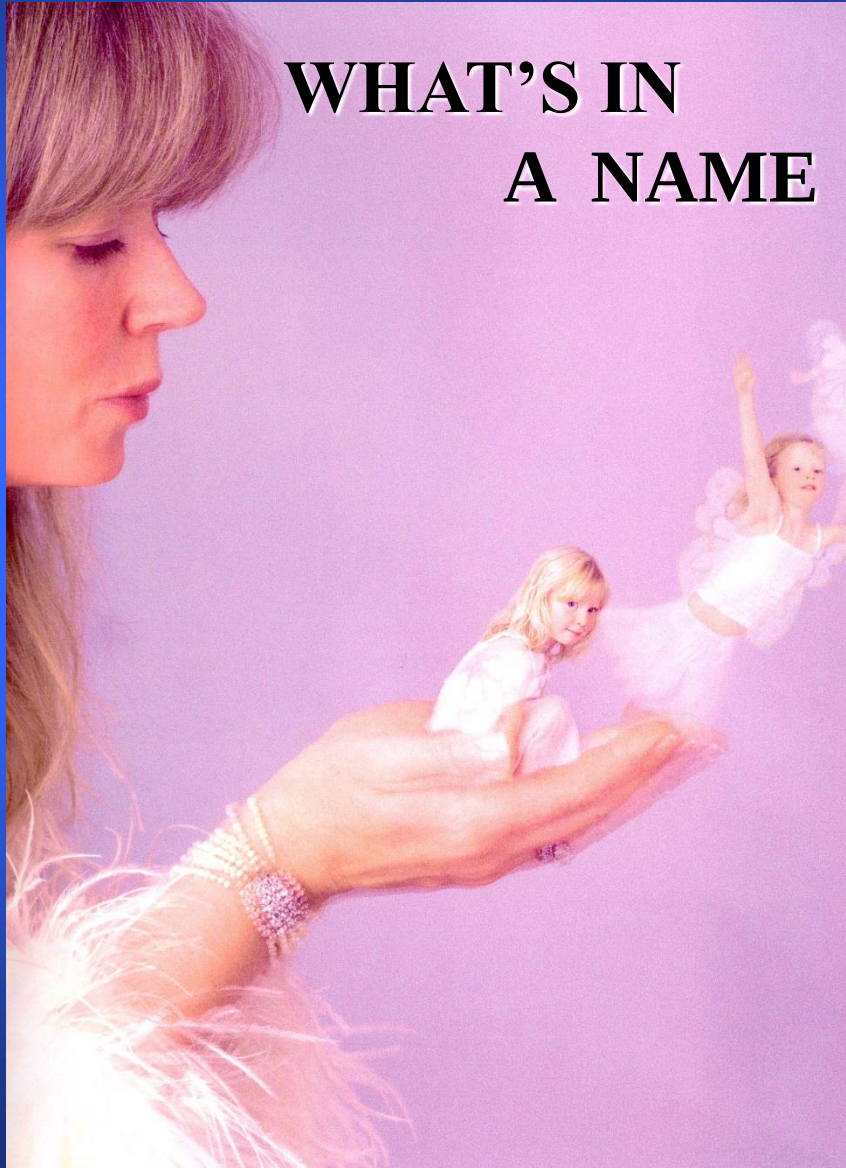


WHAT'S IN A NAME



WHEN IMAGING TODAY SHOWS EVERYTHING?

MICHAEL RIGBY
ROYAL BROMPTON HOSPITAL



ATRIOVENTRICULAR SEPTAL DEFECT

Definition

Generic Term for a Group of Anomalies With:

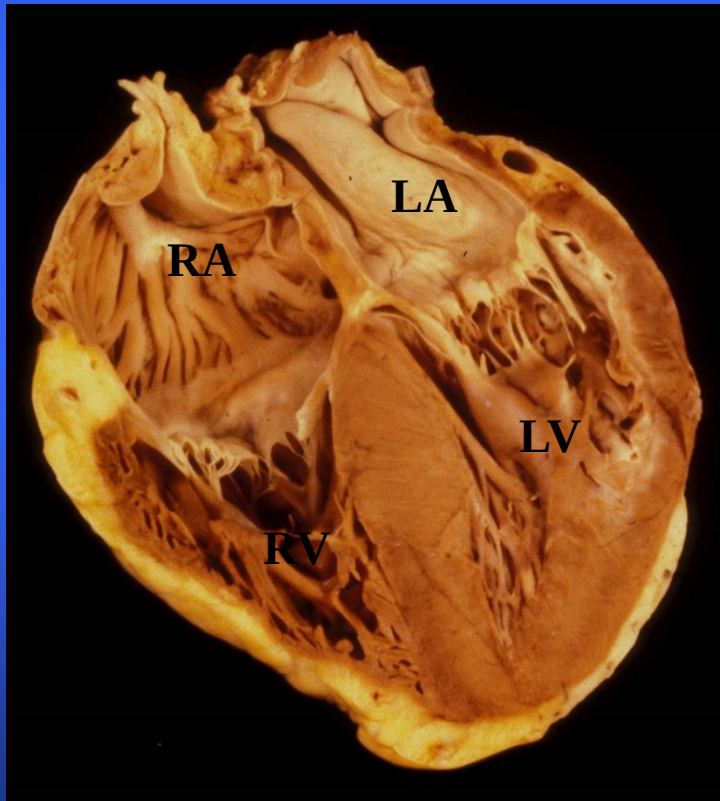
- *A Deficiency of AV Septal Structures*
- *Common Atrioventricular Junction*
- *Common Atrioventricular Valve*
- *Trileaflet Portion of Common Valve Within LV*

Broadly Classified:

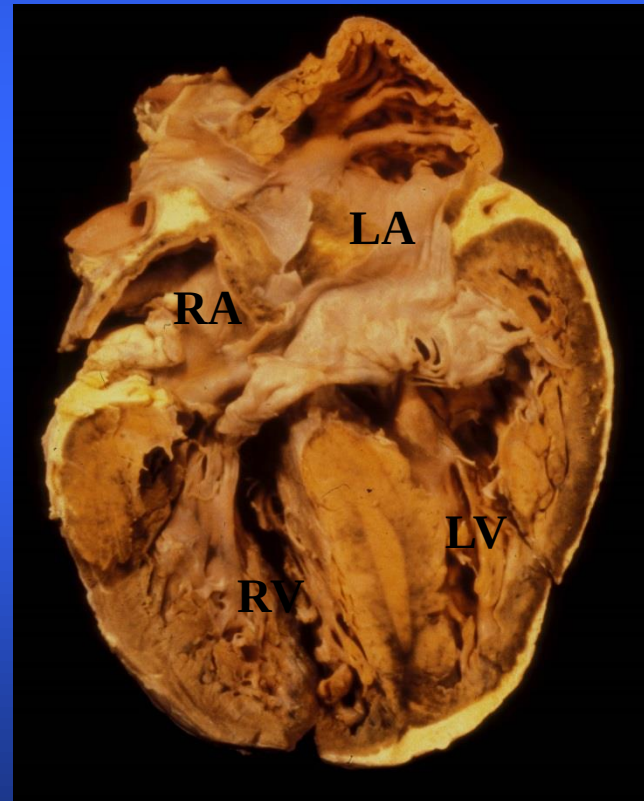
- *Common Valve Orifice*
- *Separate Rt and Lt Valve Orifices*

4 CHAMBER SECTIONS

NORMAL



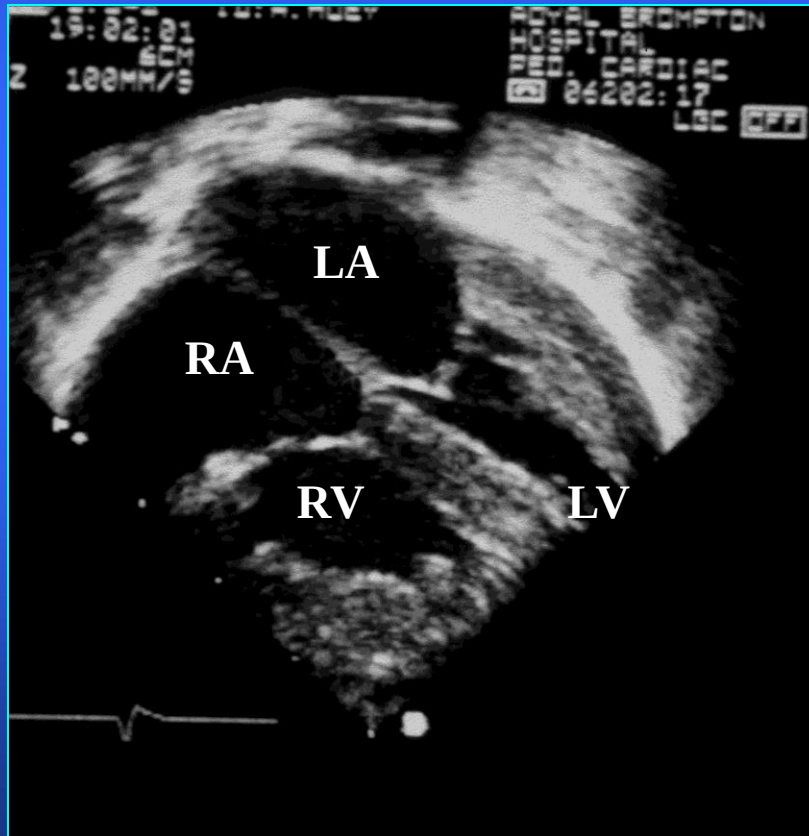
AVSD



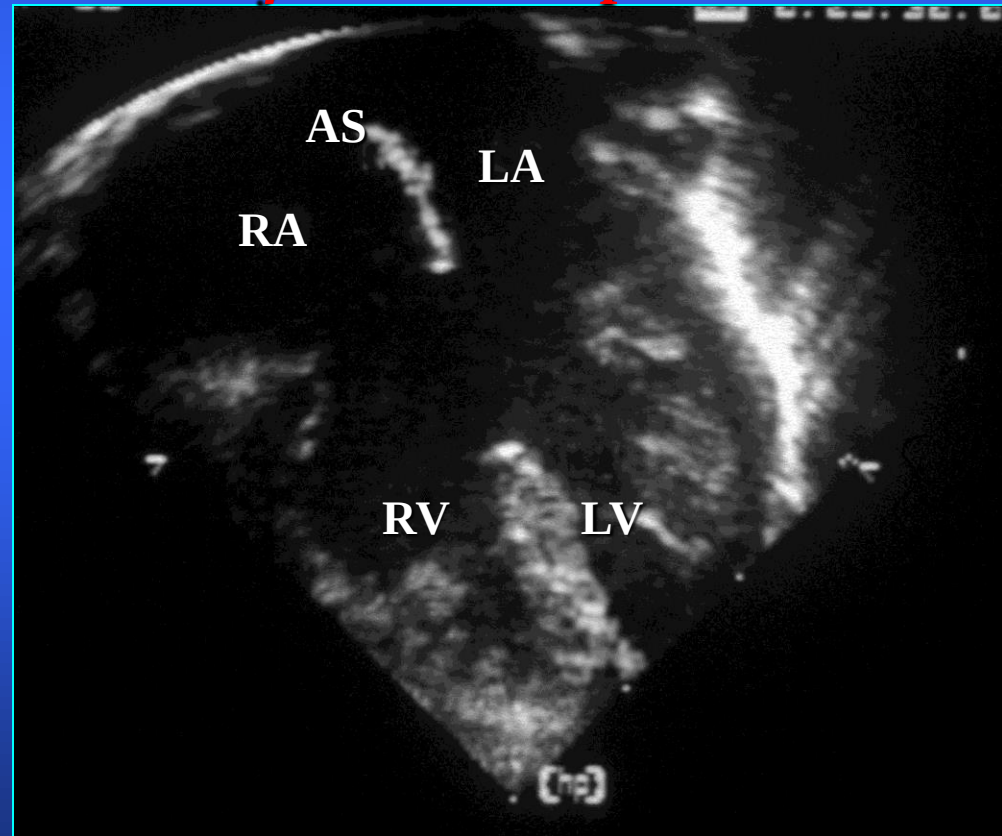
AVSD

DEFICIENT ATRIOVENTRICULAR SEPTUM

NORMAL

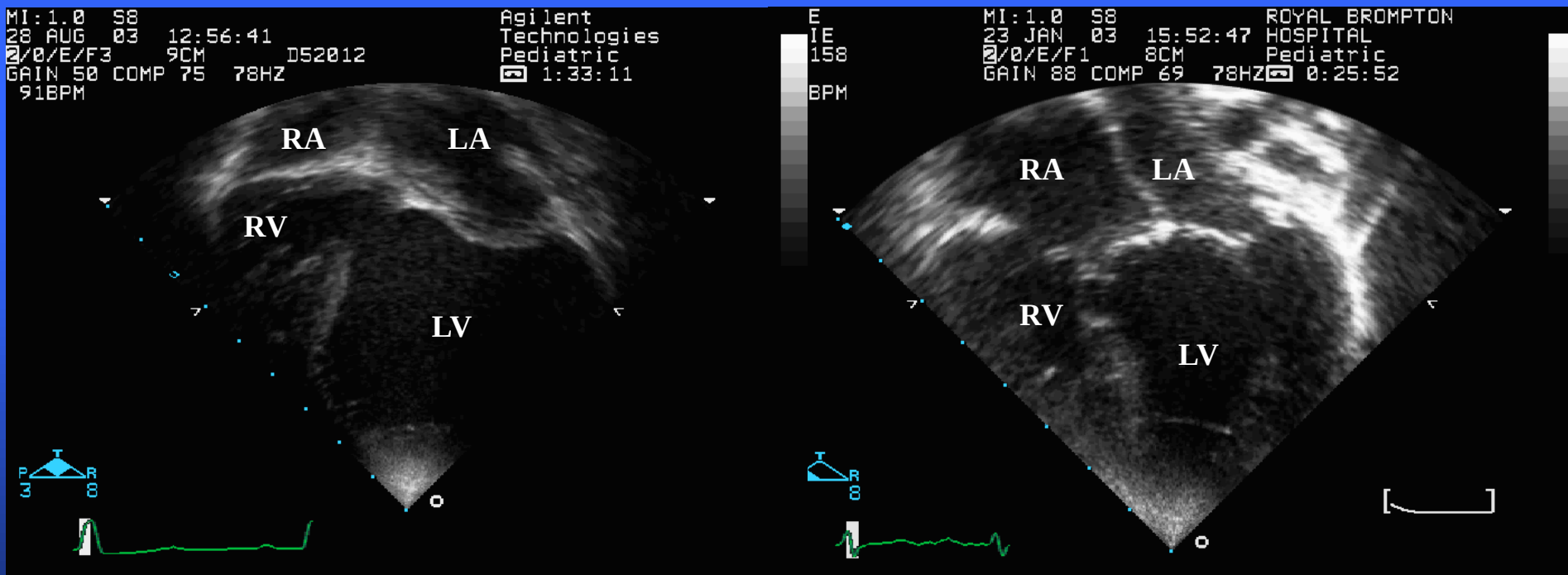


AVSD *Deficient AV Septal Structures*



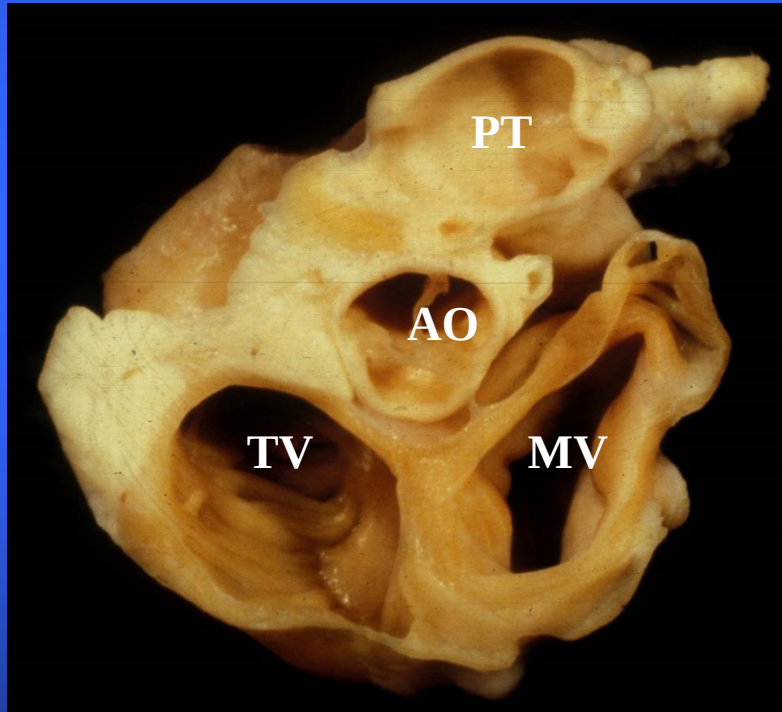
DEFICIENT ATRIOVENTRICULAR SEPTUM

ABSENT RT AV CONNECTION / DOUBLE INLET LV

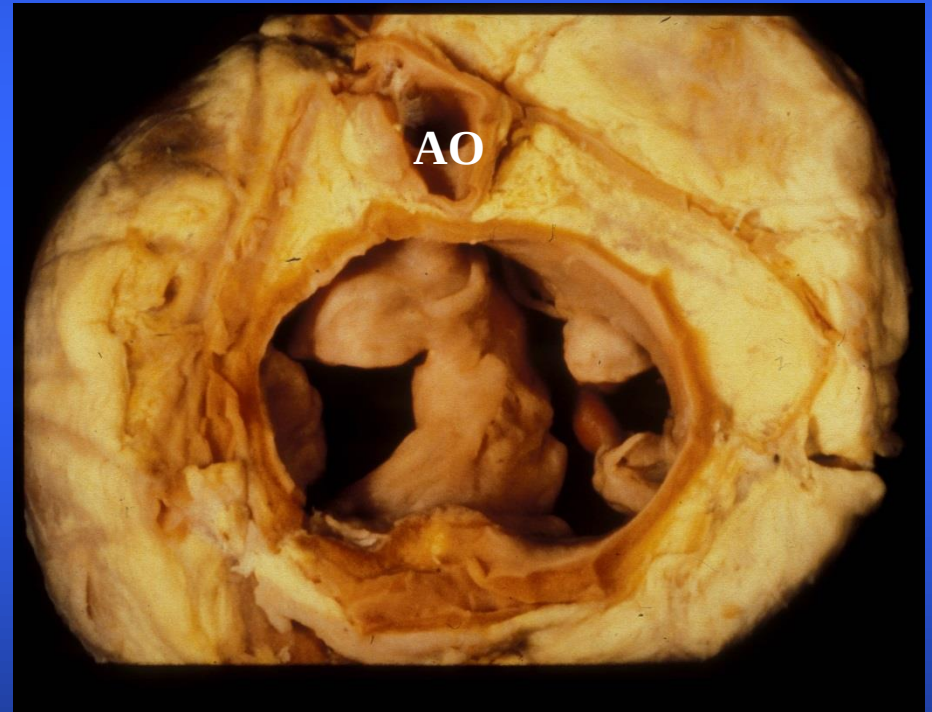


THE ATRIOVENTRICULAR JUNCTION

NORMAL



ATRIOVENTRICULAR SEPTAL DEFECT



AVSD

ATRIOVENTRICULAR JUNCTION

2 VALVE ORIFICES



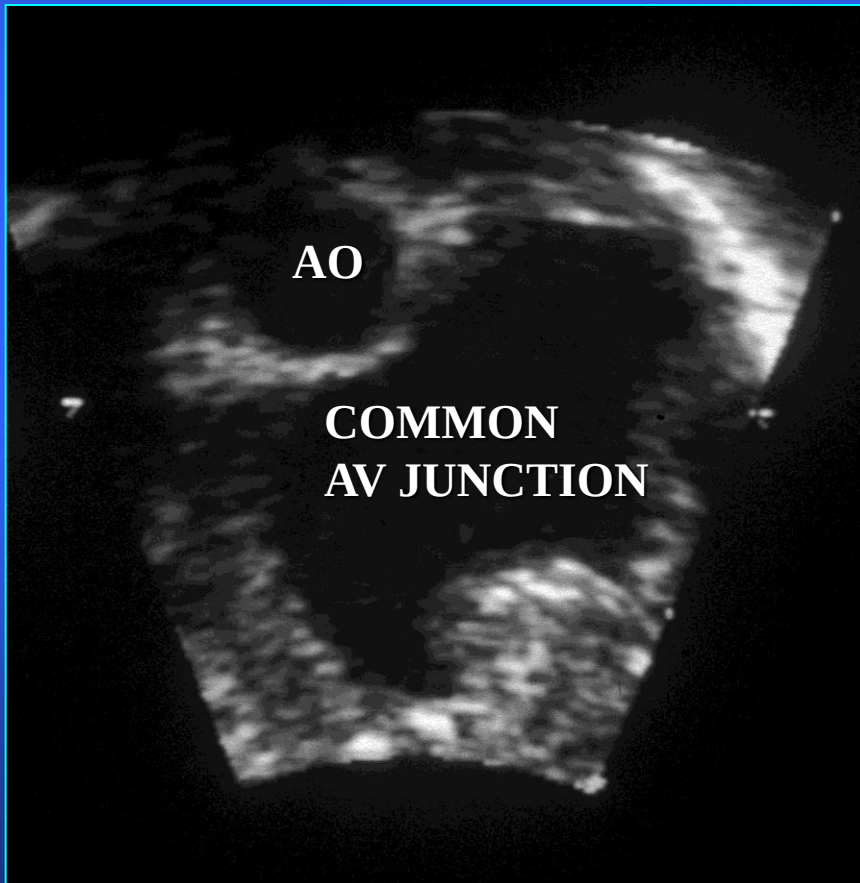
COMMON VALVE ORIFICE



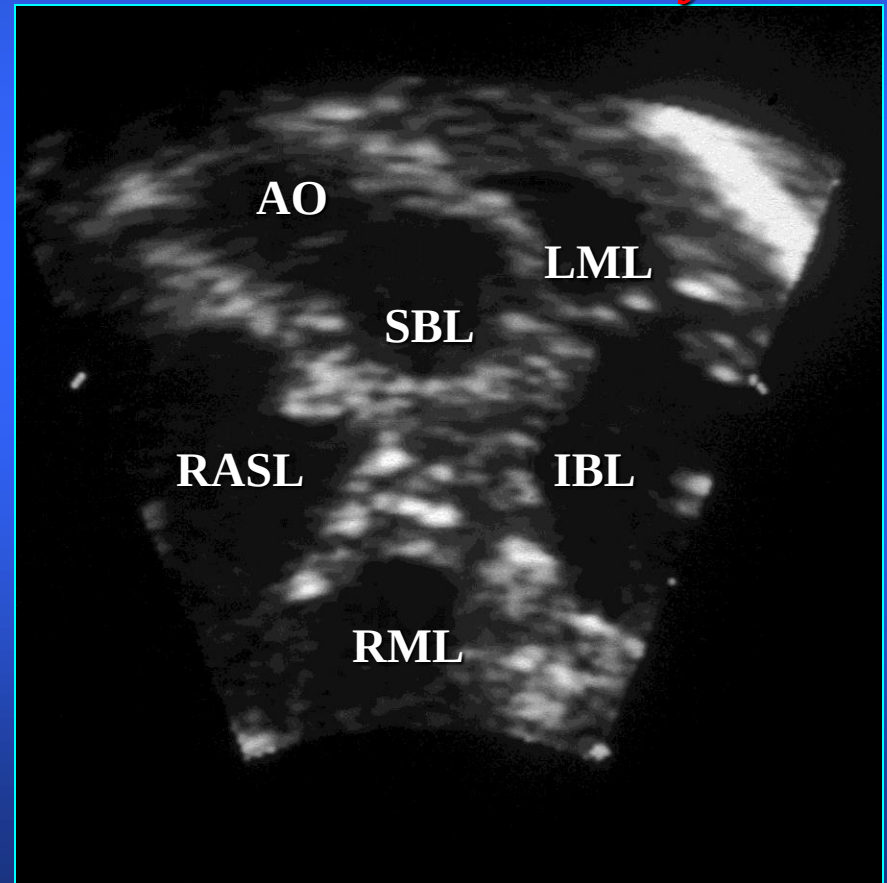
AVSD

COMMON AV JUNCTION AND VALVE

COMMON AV JUNCTION



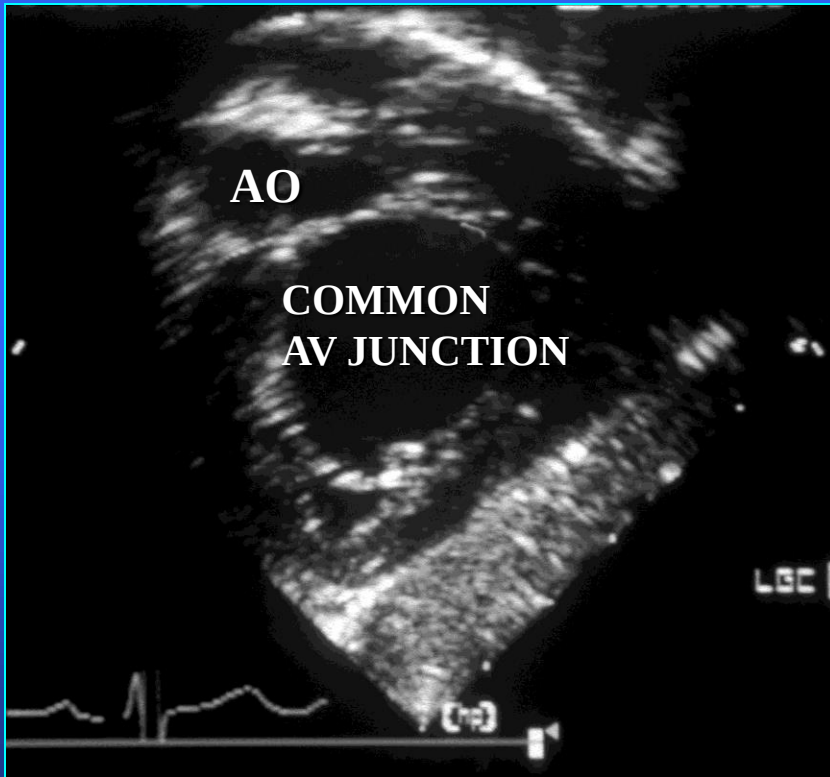
COMMON AV VALVE *Systole*



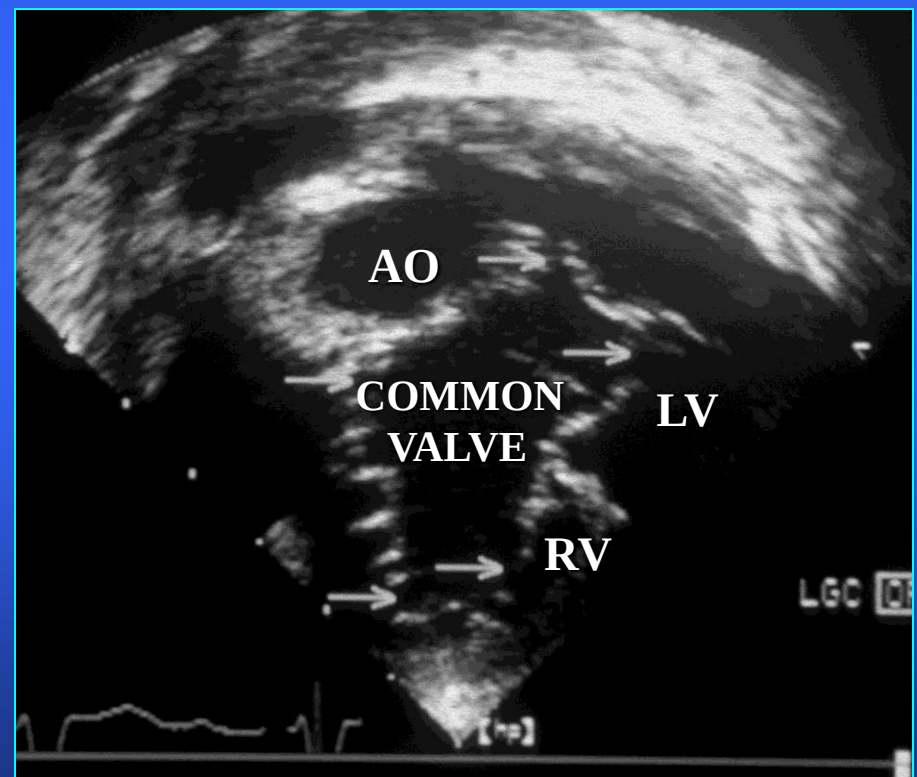
AVSD

COMMON AV JUNCTION AND VALVE

COMMON AV JUNCTION



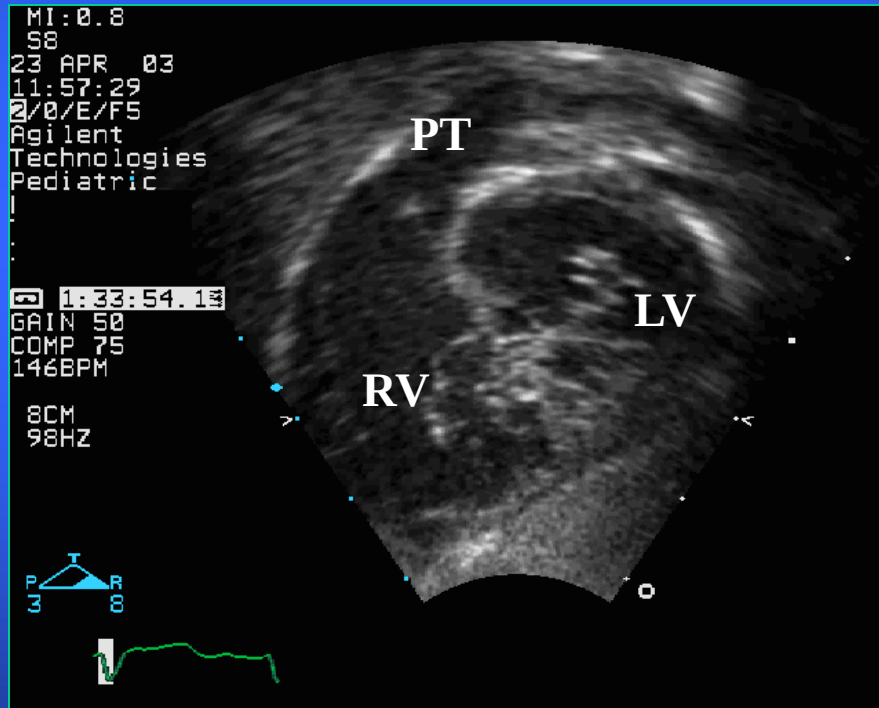
COMMON AV VALVE *Diastole*



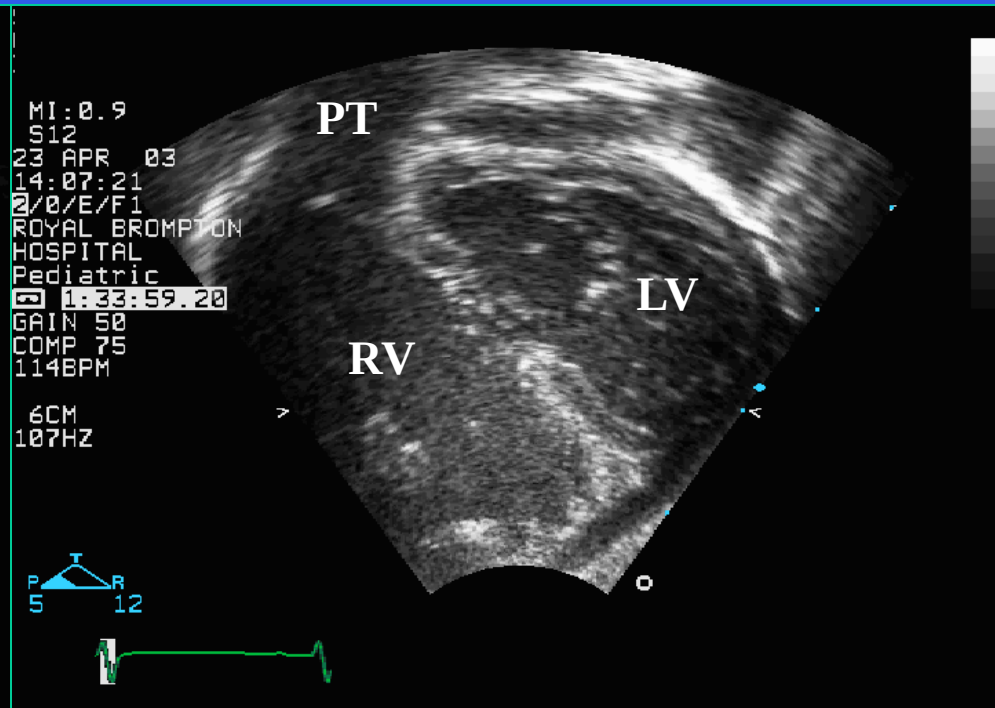
AVSD / COMMON AV VALVE

SUBCOSTAL SHORT AXIS SECTIONS

2 VALVE ORIFICES

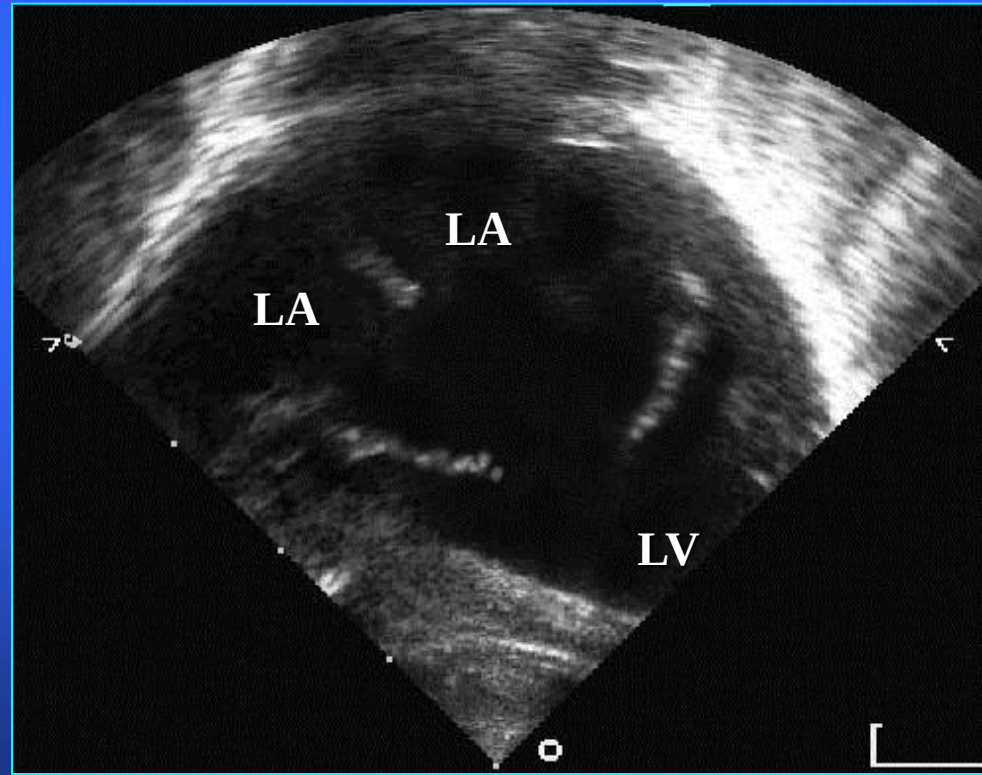
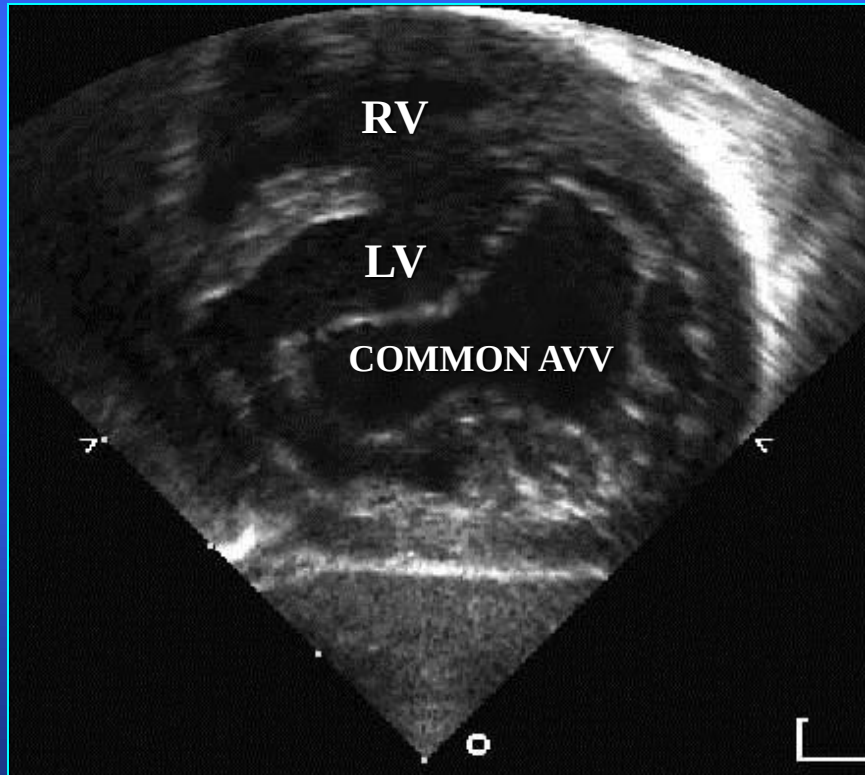


COMMON VALVE ORIFICE



***COMMON AV VALVE/COMMON JUNCTION
AND
DEFICIENT ATRIOVENTRICULAR SEPTUM***

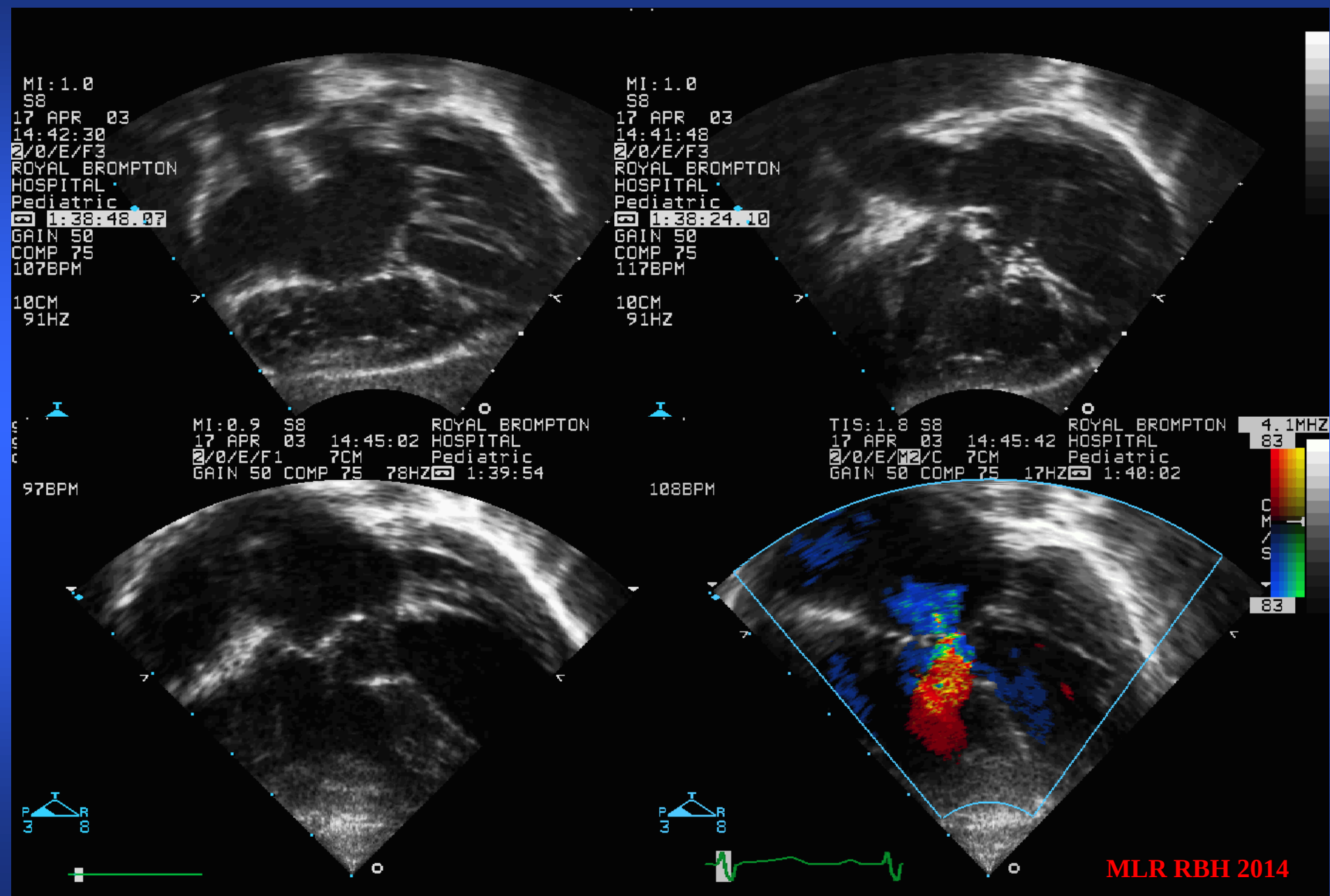
DOUBLE INLET LEFT VENTRICLE



WHY DO WE NEED NAMES?

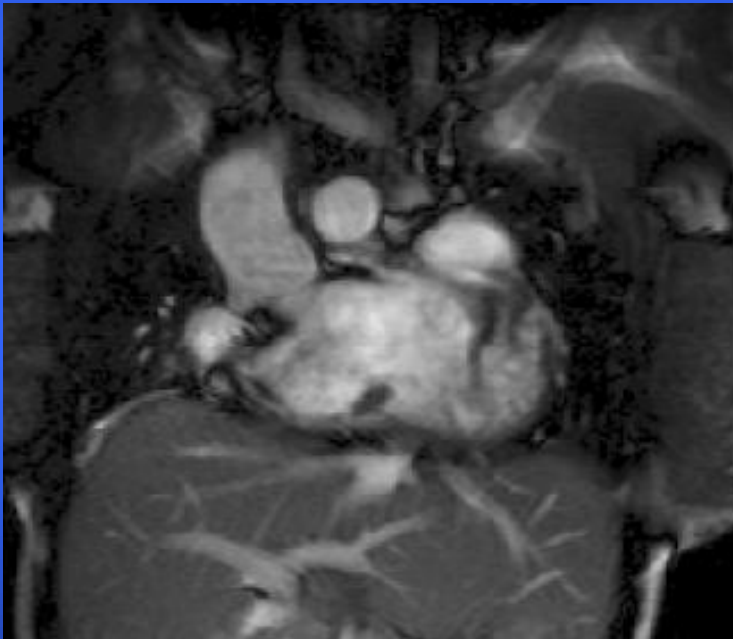
- *‘SHORT HAND’ FOR COMMUNICATION*
- *RESEARCH*
- *AUDIT*
- *TEACHING*

AVSD WITH COMMON VALVE ORIFICE



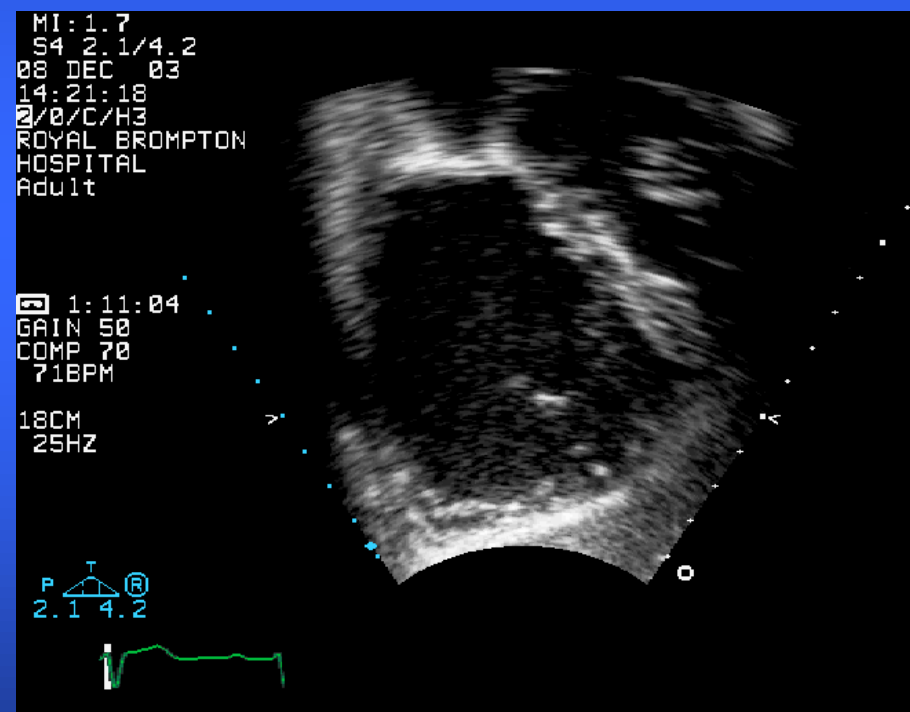
ATRIOVENTRICULAR SEPTAL DEFECT

COMMON VALVE ORIFICE

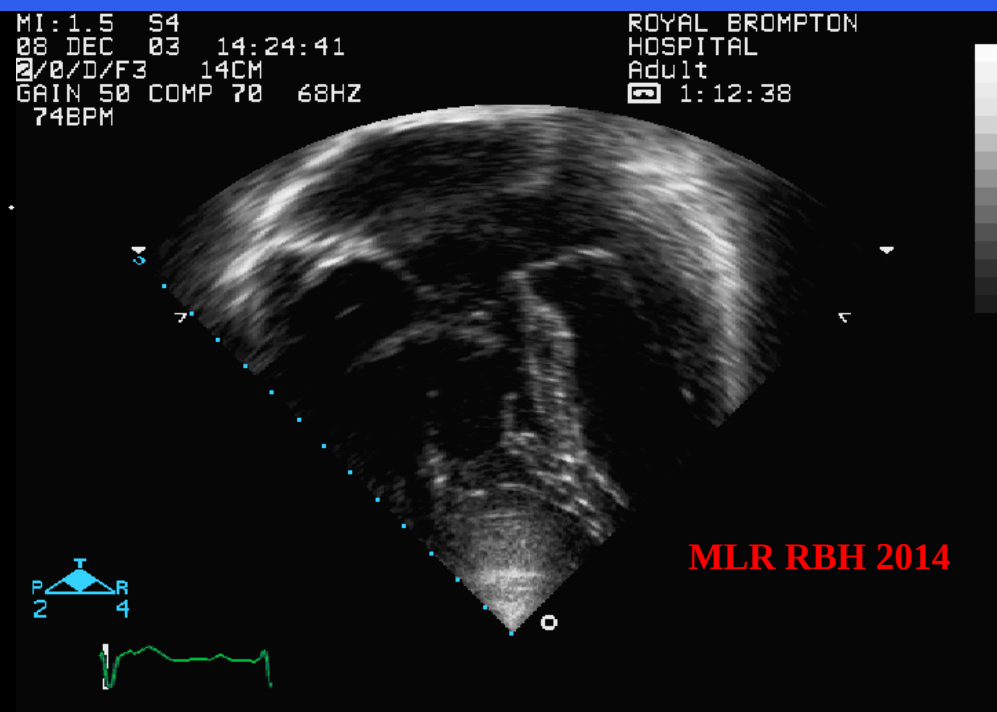


AVSD WITH 2 VALVE ORIFICES

SHORT AXIS



4 CHAMBER



AVSD WITH 2 VALVE ORIFICES

CLASSIFICATION

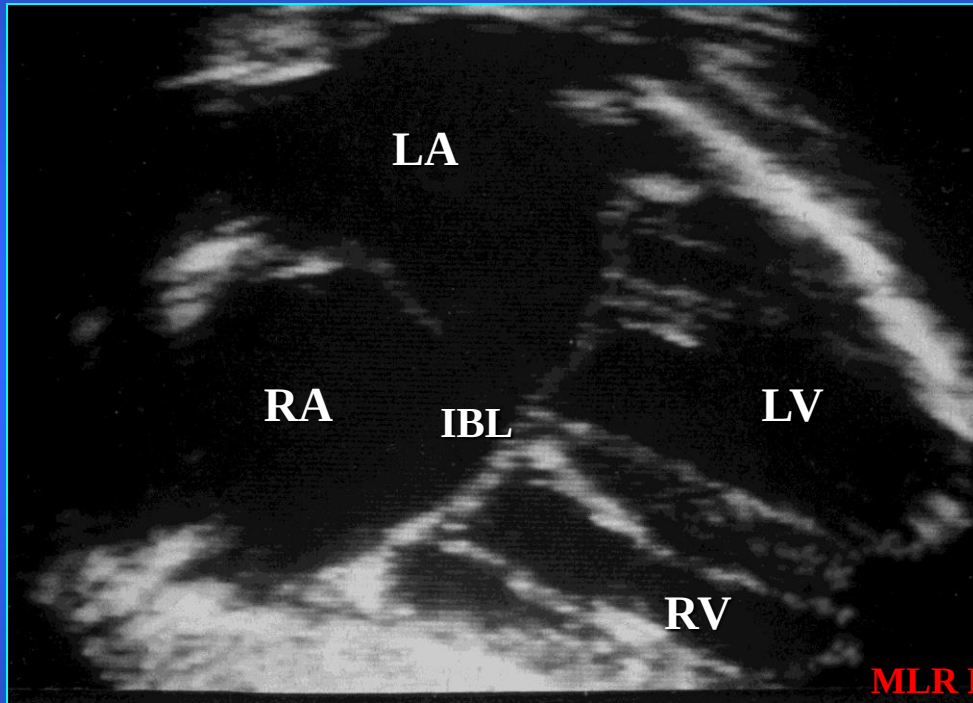
- *Isolated Primum Defect ('PRIMUM ASD')*
- *Isolated Ventricular Component*
- *Atrial and Ventricular Components*
- *Intact Ventricular Structures*

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AVSD WITH 2 VALVE ORIFICES

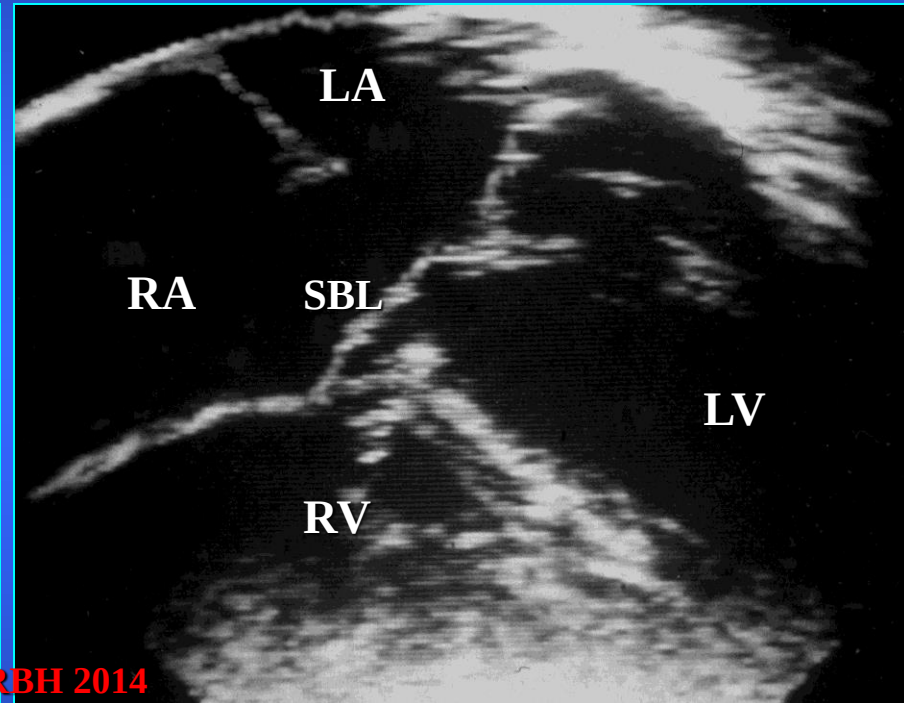
ISOLATED PRIMUM DEFECT

SUBCOSTAL 4 CHAMBER



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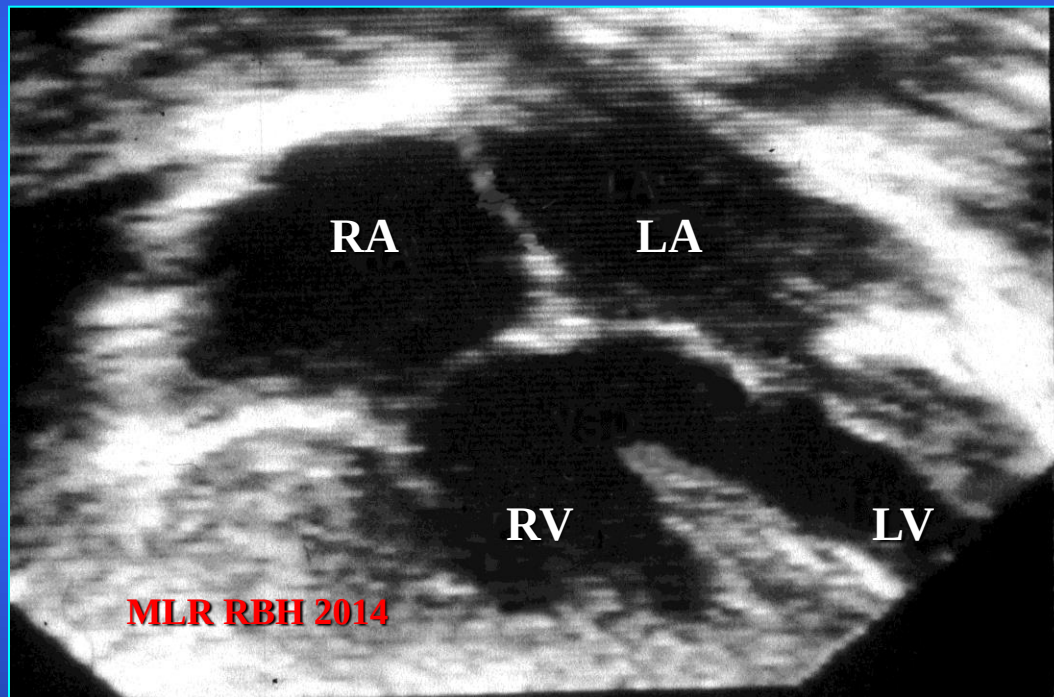
PARASTERNAL 4 CHAMBER



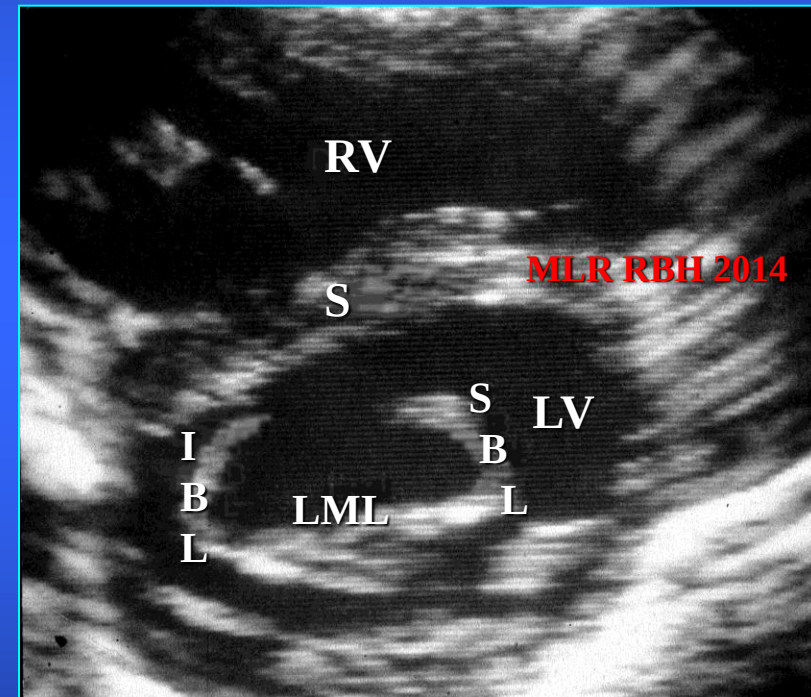
AVSD WITH 2 VALVE ORIFICES

ISOLATED VENTRICULAR COMPONENT

PARASTERNAL 4 CHAMBER

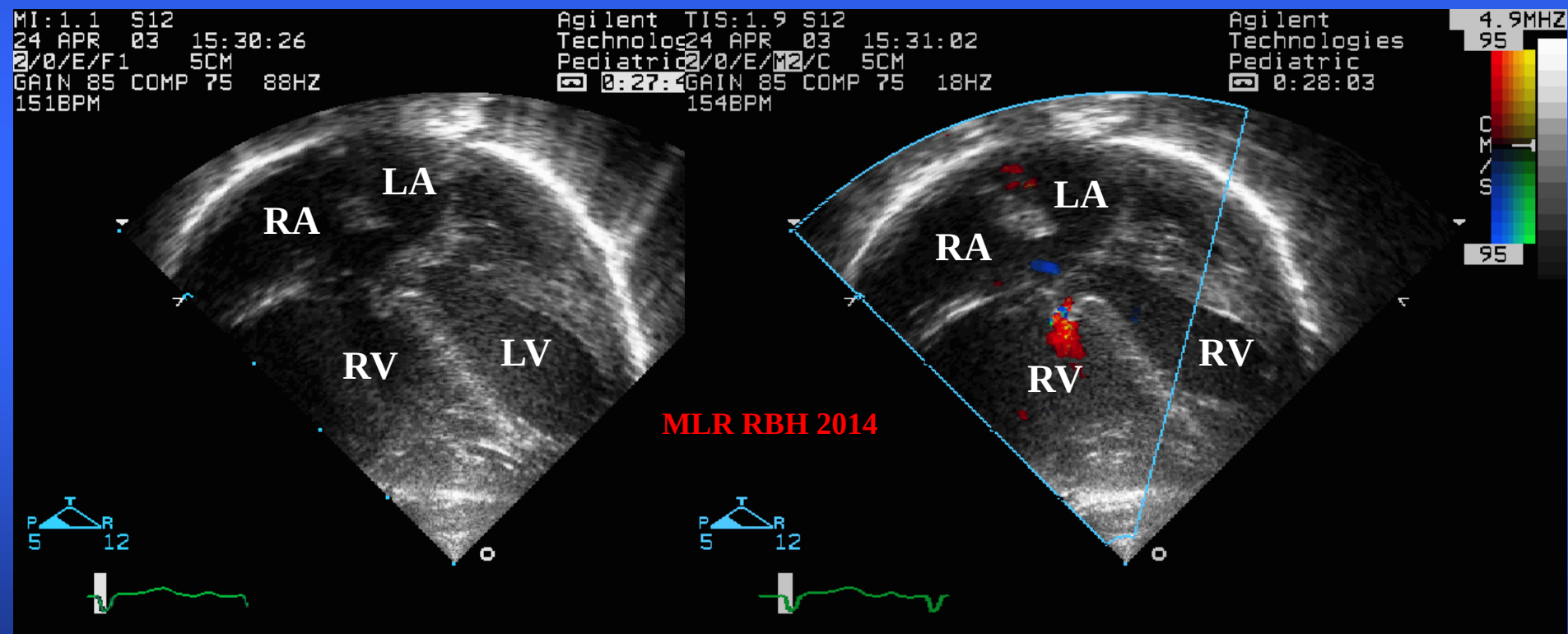


PARASTERNAL SHORT AXIS



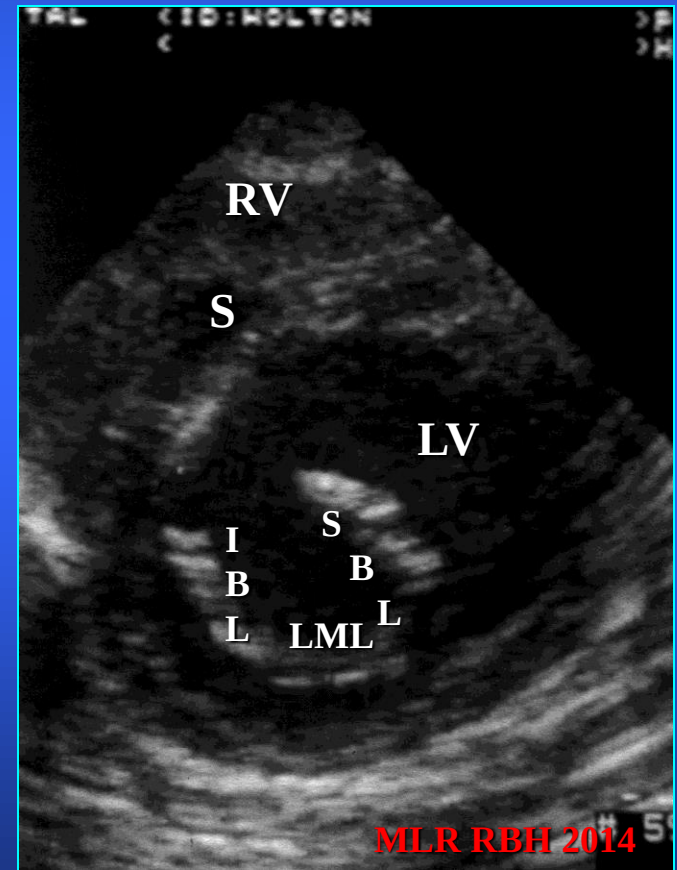
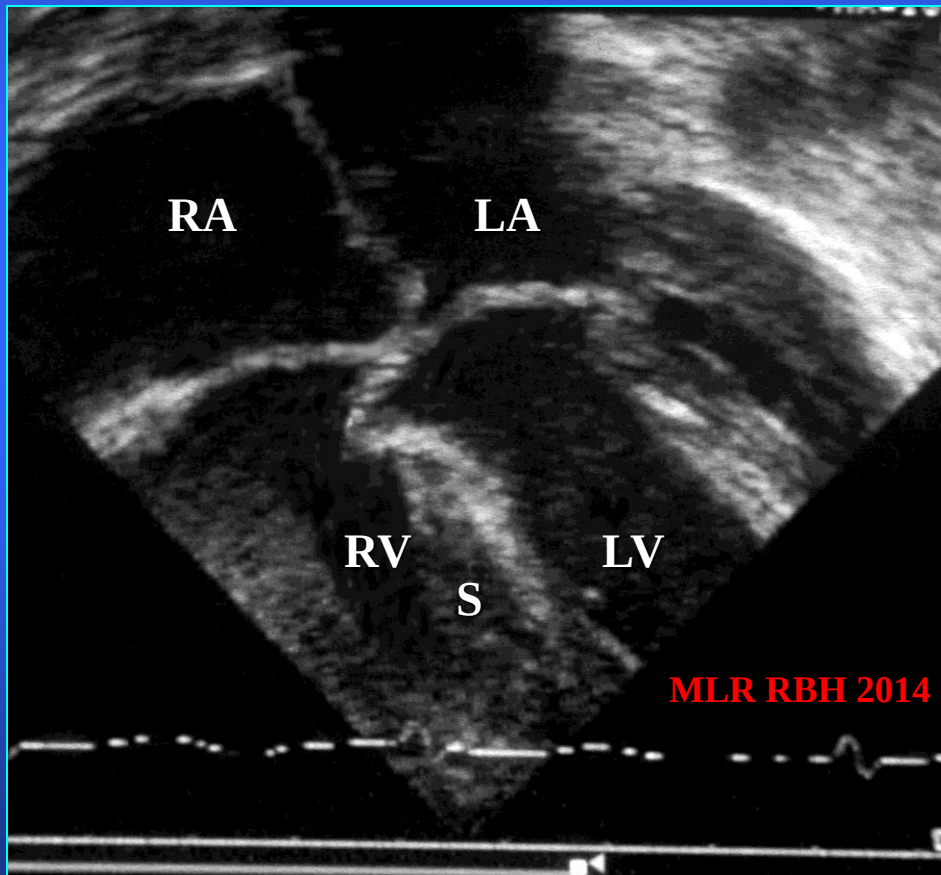
AVSD WITH 2 VALVE ORIFICES

ATRIAL / VENTRICULAR COMPONENTS



AVSD WITH 2 VALVE ORIFICES

INTACT SEPTAL STRUCTURES



WHAT'S IN A NAME?

- *NAMES ALONE MAY BE INSUFFICIENT*
- *QUALIFYING DESCRIPTIONS ARE NEEDED*

ATRIOVENTRICULAR SEPTAL DEFECTS

VARIATIONS/ASSOCIATED ANOMALIES

- **COMMON ATRIUM**
- **DOUBLE OUTLET RIGHT or LEFT ATRIUM**
- **DOUBLE 'ACCESSORY' VALVE ORIFICE**
- **AV VALVE REGURGITATION**
- **LEFT VENTRICULAR INFLOW OBSTRUCTION**
- **LEFT or RIGHT VENTRICULAR DOMINANCE**
- **LEFT VENTRICULAR OUTFLOW OBSTRUCTION**

- **LEFT or RIGHT ATRIAL ISOMERISM**
- **TAPVC**
- **MUSCULAR VSD**
- **TETRALOGY OF FALLOT/DORV/'TRUNCUS'**

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ISOLATED PRIMUM DEFECT

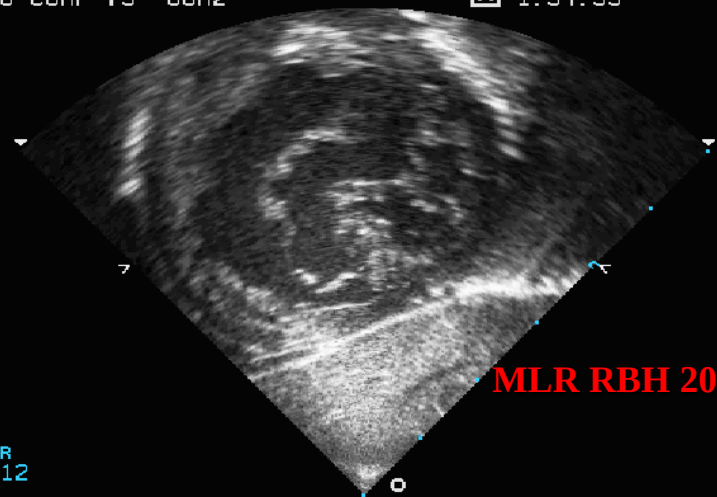
REGURGITANT VALVE



AVSD WITH TETRALOGY OF FALLOT

MI:1.1 S12
15 DEC 03 13:05:19
2/0/E/F2 6CM
GAIN 88 COMP 75 88HZ
112BPM

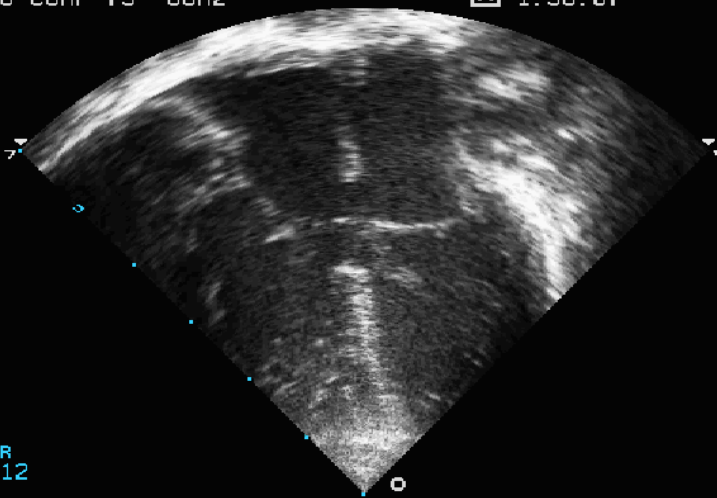
ROYAL BROMPTON
HOSPITAL
Pediatric
1:54:53



MLR RBH 2014

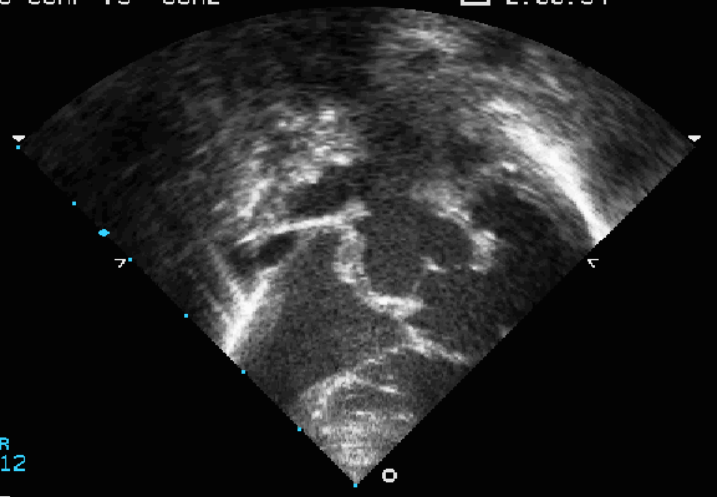
MI:1.6 S12
15 DEC 03 13:09:48
2/0/E/F2 6CM
GAIN 88 COMP 75 88HZ
119BPM

ROYAL BROMPTON
HOSPITAL
Pediatric
1:56:07



MI:1.1 S12
15 DEC 03 13:24:16
2/0/E/F2 6CM
GAIN 86 COMP 73 88HZ
121BPM

ROYAL BROMPTON
HOSPITAL
Pediatric
2:00:54

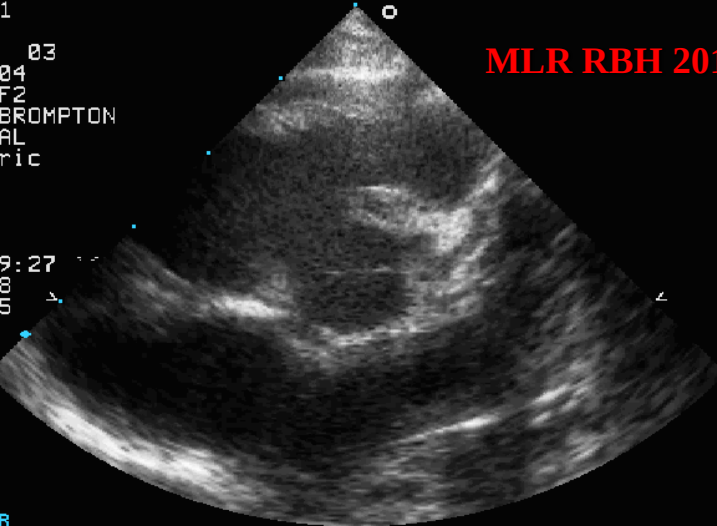


MLR RBH 2014

MI:1.1 S12
15 DEC 03 13:17:04
2/0/E/F2
ROYAL BROMPTON
HOSPITAL
Pediatric

1:59:27
GAIN 88
COMP 75
127BPM

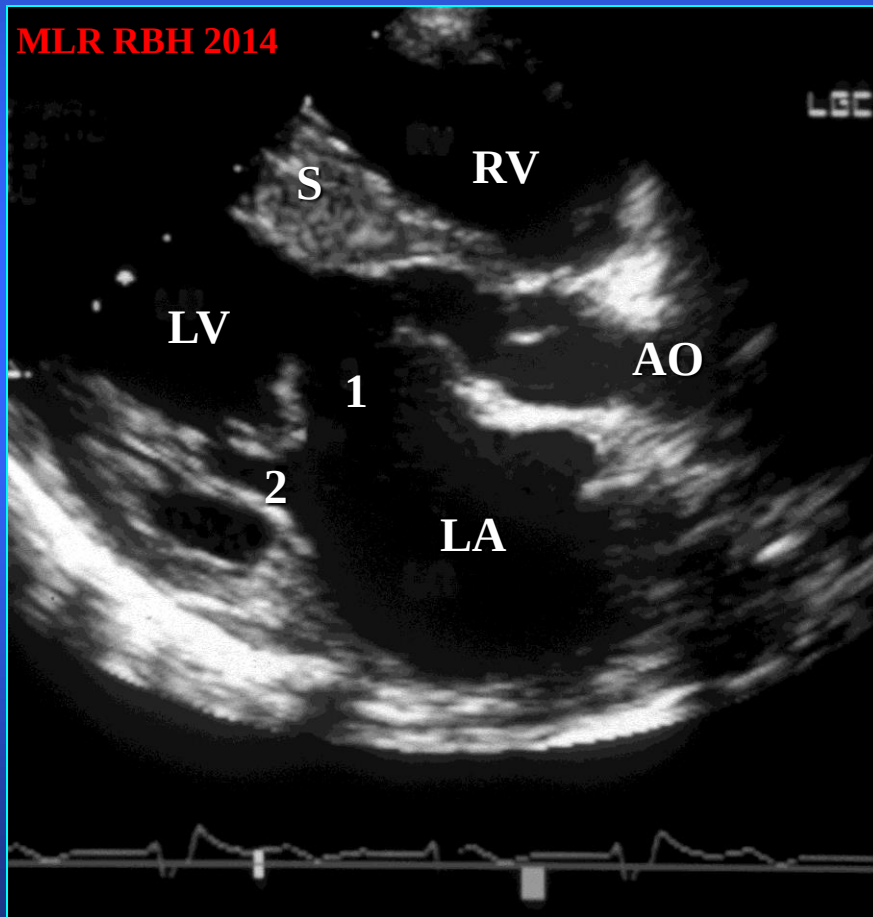
SCM
88HZ



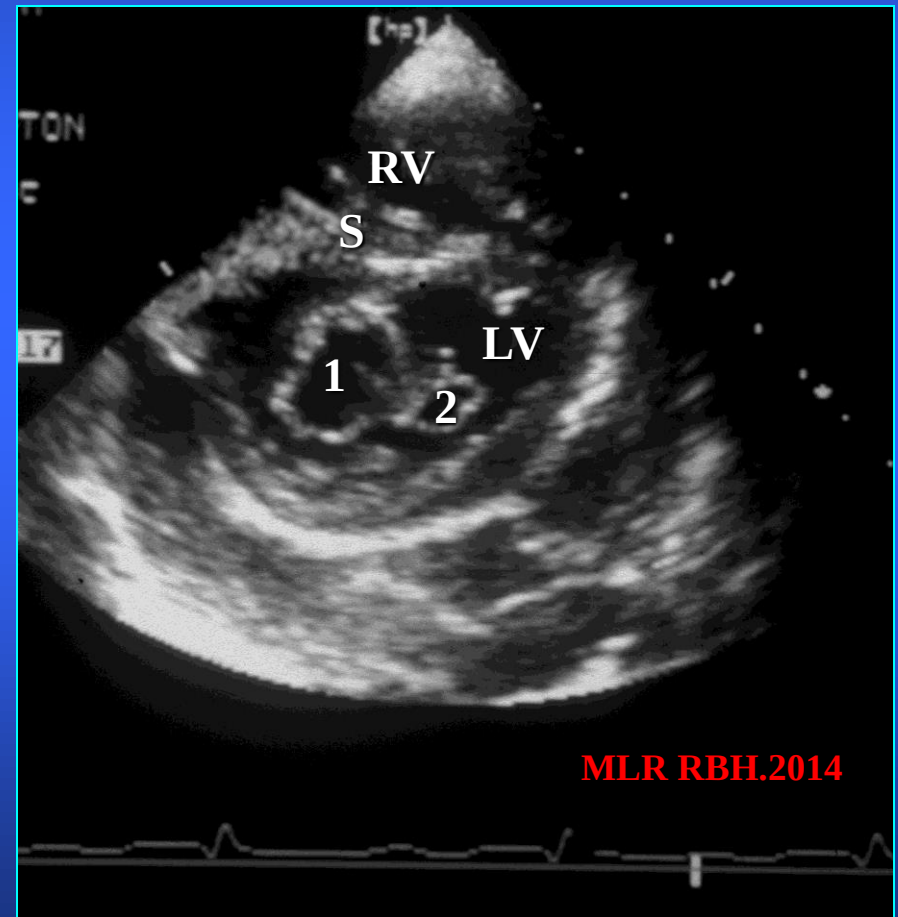
AVSD / VARIATIONS

DOUBLE ORIFICE LEFT VENTRICULAR VALVE

PARASTERNAL LONG AXIS



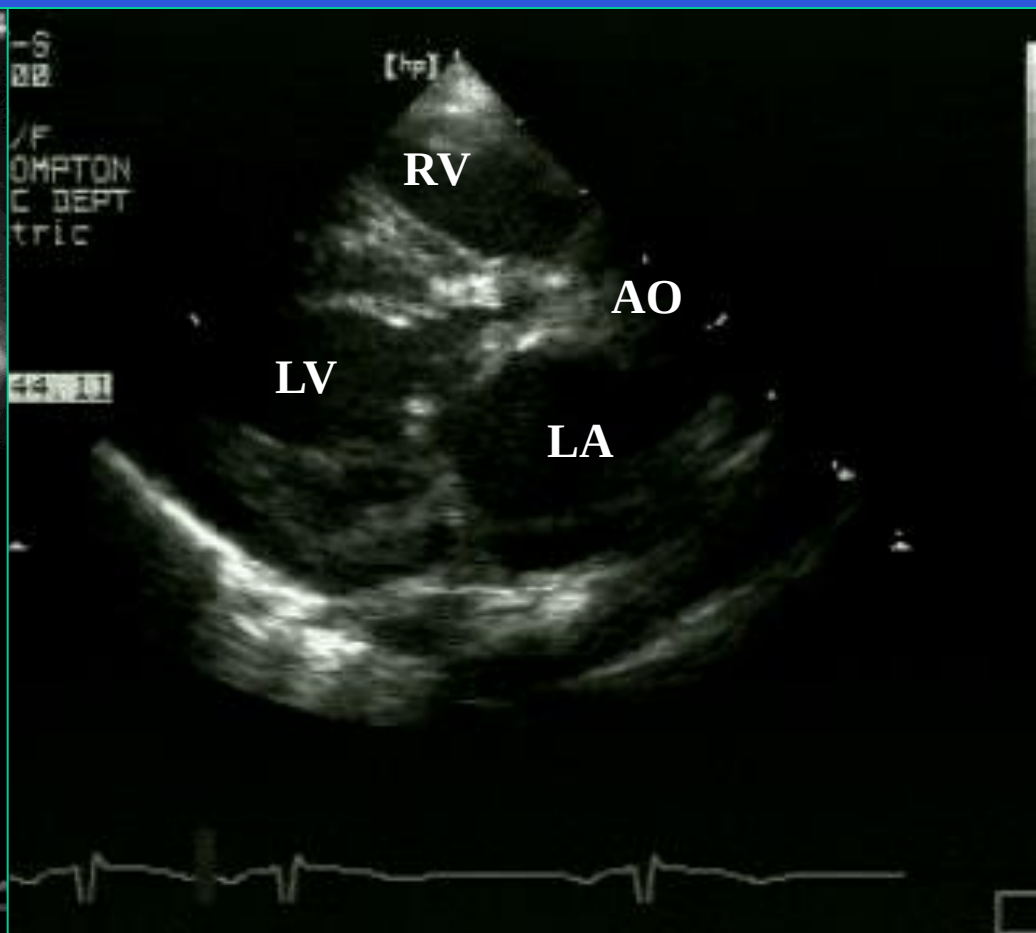
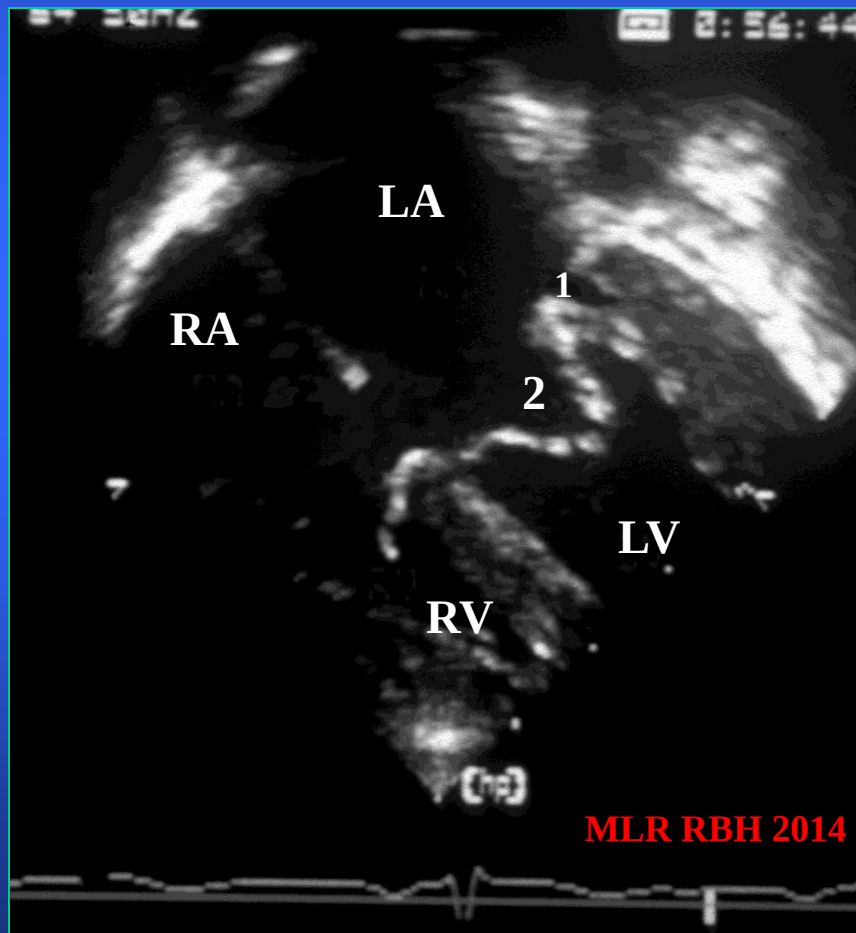
PARASTERNAL SHORT AXIS



AVSD / VARIATIONS

LV INFLOW OBSTRUCTION (DUAL ORIFICE)

WITH SUBAORTIC STENOSIS

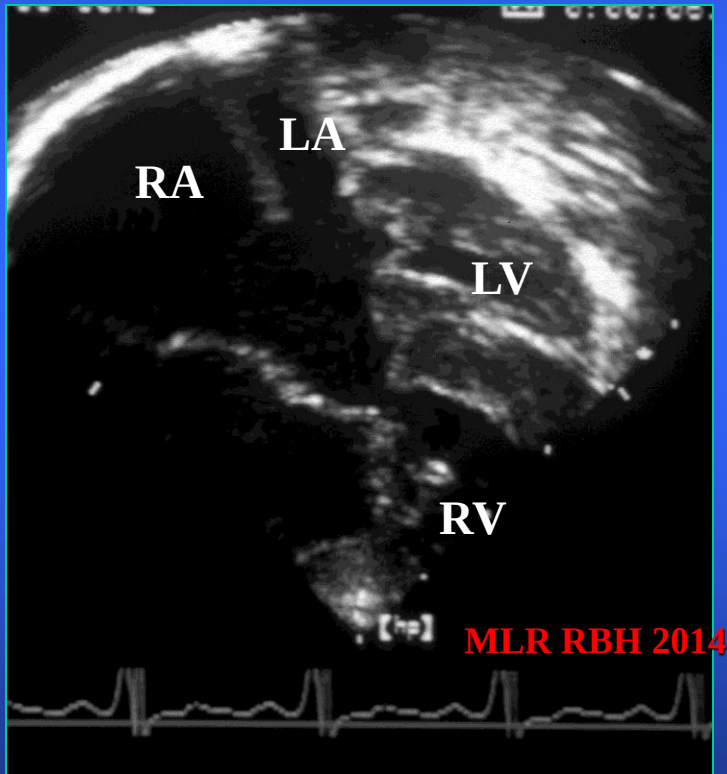


MLR RBH 2014

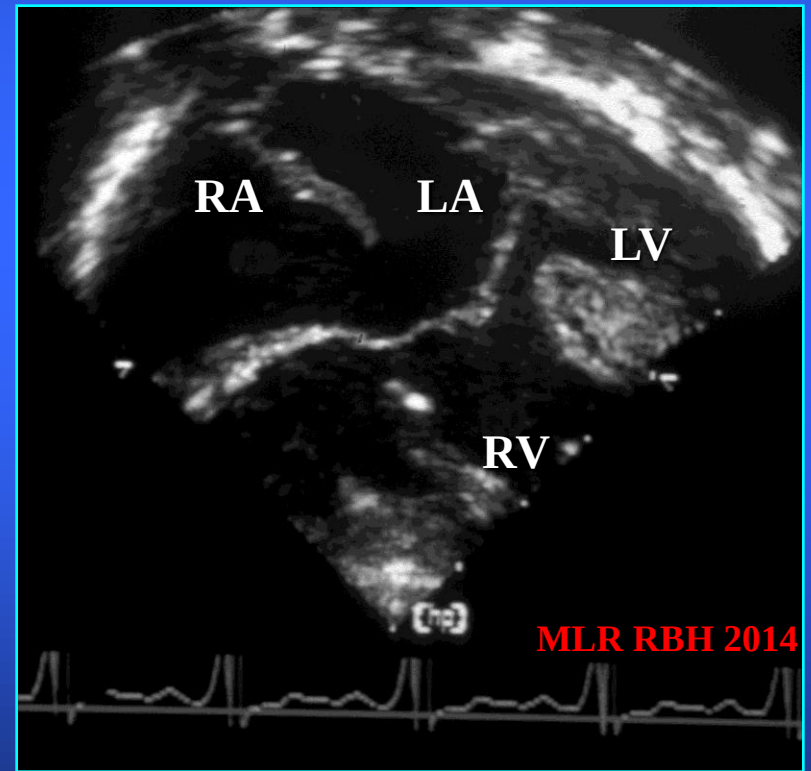
AVSD / VARIATIONS

VENTRICULAR INBALANCE

**LV INFLOW OBSTRUCTION
2 VALVE ORIFICES**

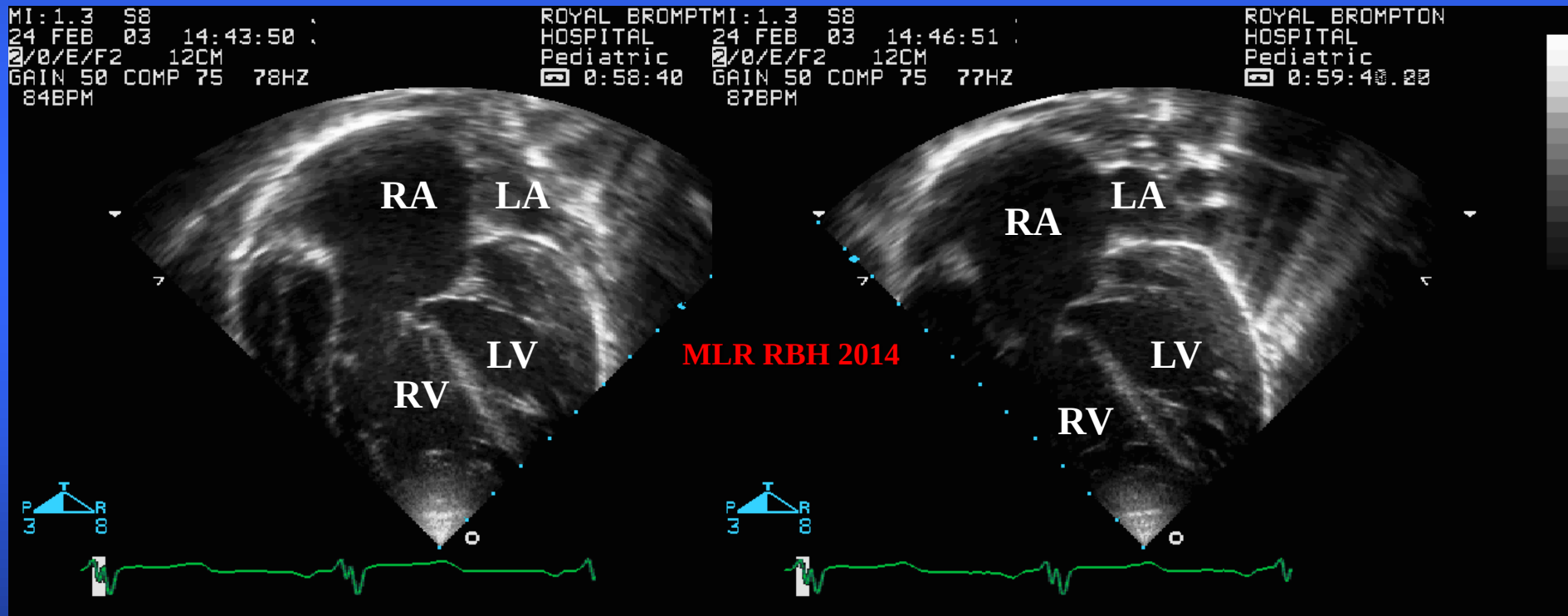


COMMON VALVE ORIFICE

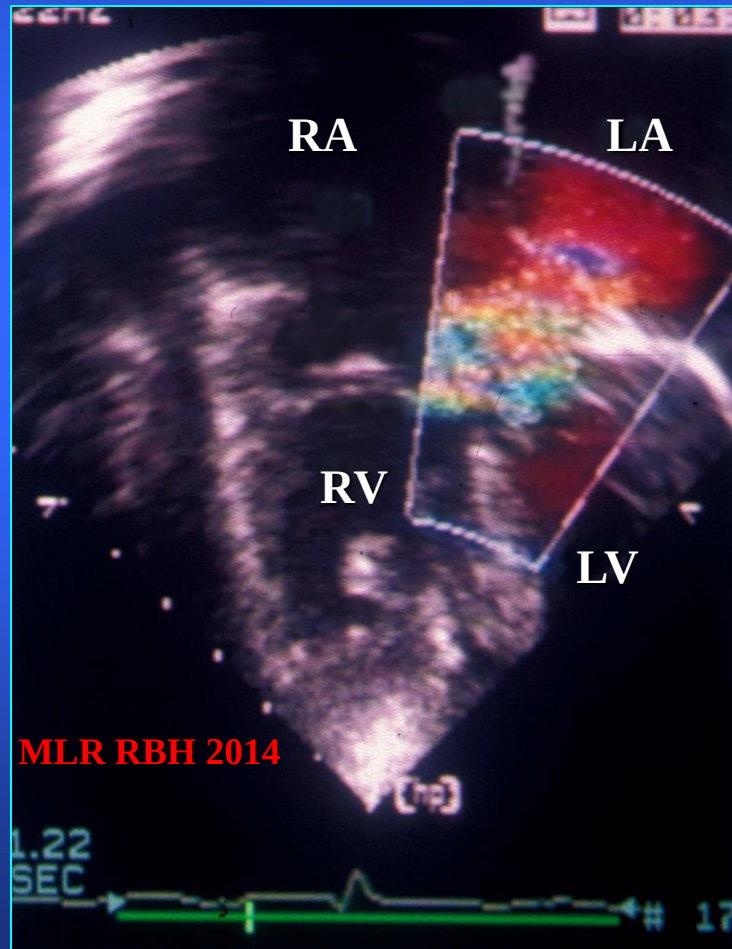
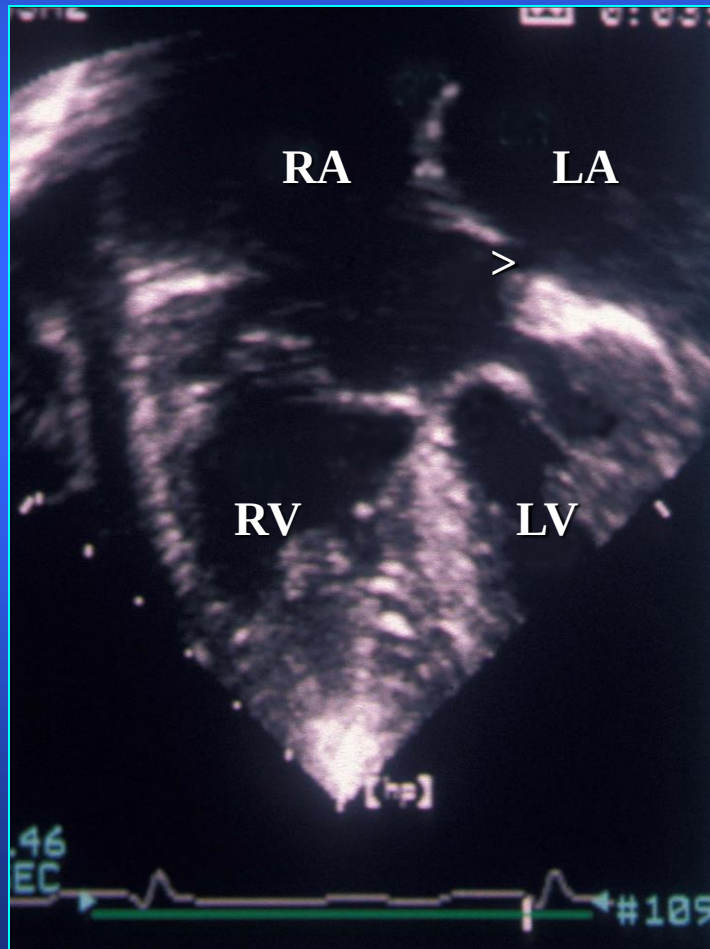


AVSD / VARIATIONS

DOUBLE OUTLET RIGHT ATRIUM



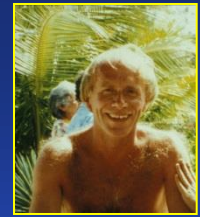
AVSD / VARIATIONS
DOUBLE OUTLET RIGHT ATRIUM
RESTRICTIVE PRIMUM DEFECT



MLR RBH 2014

AVSD

FINAL COMMENTS



- *All Characterised by a Common Atrioventricular Junction and Valve*
- *Common Orifice or Two Valve Orifices*
- *AV Valve Regurgitation Found Frequently*
- *Variations Such As:*

LV inflow Obstruction
Additional Valve Orifice
LV Outflow Obstruction
Tetralogy of Fallot
Ventricular Inbalance
Double Outlet Atrium



MLR RBH 2014

MAY OCCUR WITH COMMON OR 2 VALVE ORIFICES!

WHAT'S IN A NAME?

FINAL COMMENTS

- ***NAMES ARE LESS IMPORTANT:***

PRECISE IMAGES

DIGITAL TRANSMISSION

- ***BUT WORDS, NAMES and LANGUAGE:***

ARE ESSENTIAL FOR:

COMMUNICATION

TEACHING

AUDIT/RESEARCH

- ***GOOD IMAGING IS THE KEY TO EVERYTHING!***