A CASE OF CARDIAC EMERGENCY (RSOV)



CHIEF - Dr C .DHARMARAJ ASST - DR.A.TAMILVANAN Dr.A.PRABHU

PRESENTOR - Dr.S.KADHIRVEL

- 22Y /F presented with
- c/o breathlessness for 2 days aggravated by minimal exertion (NYHA gr- III)
- h/o palpitation for 2 days
- h/o giddiness with loss of consiousness –on and off (regaining conciousness within 5-10mins)
- h/o headache on/off
- H/o mild upper abdominal pain with decreased appetite – 3 days

- No h/o orthopnoea
- No h/o fever
- No h/o chest pain
- No h/o seizures
- No h/o blurring of vision
- No h/o recent trauma

Past history:

 Not a k/c/o DM/SHT/PTB/CAD/CHD/thyroid disorder

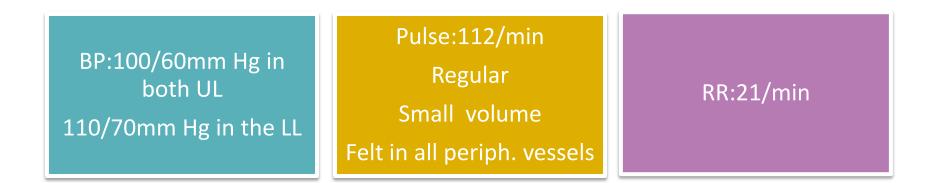
Personal history:

- Takes mixed diet
- Married 2 children
- LCB: 1.5yrs back (uneventful-both LSCS, PS done)
- Regular 3/28 cycles.
- LMP:1 day back, normal flow.

General examination

O/E Pt conscious Oriented Afebrile Pallor(+) No cyanosis/clubbing No pedal edema No generalised lymphadenopathy Hydration-fair Head nodding with each heart beat+





SPO2:97% with room air

TEMP: 98.6f Afebrile

Systemic examination

- **CVS:** JVP- elevated 3cms above the clavicle
- Apical Impulse : Left 5th ics in midclavicular line, hyperdynamic
- No dilated veins over the chest wall.
- Continuous thrill along the left sternal border
- Mitral area: s1s2 heard(muffled)
- Continuous murmur (grade V)heard along the left upper sternal border radiating all over the precordium.
- Aortic area : same murmur radiated
- Pulmonary area: loud P2 with ejection systolic murmur.

RS: Dyspnoeic , tachypnoeic BAE(+), NVBS+ basal crepts(+) P/A: soft ,BS(+) Minimal epigastric, right hypochondrial tenderness(+) No free fluid , no organomegaly **CNS:** NFND

ACUTE LV FAILURE/PULMONARY EDEMA/ANAEMIA

Investigations

CBC HB:8.8 TC:9700 ESR:4mm/hr PCV:31.2% PLAT:1.38LACS/CU.MM RBS:126 RFT: UREA-77 CREATININE-1.2 Na+ 135 K+ 3.2 Cl- 101 URINE ALBUMIN:Nil SUGAR:Nil DEPOSITS:0-2Pus cells

BT :2MINS 15SECS CT:5MINS 30 SECS

BLOOD GP:A +VE

HIV screening:NR

CK-MB-89.5U/L

LFT S.BILIRUBIN:0.9 SGOT:32 SGPT:36 ALP:76 S.PROTEINS:5.9 ALBUMIN:3.5 GLOBULIN:2.4

ECG

- Normal sinus rhythm
- Rate 125/min
- Sinus tachycardia
- No ST/T wave changes

CHEST X RAY



Cardiology opinion:screening echo done

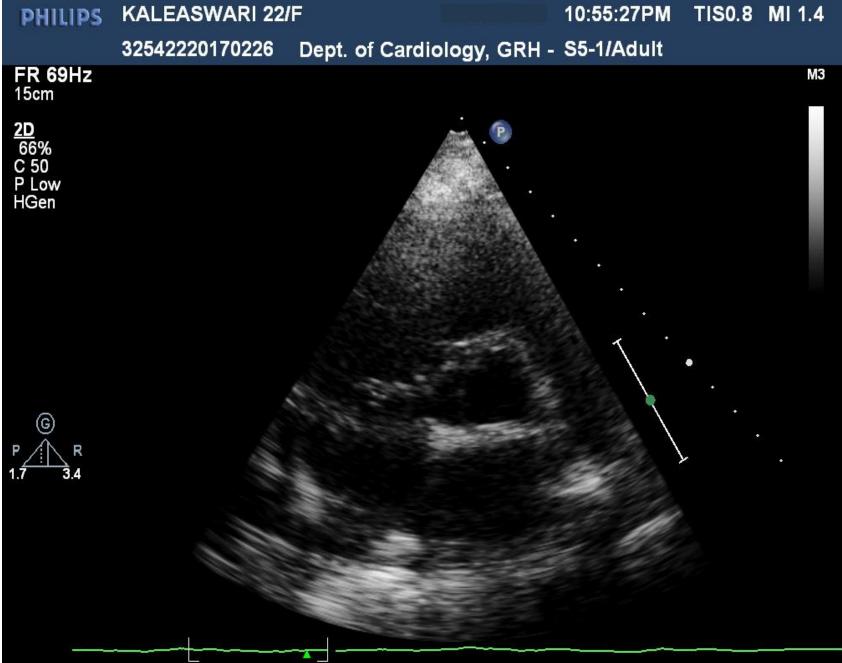
- Revealed RSOV into right atrium
- Advised to add T.ivabradine 5mg 1-0-1.
- Pt shifted to iccu

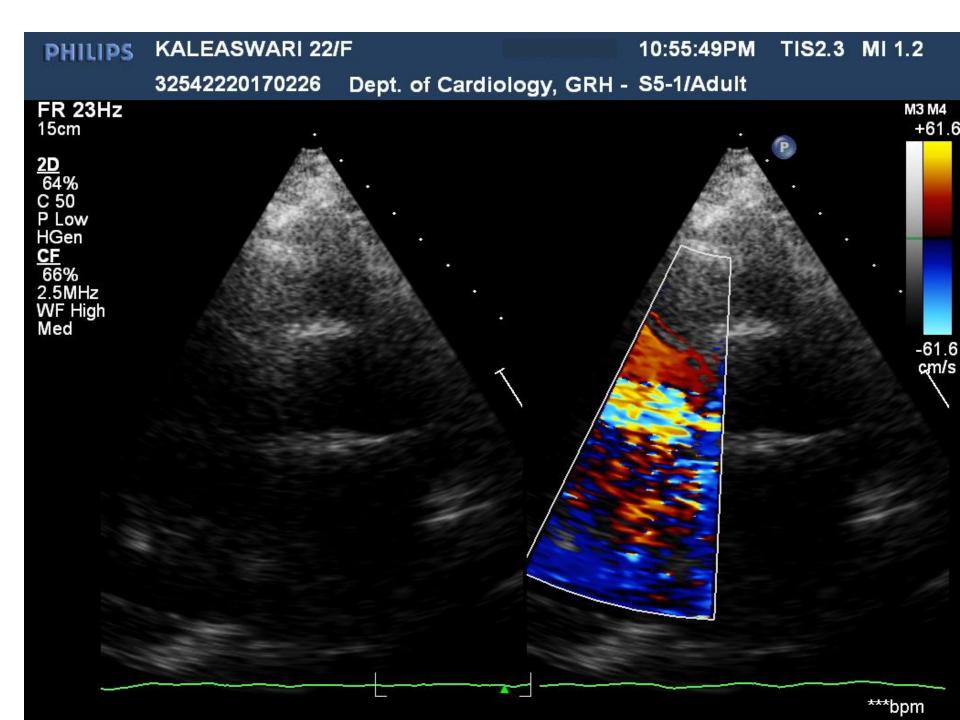
CTS OPINION:

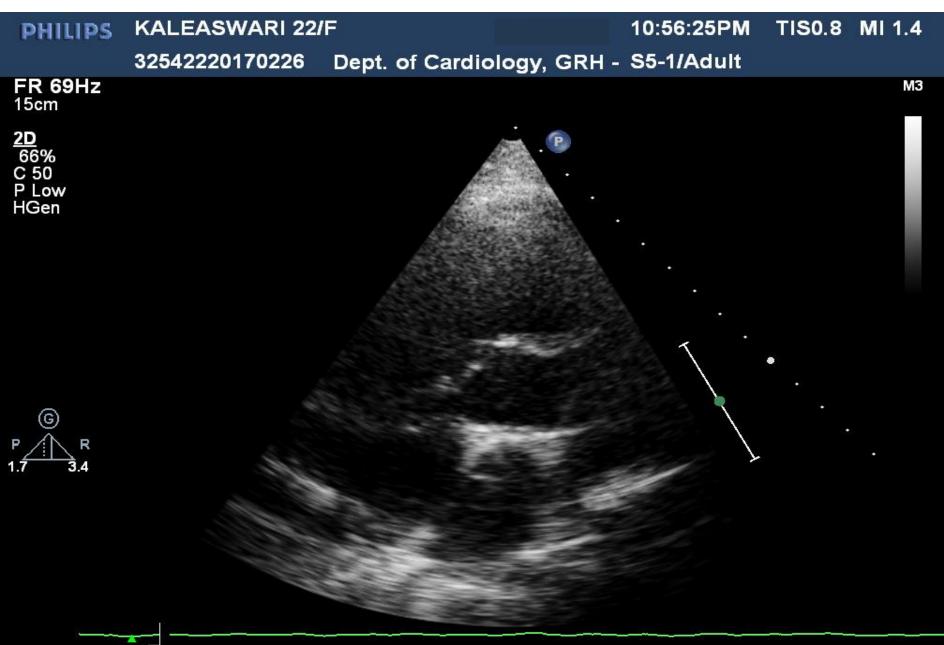
- Plan :surgical repair of rsov
- Control of heart failure and conservative measures until surgery.

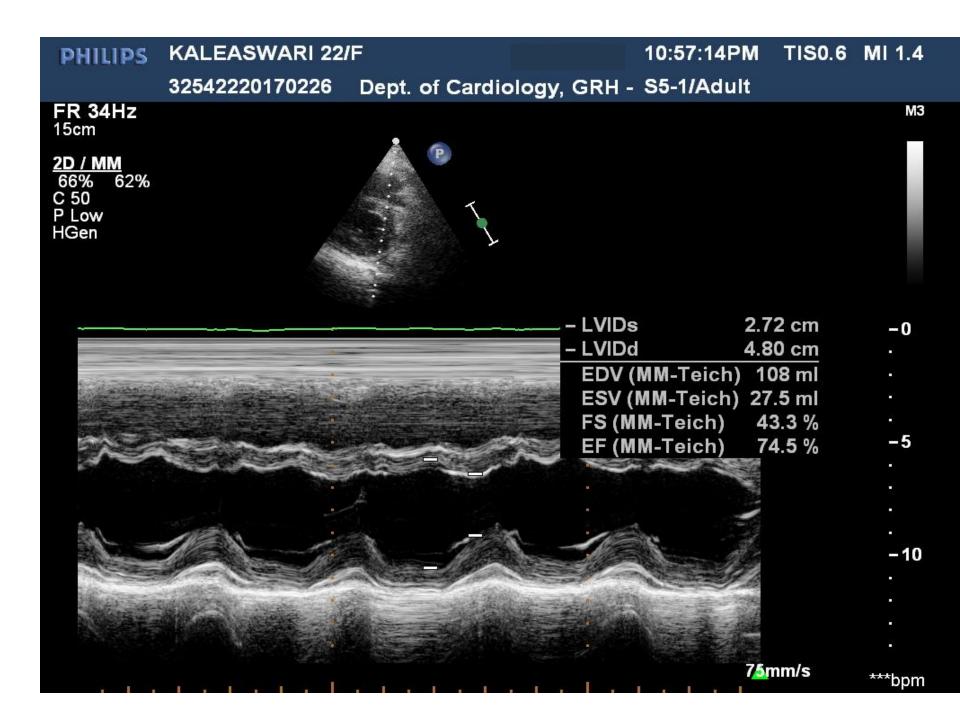
ECHOCARDIOGRAM

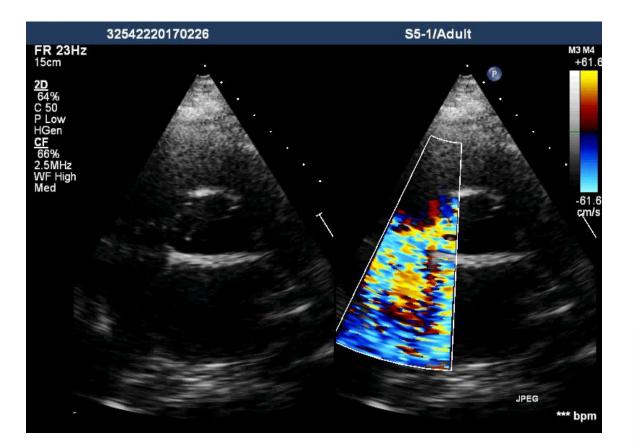
- SITUS SOLITUS
- LEVOCARDIA
- NORMALLY RELATED GREAT VESSELS
- RUPTURE SINUS OF VALSALVA INTO RT ATRIUM
 WITH NORMAL LV FUNCTION
- MODERATE PULMONARY HYPERTENSION
- LVID(d)-4.8
- LVID(s)-2.7
- LVEF-74%

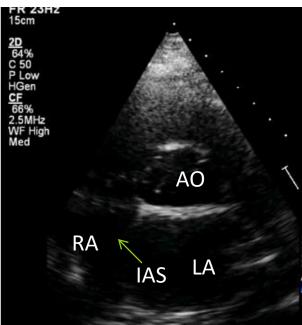


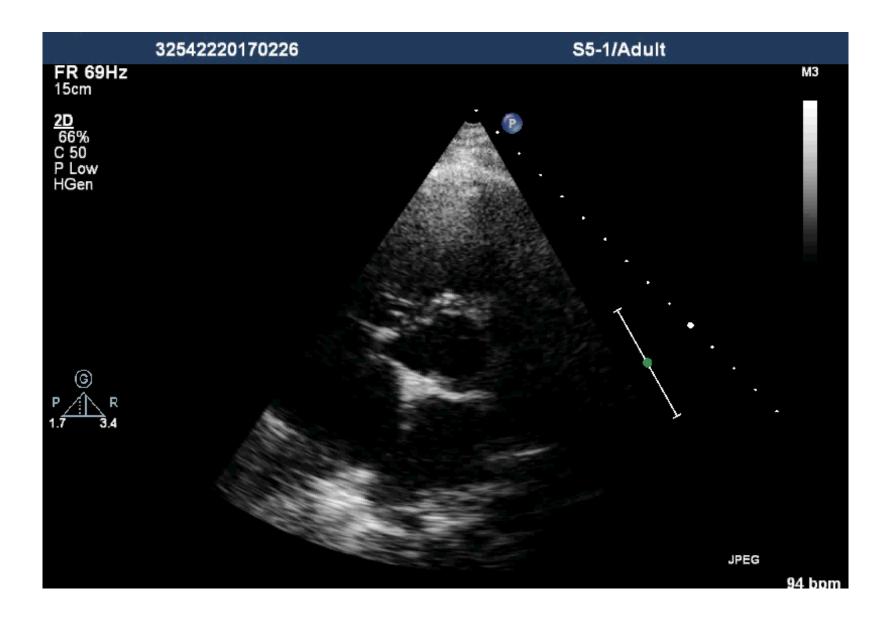












- Pt became breathless ,drowsy with haemodynamic instability
- Was intubated and connected to ventilator in SIMV mode

- ANAESTHETIC ASSESSMENT: patient had severe respiratory distress and was connected to mechanical ventilator
- Patient was assessed under ASA IV E for surgery
- Advised 2units of packed cells and reserve adequate blood for surgery
- Was transfused with 2units of A+ve packed cells and taken up for surgery

Operative findings

- Diagnosis: rupture of sinus of valsalva in to right atrium
- Procedure: REPAIR OF RSOV WITH DUAL PERICARDIAL PATCH
- Intra op findings: Midline sternotomy approach.Pt operated with CPB.
 The defect closed on both sides with a pericardial patch

AIM OF PRESENTATION

• Rarity

• To stress the need for prompt early intervention

DD – Continuous murmurs

- Patent Ductus Arteriosus
- Rupture of Sinus Of Valsalva
- Aorto Pulmonary Window
- ALCAPPA
- Intercostal AV FISTULA
- Collaterals in Coarctation Of Aorta

- Peripheral Pulmonary Artery Stenosis
- Pulmonary And Coronary AV FISTULA
- PROXIMAL Pulmonary
 Artery Stenosis
- Venous hum
- Mammary souffle

