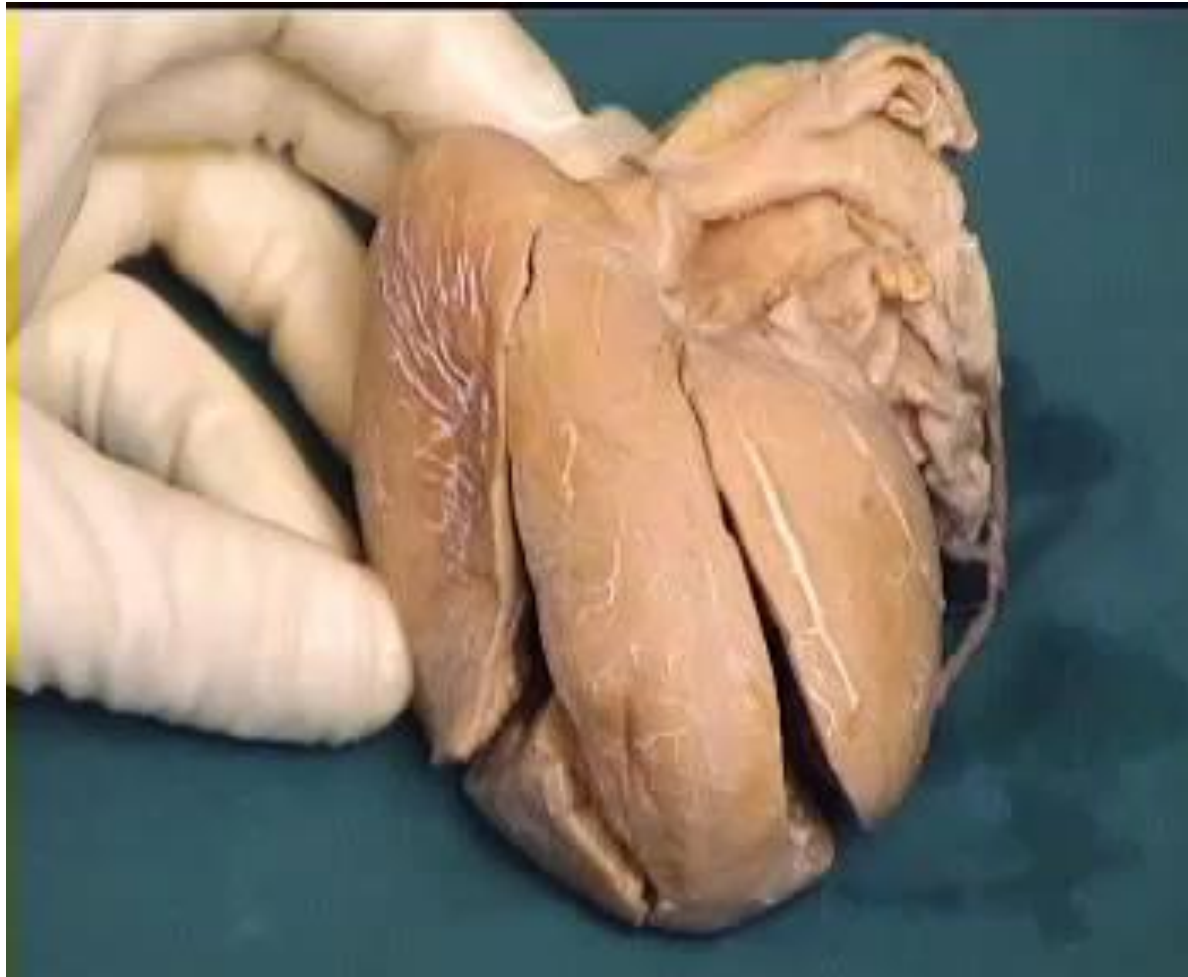
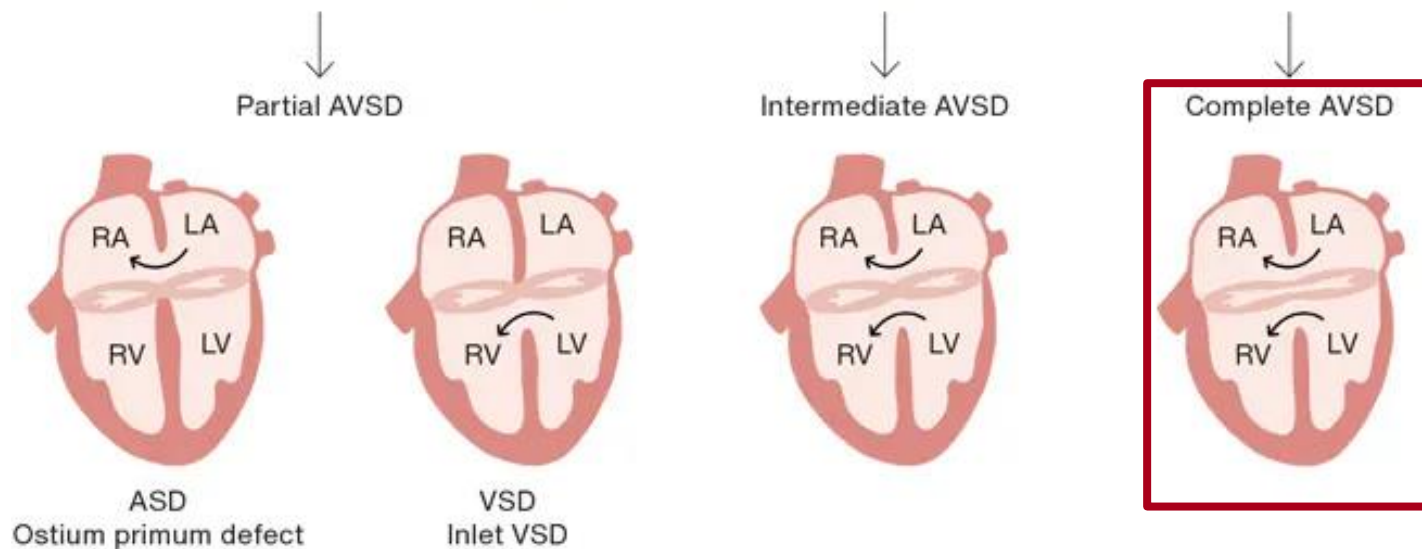


FIGURE 1 Classification of atrioventricular septal defect.

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Bijkomende afwijkingen



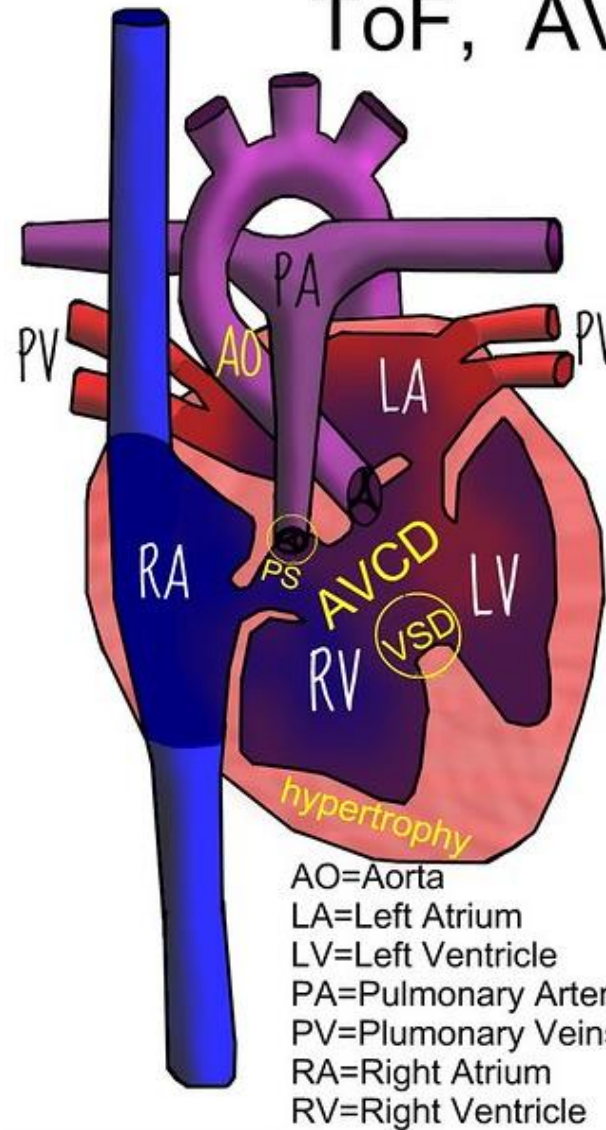
- PDA
- Rechter kamer uitstroom zoals in 5% Fallot (meeste patienten hebben trisomie 21)
- Afwijkingen aan AV-klep
- Isomerisme
- Unbalanced AVSD – vaker rechts-dominant

AVSD met Fallot





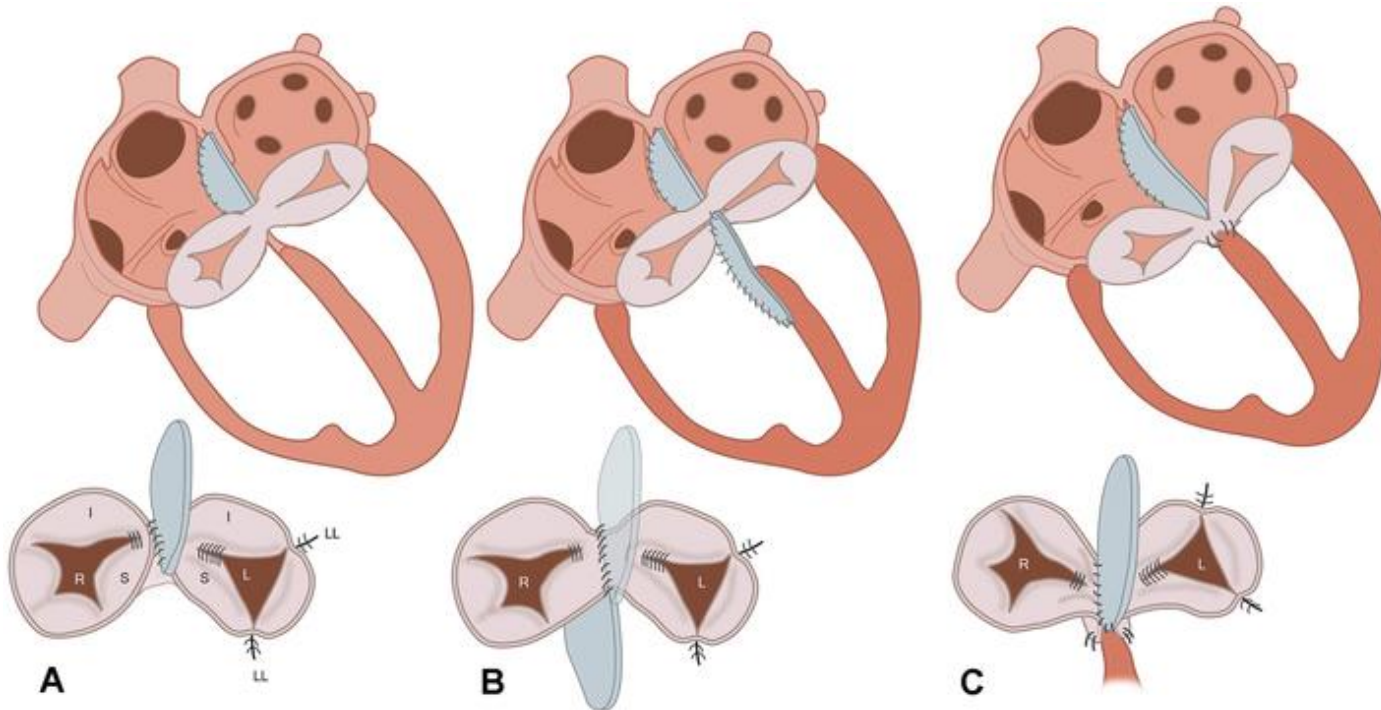
ToF, AVCD



Klinische aspecten – afhankelijk van anatomie



Chirurgische correctie –afhankelijk van anatomie



Inleiding – atrioventriculair septum defect (AVSD)



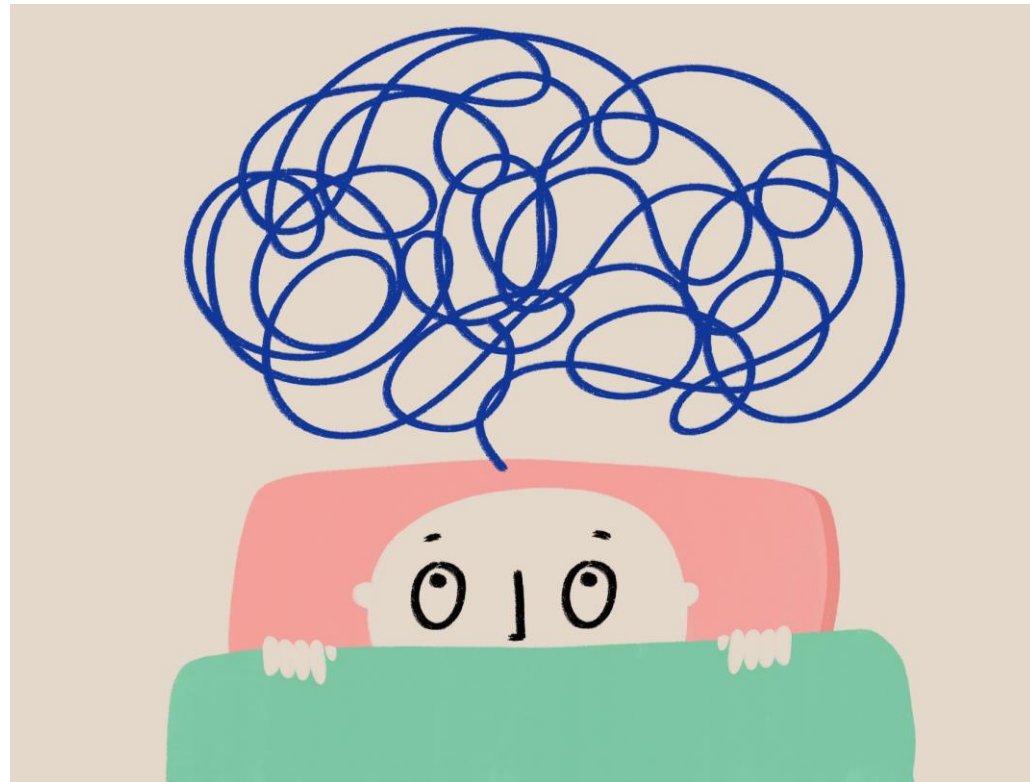
Compleet AVSD

Intermediate type AVSD

Partieel AVSD

Septum primum defect

VSD van het inlet type



Conclusie

- De morfologie van de common-AV-klep is essentieel voor de beoordeling van patienten met AVSD
- Zowel symptomen als postoperatief resultaat worden door de AV-klep morfologie bepaald
- Behandeling van alle vormen van AVSD is chirurgisch
- Ook op lange termijn blijft de AV –klep anatomie heel belangrijk en zorgt voor ca. 30% re-ingrepen.

Hartelijk dank voor uw aandacht!

- Met dank aan de “Leiden Collection of Malformed Hearts” en de afdeling anatomie en embryologie

- R. Bokenkamp
- M.R.M. Jongbloed
- M.M. Bartelings

