

BEELDVORMING NA DE GEBOORTE

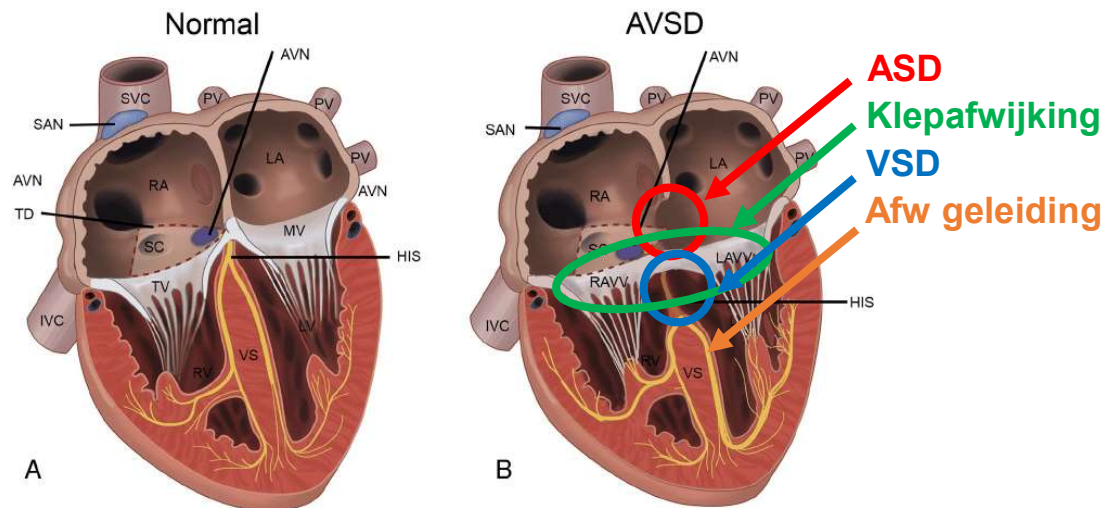
AtrioVentriculair Septum Defect (AVSD)

Utrecht Sessions Symposium

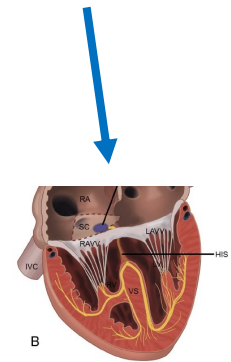
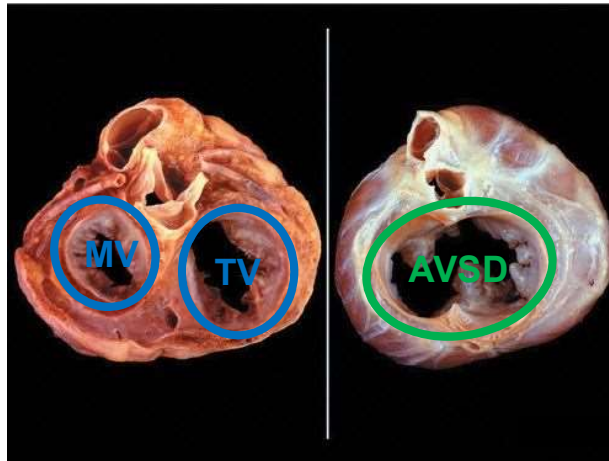
B.R. Rebel
Kinder cardioloog, Erasmus MC Sophia
Academisch Centrum Aangeboren HartAfwijkingen



AVSD > ASD + VSD

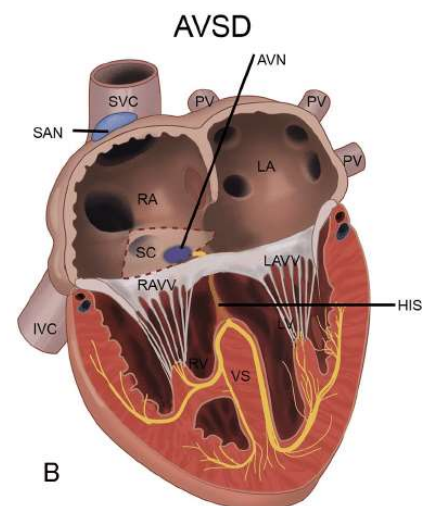


AVSD > ASD + VSD

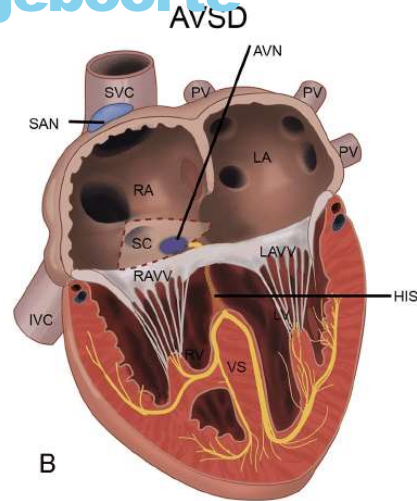
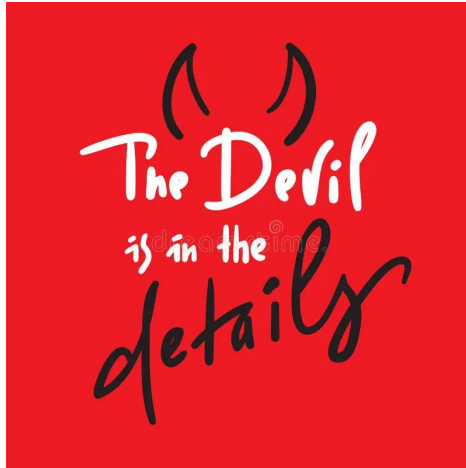


Beeldvorming

- Exacte Diagnose
- Chirurgische mogelijkheden
- Voorbereiding operatie / interventie
- Operatie resultaat
- Prognose
- Opsporing complicaties



Beeldvorming na de geboorte



Exacte Diagnose

- Shunt
 - Atrium Septum Defect (ASD)
 - Ventrikel Septum defect (VSD)
- Kamers en boezems
 - *Formaat (groot genoeg?)*
- AV-kleppen
 - *Aanleg Klepbladen*
 - *Functie*
 - *Bevestiging*
- Uitstroom van de kamers
 - *Aorta*
 - *Longslagader*
- Bijkomende afwijkingen

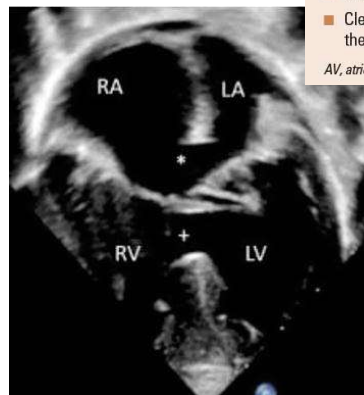
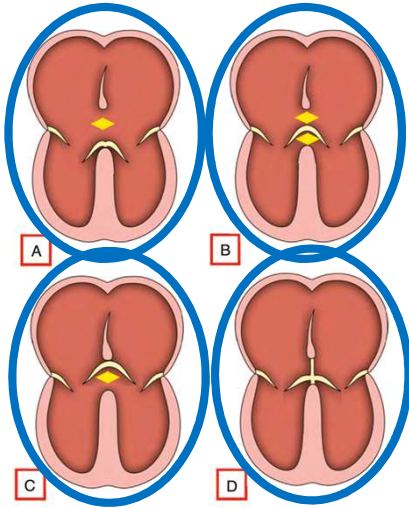


TABLE 7.2 Anatomic Features of All Atrioventricular Septal Defects

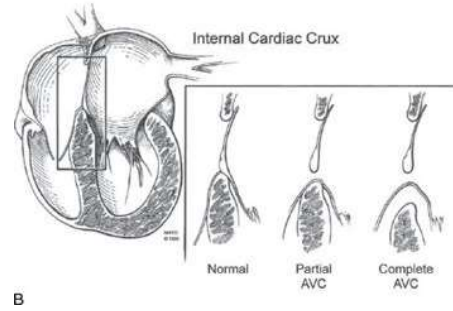
- AV valves insert at same level at the cardiac crux
- Absence of the AV septum
- Unwedged and anterior displacement of the aortic valve
- Elongated LVOT
- Counterclockwise rotation of LV papillary muscles
- Cleft of left AV valve component, directed toward the ventricular septum

AV, atrioventricular; LV, left ventricle; LVOT, left ventricular outflow tract.

1) Shunt

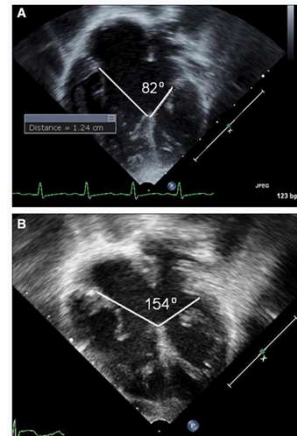
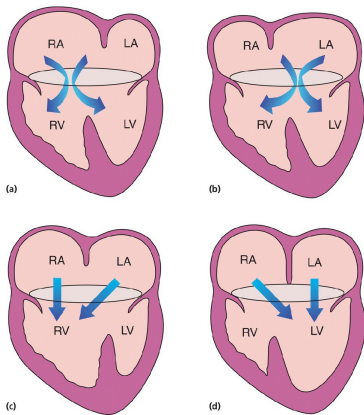


- A) Boezemshunt: pAVSD / ASD-I
- B) Boezem- en kamershunt: cAVSD
- C) Kamershunt
- D) Geen shunt



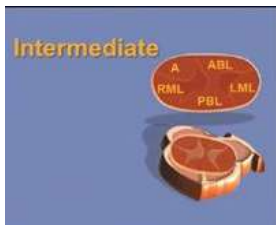
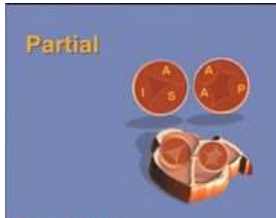
Erasmus MC
Sophia Kinderziekenhuis
ACAHA
Erasmus

2) Kamers en Boezems (hoe groot is groot genoeg?)



Erasmus MC
Sophia Kinderziekenhuis
ACAHA
Erasmus

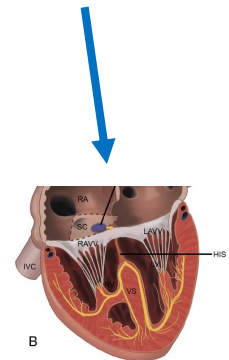
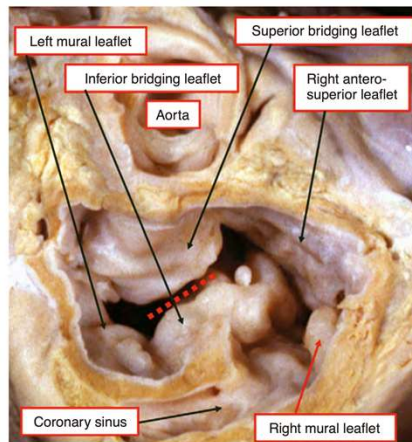
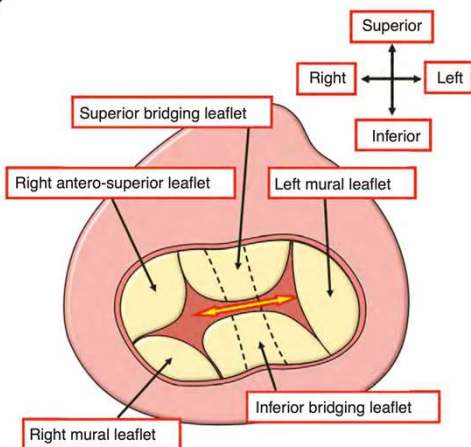
3) AV-kleppen



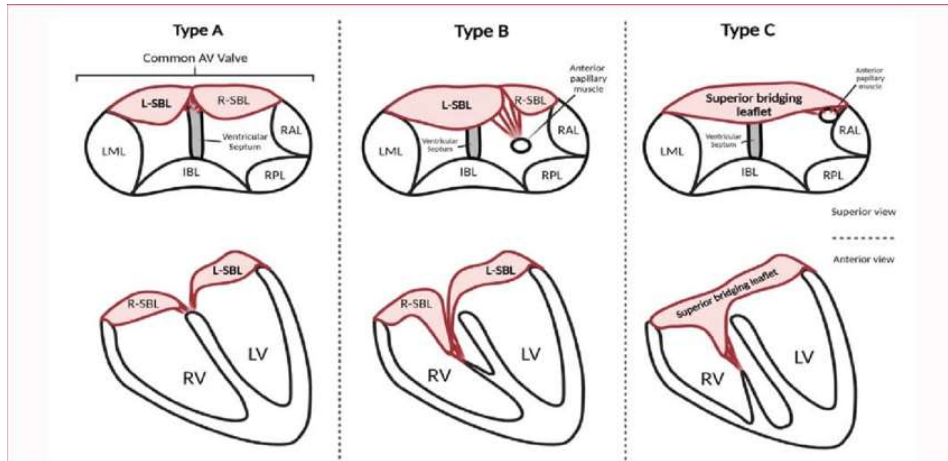
Distinguishing Features of Various Types of Atrioventricular Septal Defects	
Type of AVSD	Features
Partial	Primum ASD Cleft anterior mitral leaflet
Transitional	Primum ASD Cleft anterior mitral leaflet Inlet VSD (small), mostly obliterated by chordal attachments to the septum
Intermediate	Primum ASD Inlet VSD (large) Common AV valve annulus, separated by a tongue of tissue into two orifices
Complete	Primum ASD Inlet VSD (large) Common AV valve with five leaflets

ASD, atrial septal defect; AV, atrioventricular; VSD, ventricular septal defect.

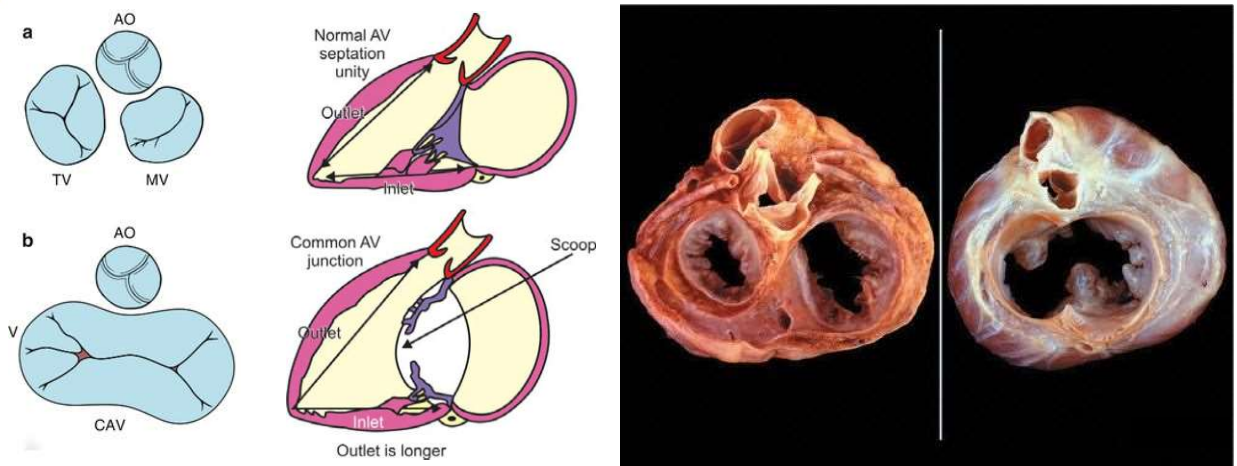
3) AV-kleppen



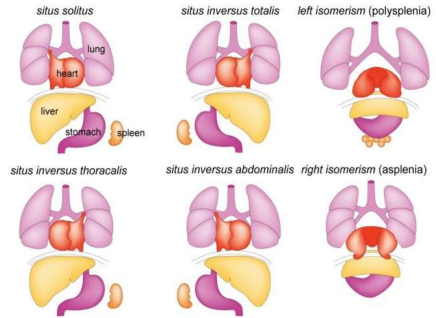
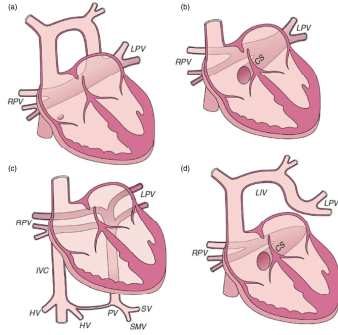
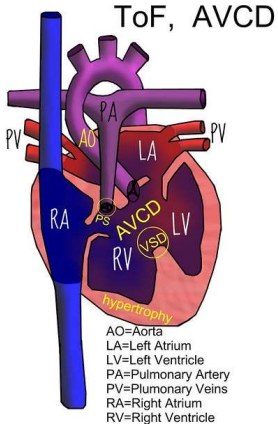
3) Bevestiging kleppen



4) Uitstroom vd kamers "gooseneck"



5) Bijkomende afwijkingen

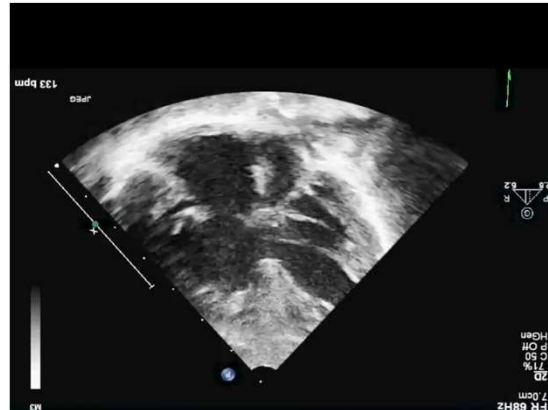
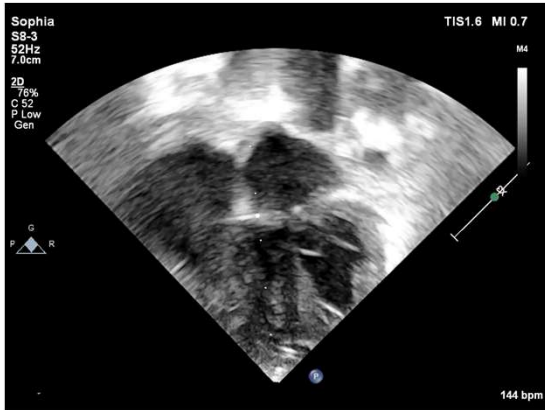
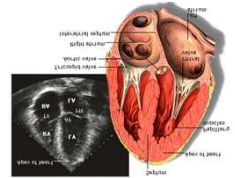


Antenataal



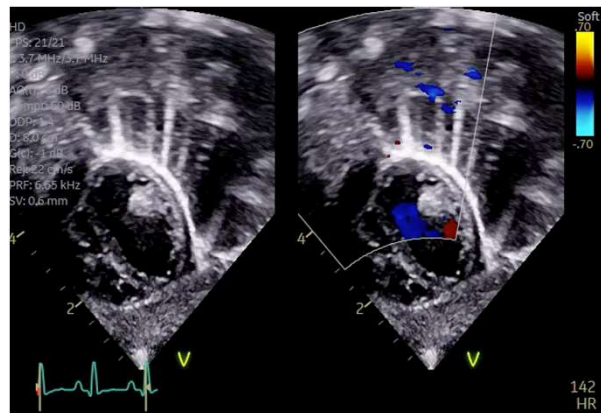
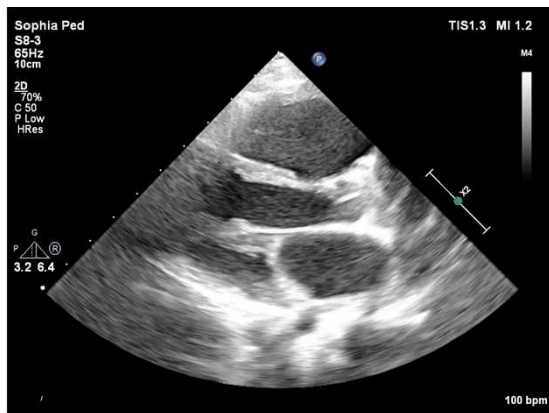
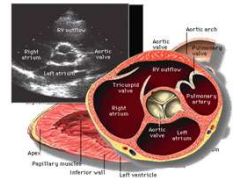
Conventionele Echocardiografie

4) Bevestiging AV kleppen

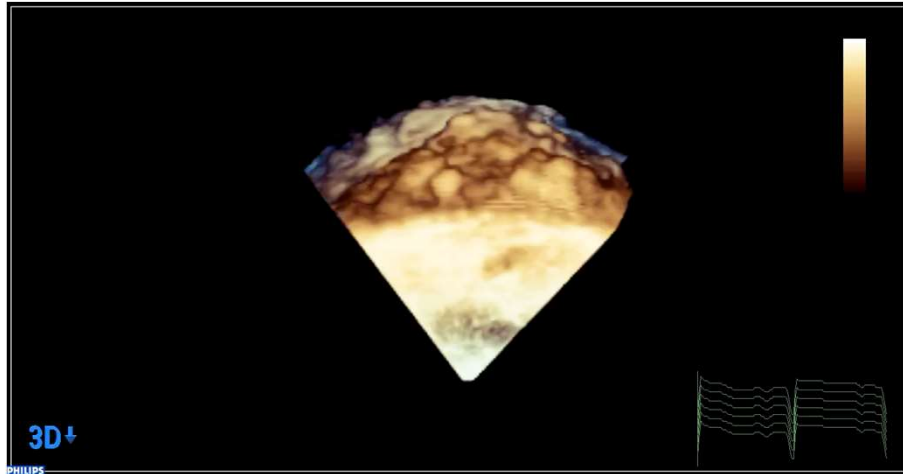


Conventionele Echocardiografie

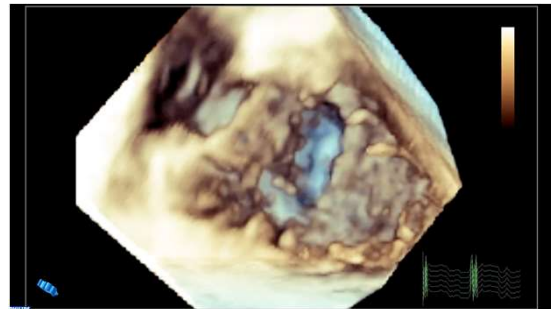
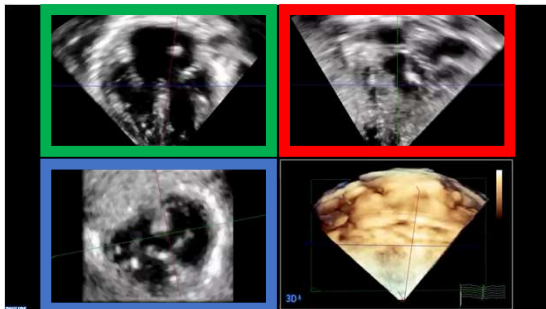
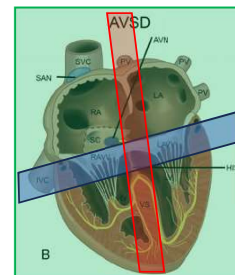
5) Uitstroom van de kamers



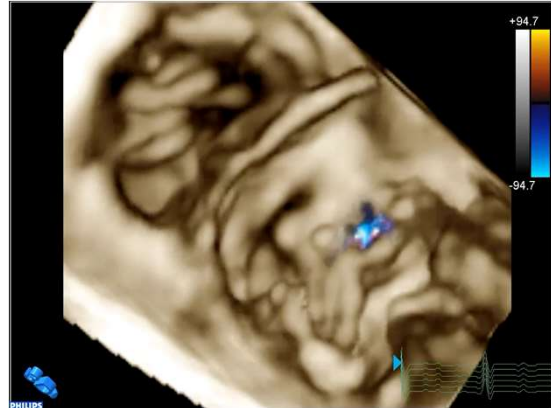
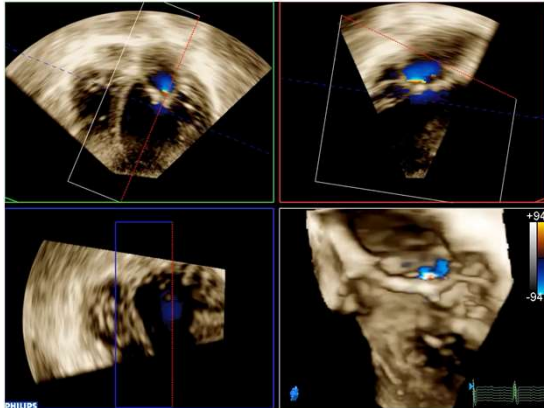
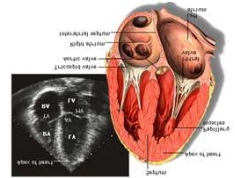
3^e dimensie



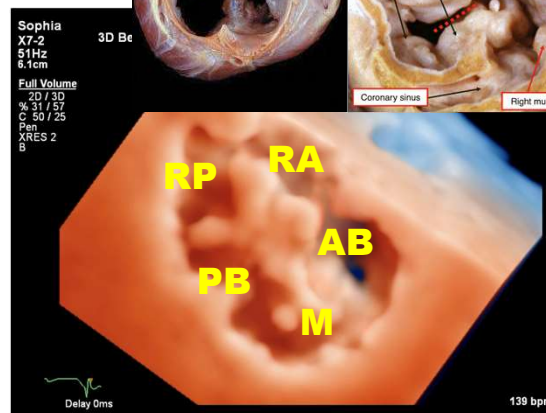
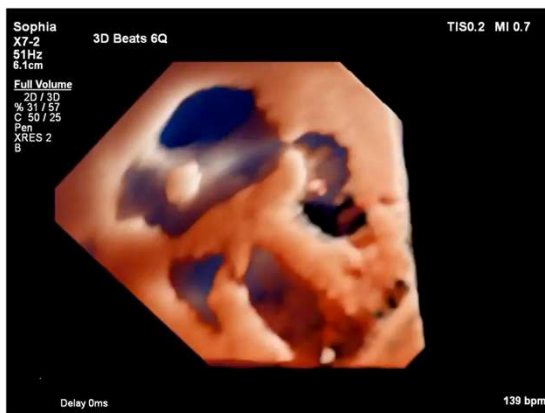
Analyse 3D volume



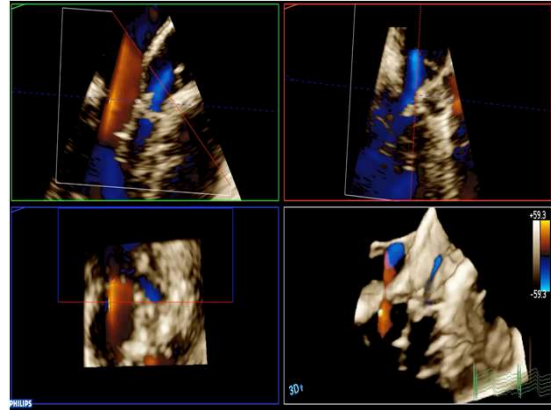
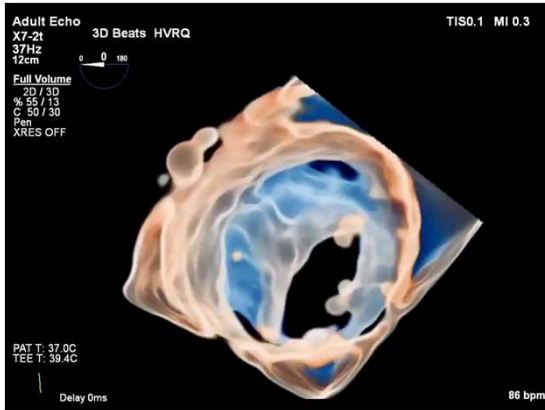
Analyse van een 3D volume Doppler



Analyse van een 3D volume

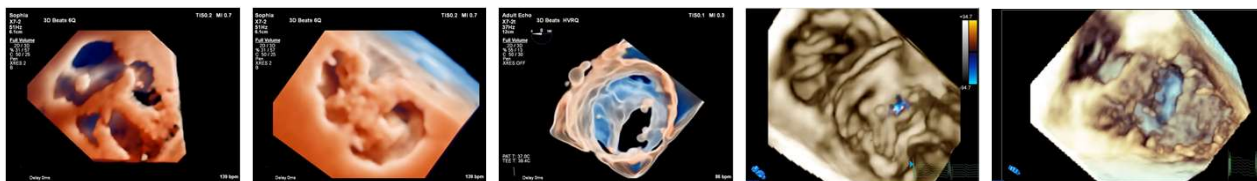


Postoperatief



Conclusie

- Complexe hartafwijking
- Veel verschillende sub-vormen (groep afwijkingen)
- Exacte diagnose van groot belang voor chirurgisch resultaat
- Mogelijkheden hangen af van de exacte anatomie
- Echografische controle operatief resultaat voor evt revisie
- Levenslange followup met goede beeldvorming noodzakelijk



Amalia kinderziekenhuis
Radboudumc

Erasmus MC
Sophia Kinderziekenhuis
Erasmus

Dank



ACAHA
Academisch Centrum Aangeboren Hartafwijkingen

ErasmusMC Sophia Kinderziekenhuis