



NEET-PG

PART-B

VOLUME-V

Cardiology, General
oncology



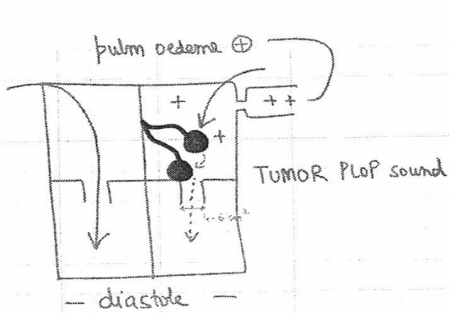
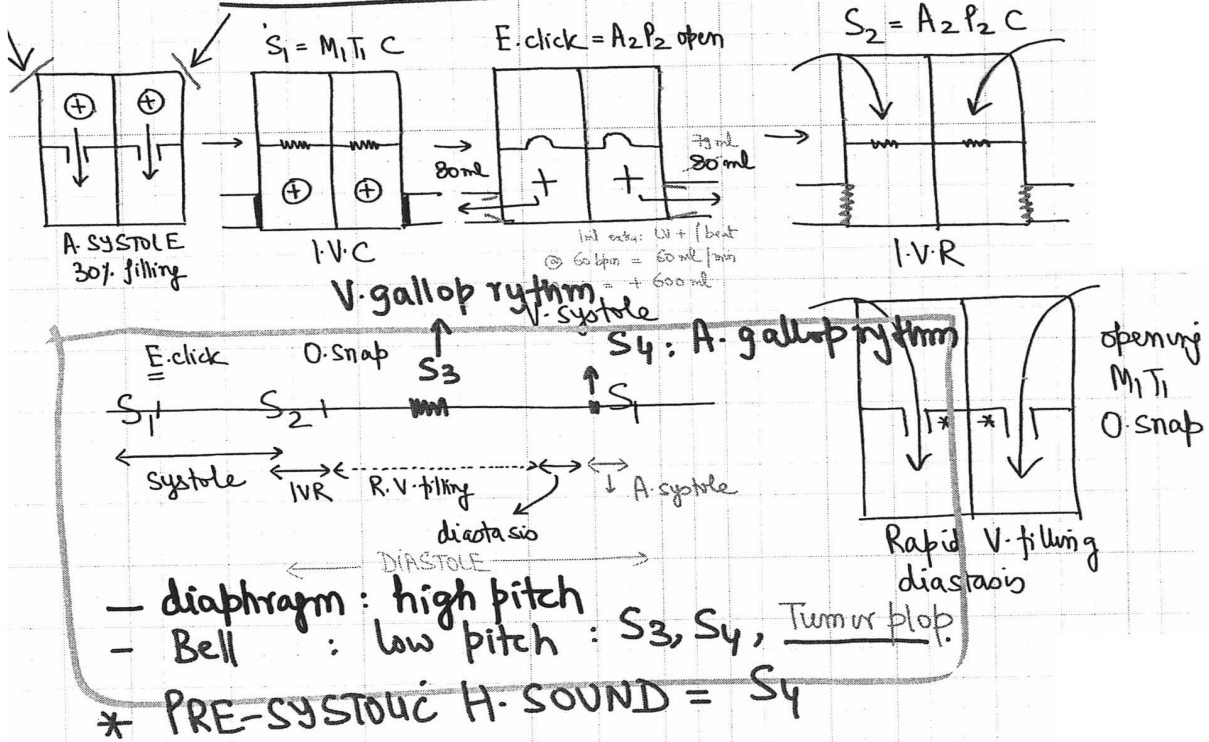
CARDIOLOGY

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GENERAL ONCOLOGY

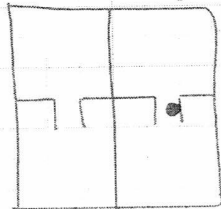
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|----------------------------|----------------|
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CARDIOLOGY



- (↓ Co)
- ♂ : EXERCISE INTOLERANCE
 - ♀ : DYSNEA ON EXERTION
 - * PLATYPNEA : ♀
dyspnea ↑ sitting position
 - O/E : Tumor plop sound *
low pitch : Bell
 - IOC : T.E.E
 - Rx ⇒ (C.T.V.S) Sx Resection

- MC Tumor HEART = 2° :
Oat cell
Ca Breast
Malignant melanoma
- MC Tumor HEART 1° malignant = ANGIOSARCOMA
- benign Tumor heart = A. Myxoma



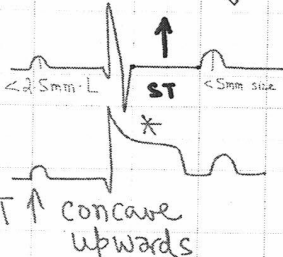
- TUMOUR ORIGINATING HEART VALVE
- ↳ Papillary ELASTOMA
 - Rx = PROSTHETIC VALVE deployed

3

TB PERICARDITIS
 LG FEVER, ↑ evening Rise of Temp
 wt loss, night sweats
 CHEST PAIN: DIFFUSE, CHEST
 O/E: PERICARDIAL FRICTION RUB: PERSISTS =

PNEURAL RUB I, E, I+E, Breath holding ✓
 Breath holding ✓

1. ECG: ST ↑



MI

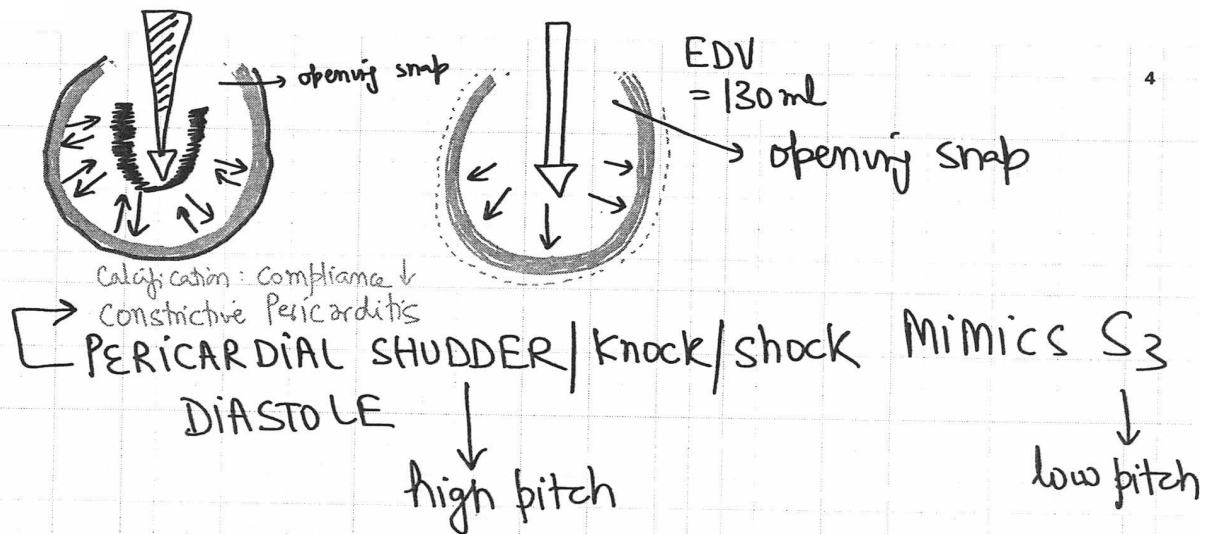
ST ↑
Convex upwards

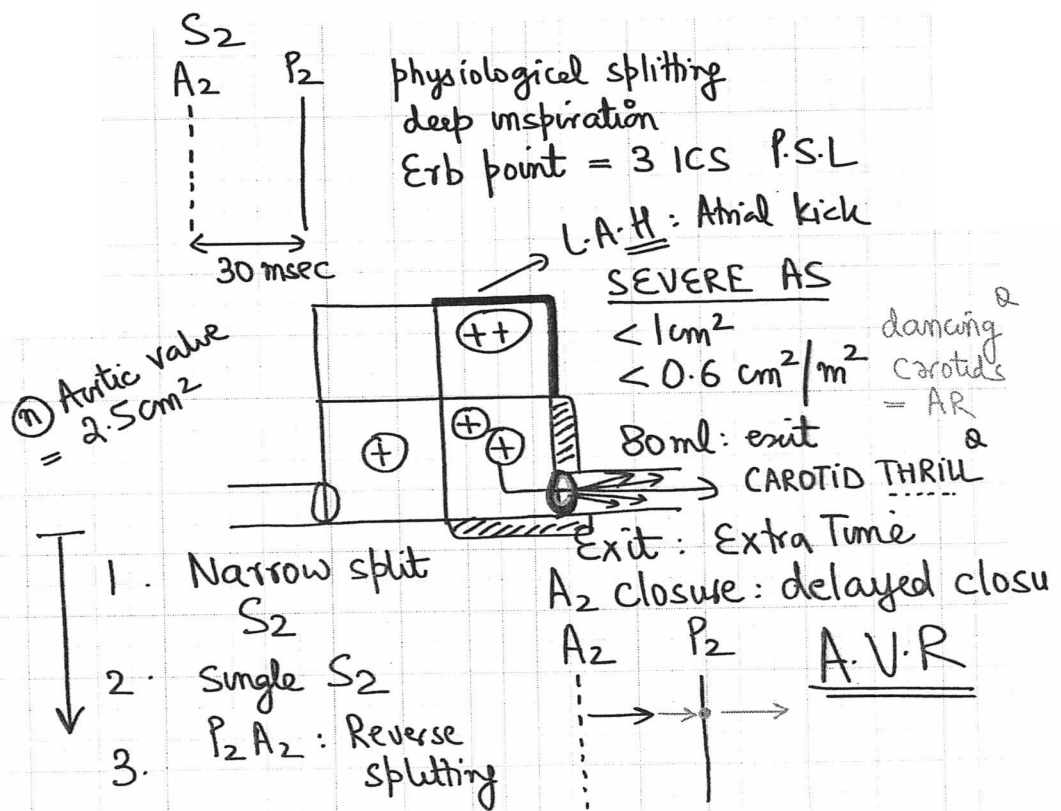
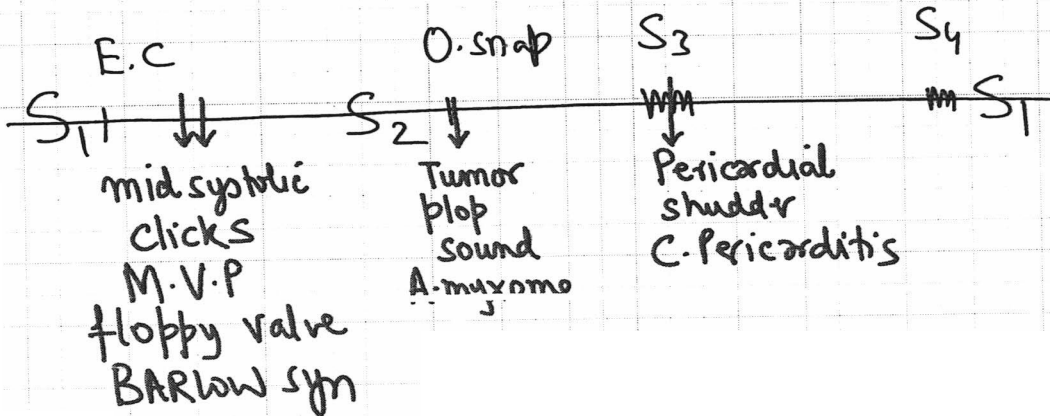
T wave inversion

PARDEE SIGN
Tomb stone sign

2. extrapulm. TB ⇒ gene XPERT
 blood sample, Pericardial fluid
 2hr : M.TB yes/no
 (R) : MTB = Rmp

3. echo = Pericardial effusion (+/-)
 (m) = 20-50ml
 Rx: A-TT x 6 months

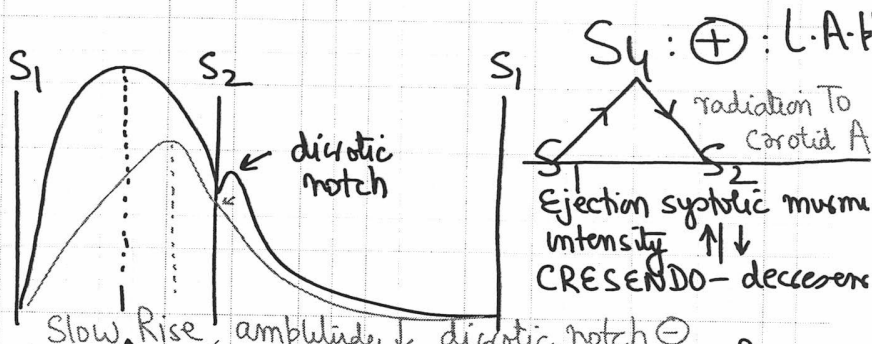




AORTIC STENOSIS
 why? infant: BICUSPID Aortic valve
 child: RHEUMATIC
 adult: SENILE CALCIFICATION

C/F: S: SYNCOPE ON EXERTION
 Triad A: ANGINA (LVH: ↑O₂ demand)
 D: DYSNEA

O/E: Pulse AS



Slow Rise, amplitude ↓, dirotic notch ⊕
PULSUS TARDUS et PARVUS, anacrotic pulse ⊕

apex beat: displaced, heaving (Forceful)

double apical impulse: 5+6 ICS

S₂: narrow split / single / Paradoxical split REVERSE

- * SEVERE
 IOC: AS: valvular ⇒ T.E.E
- ✓ ORIFICE ↓ < 0.6 cm²/m²
- ✓ TRANSVALVULAR gradient ↑ ⇒ > 40 mm Hg (LV-Ao)
- ✓ Ejection velocity ⇒ > 4 m/sec (⊕) = 1 m/sec

(Concomitant Triple vessel disease)

* Coronary angiography

AS SUPER-SEVERE ⇒ Transvalvular > 55 mm Hg gradient
 ⇒ ejection velocity > 5.5 m/sec

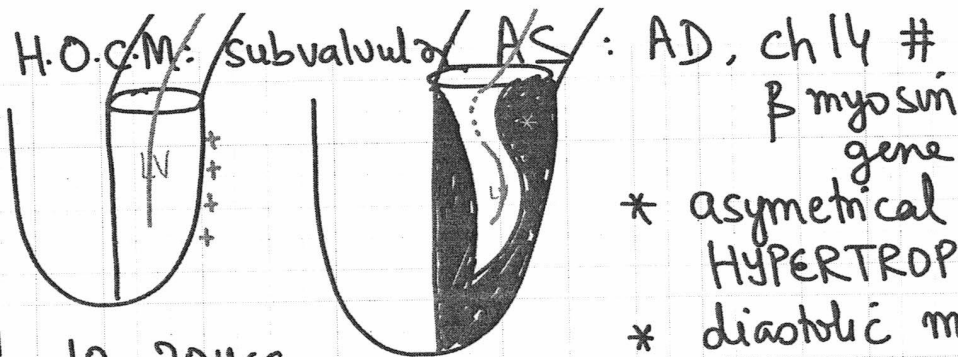
Rx: SYMPTOMATIC SEVERE AS
 \Rightarrow A.V.R

Asymptomatic SEVERE AS

Baloon dilatation = CI.

(Risk of embolic STROKE)

Pediatric SEVERE AS \Rightarrow Baloon dilatation



♂: 10-20yrs

1. DYSNEA
2. CHEST PAIN

: subendocardial ischemia

3. EFFORT INTOLERANCE

4. FOOTBALL MATCH: \rightarrow RUNS FAST

subendocardial ischemia \uparrow
 collapsed
 cyanosis, pulseless
 death

Why? \rightarrow

Ischemic Ventricular fibrillation

5. Sudden cardiac death
 in sibling

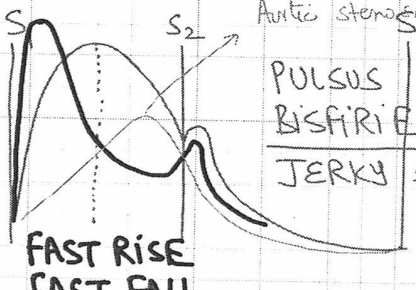
Medical CERTIFICATE : FITNESS 11

Pulse ⇒

* H.O.C.M

⇓

POWER ↑



FAST RISE
FAST FALL

Anti stenosis

PULSUS BISFIRIENS

JERKY pulse

UNFIT
FOR
RECRUITMENT

S₂ ⇒ OBSTRUCTION : EXIT: EXTRA Time

A₂ : CLOSE LATER
NARROW SPLIT

POLICE
ARMY
LOCO-DRIVER

O/E

- * 1. PULSUS BISFIRIENS
2. APEX BEAT: DISPLACED, HEAVING
Double ampical impulse
3. S₂: narrow split / Paradoxical split
4. S₄ ⊕
5. Ejection systolic MURMUR

IOC ⇒ T.T.E : LV wall THICKNESS ↑↑
= S.A.M systolic ant movt of Mitral valve

Rx: HOCM : DOC : PROPRANOLOL
(↓HR : ↓O₂ consumption)

H/O recurrent

S.C.D ⊕

syncope attacks ⊕

LV free wall > 30 mm

I.C.D

Read ECG
analyse ECG
abn rhythm detection
↓
DC SHOCK

implantable cardioverter
defibrillator

OR

oral
disopyramide



Sx : HOCM

MYOMECTOMY

ALCOHOL BASED

Septal ablation ✓

DOC = PRPNL

TOC = I.C.D [↓ mortality due to S.C.D)

25yr - FOOTBALLER : elbowed in chest by the rival
 ↓
 Collapsed / death

BLUNT TRAUMA TO CHEST

⇓
 COMMO TIO CO RDIS : V. fibrillatio

ACEI →
 NTG → HOCM: pulm oedeme ⊕
 iv FUROSEMIDE
 Venous Return ↓
 Rt inflow ↓
 LV inflow ↓↓
 SBP ↓↓ = death

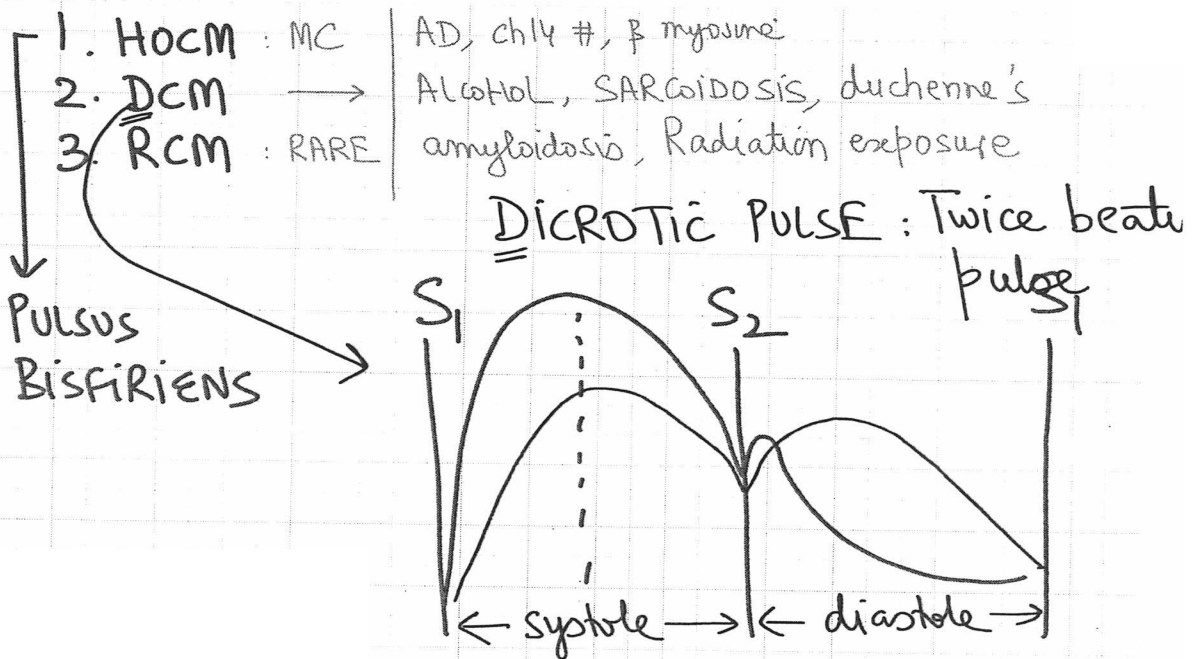
* digoxin, ACEI, ARB, CCB, NTG, furosemide
 = CI in HOCM
 except: PROPRANOLOL
 VERAPAMIL : AV nodal delay ↑

②

20 yr, chest pain REST
 = S.L. NTG
 Chest pain ↑↑
 SBP ↓: death

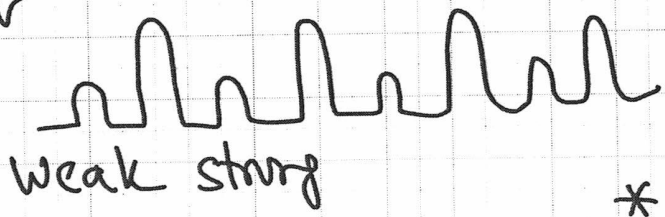
HOCM

Coronary blood flow ↓

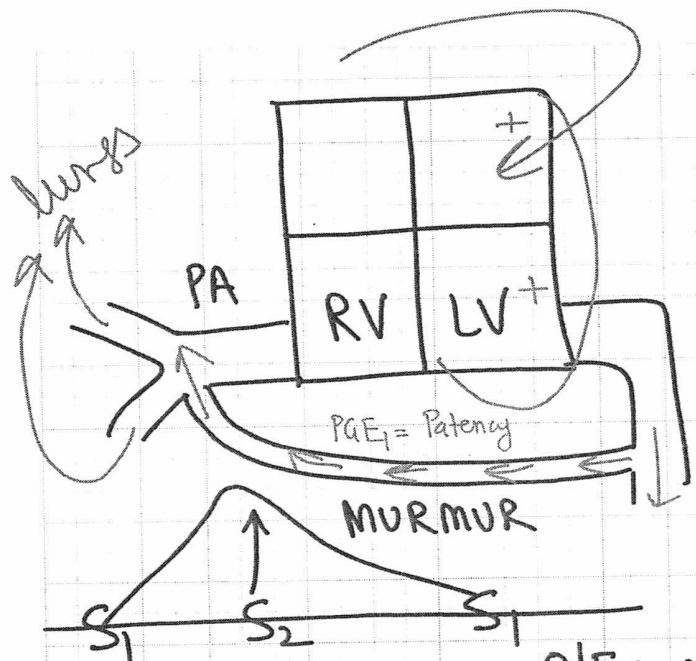


A	anacrotic pulse	AS
B	Bisfiriens	HOCM
C	Collapsing, Corrigan pulse	AR
D	<u>dirotic</u>	<u>DCM</u>

Water hammer



PULSUS
ALTERAN:
* LUF



Patent ductus arteriosus

LUF (L → R shunt)

Pre Term: birth
Term: 6 wks

Aorta Effort intolerance
IRRITABLE
difficulty in b. feeding
diaphoresis ⊕

* ← systole → ← diastole → O/E: → S₂: A₂ P₂ narrow split
* Peaks at S₂ LUF exit: extra time
CONTINUOUS MURMUR A₂: delayed closure

lungs ⇒ BIL FINE CREPITATIONS
BI-BASILIAR CREPITATIONS ⇒ I.L.D

IOC: T.T.E

Rx: P.T = DOC indomethacin/ibuprofen

Term = Sx ligation

1yr child \bar{c} PDA = Sx ligation

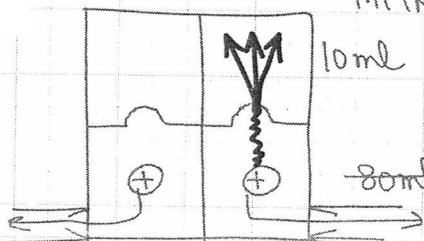
NARROW SPLIT S₂

1. AORTIC STENOSIS
2. HOCM
3. LVF : P.D.A

ant. wall Mi
 Wet BERI BERI
 S. anemia
 Coxsackie B myocarditis

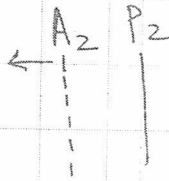
→ RBC Transketolase levels ↓

MITRAL REGURGITATION

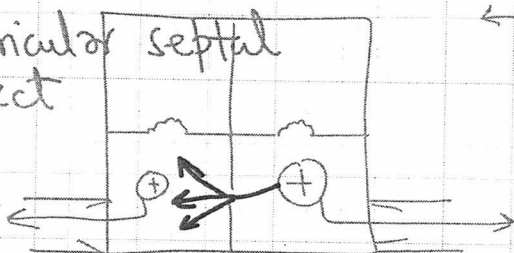


Wide split S₂

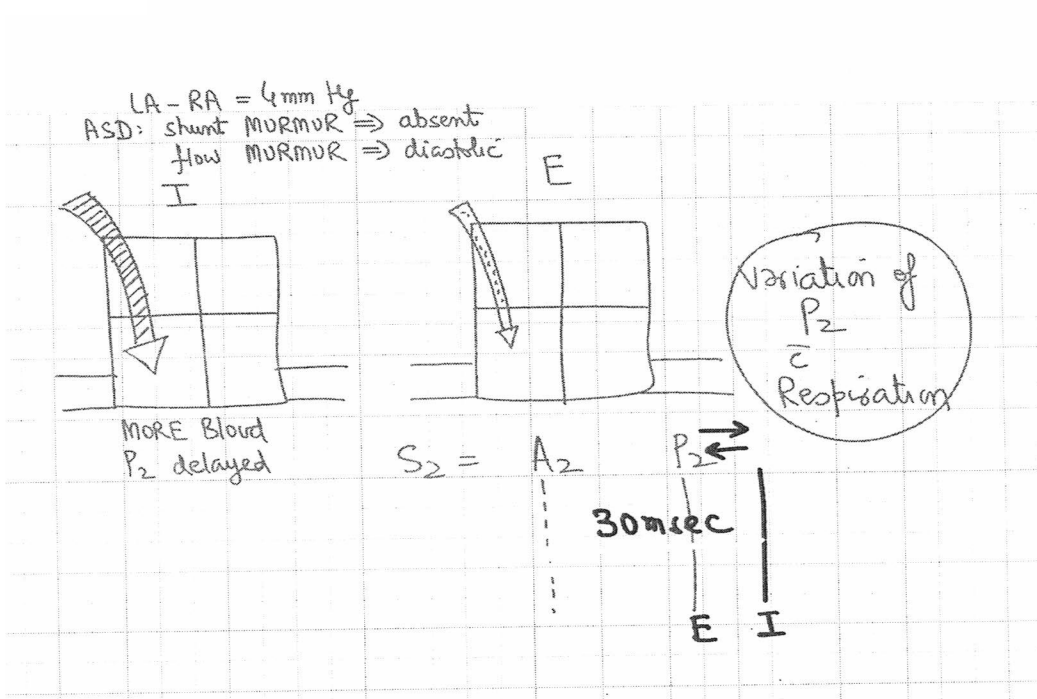
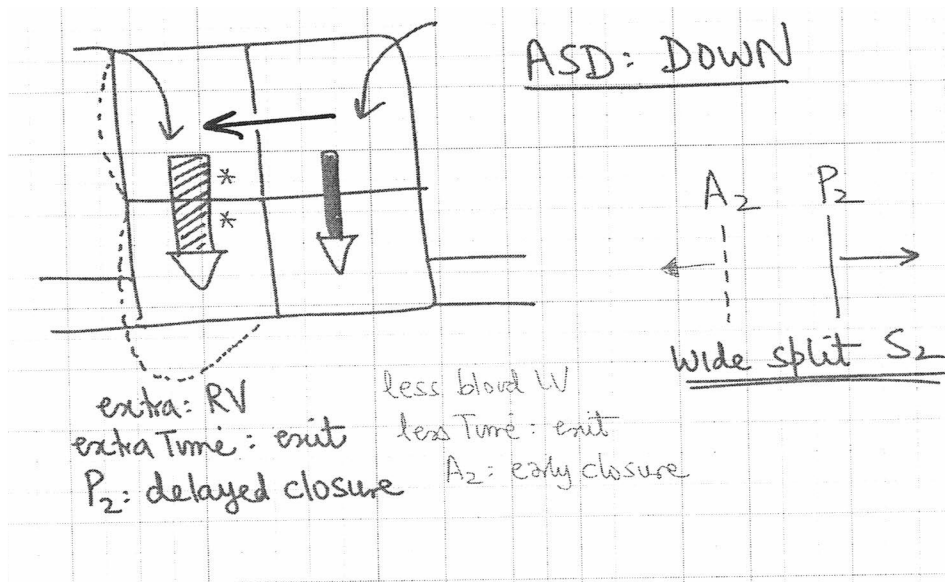
70ml : exit : less Time
 A₂ closure : early

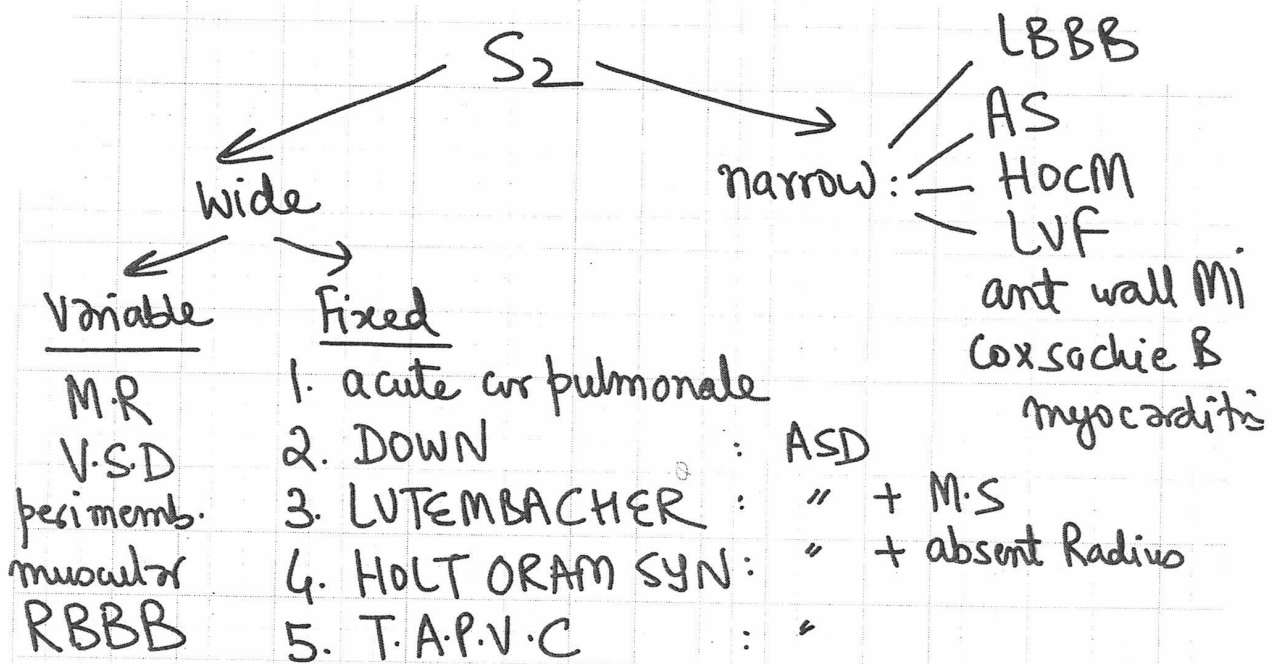
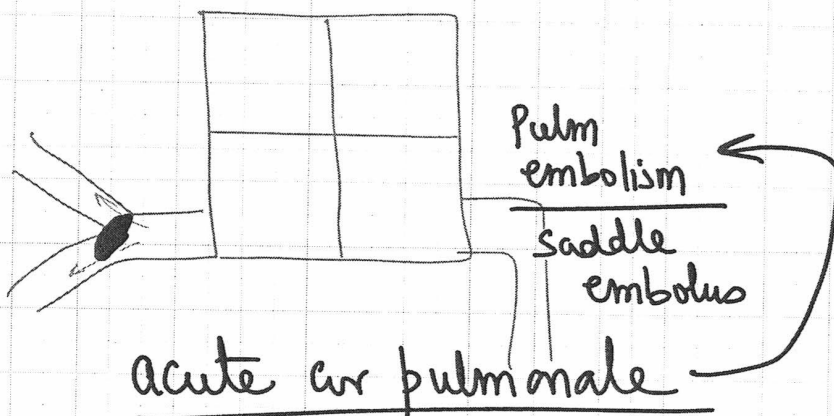
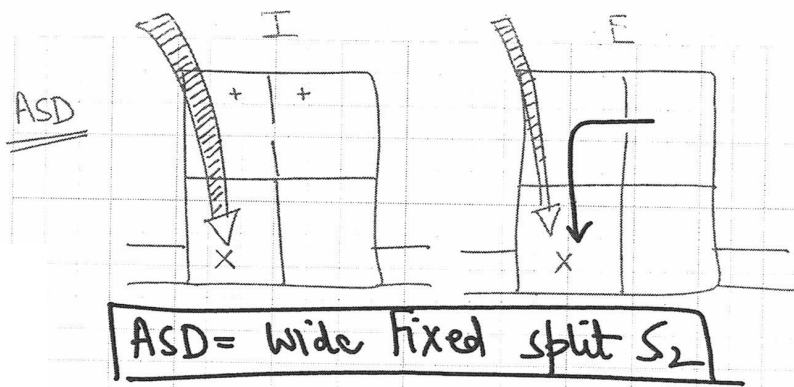


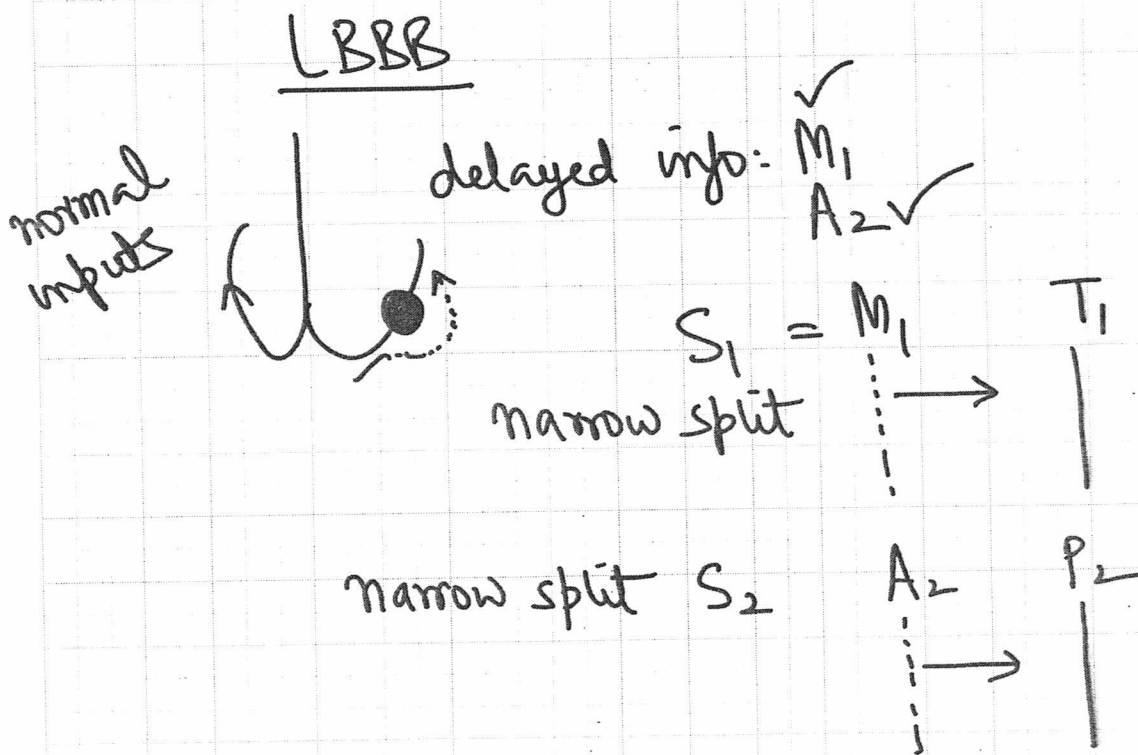
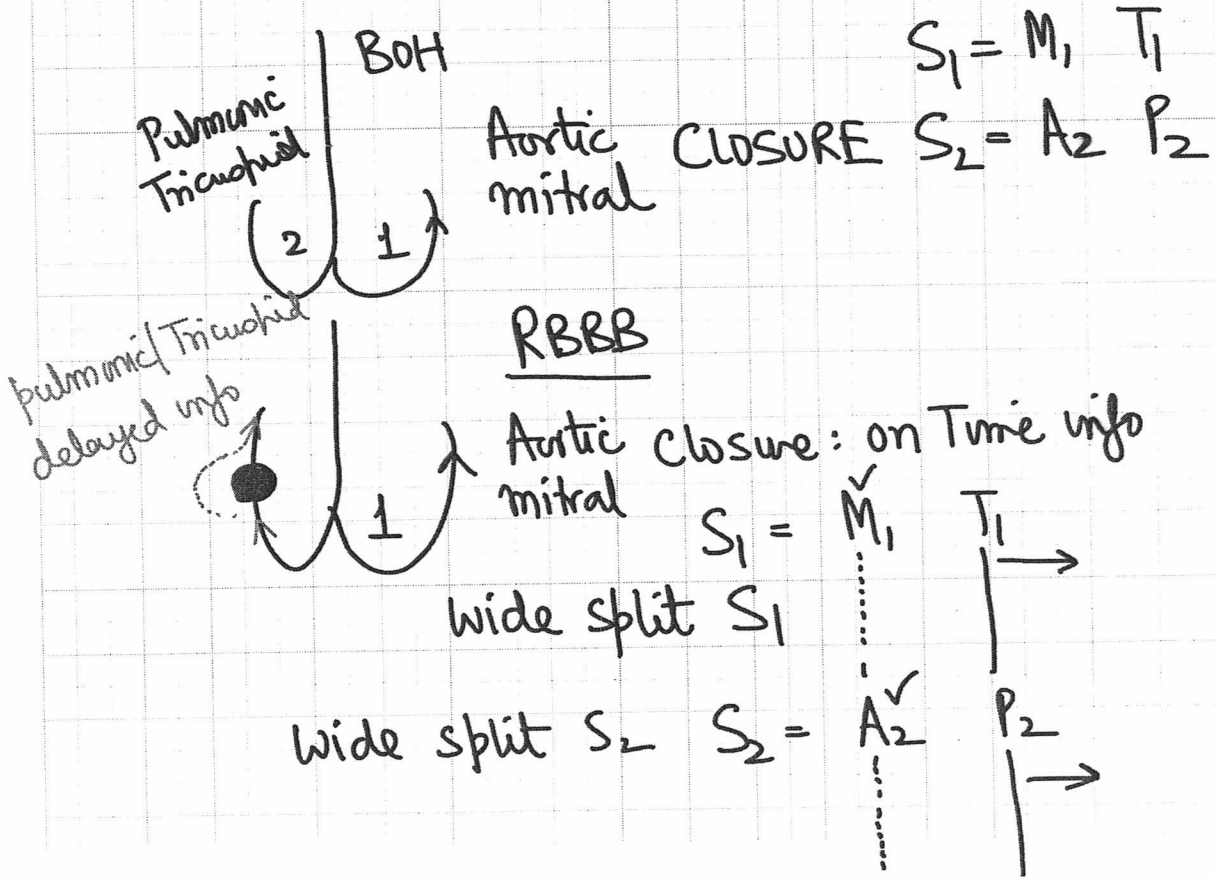
Ventricular septal defect



1. Perimembranous VSD : MC subtype
2. muscular VSD : spontaneous closure : 3yrs
3. supracristal VSD \bar{c} AR







S_1 : intensity \propto speed of closure

Loud S_1

$$PR \propto \frac{1}{HR}$$

1. Tachycardia: SHORT P-R interval
 - : CHF
 - : S-anemia
 - : PHEOCHROMOCYTOMA
 - : THYROTOXICOSIS

2. physiological: children, pregnancy

3. MITRAL STENOSIS: LA pressure \uparrow
 Transvalvular \uparrow gradient \uparrow FAST opening mitral valve
 FAST elastic Recoil "

Calcified MS = mobility \downarrow Recoil \downarrow : SOFT S_1

TRICUSPID STENOSIS

SOFT S_1

28

1. Bradycardia: Prolonged PR

Hypothyroidism

SAN# : sick sinus syn

AVN# : complete H. Block

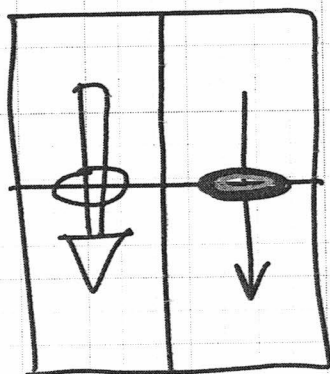
BoH# : Mobitz II H. Block

2. OBESITY, EMPHYSEMA (AIR TRAPPING)

3. CALCIFIED MS

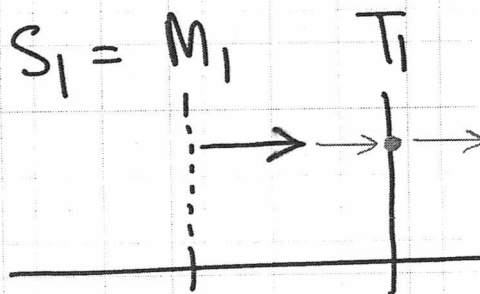
" TS

4. MITRAL REGURGITATION



MS

Extra Time
delayed M₁

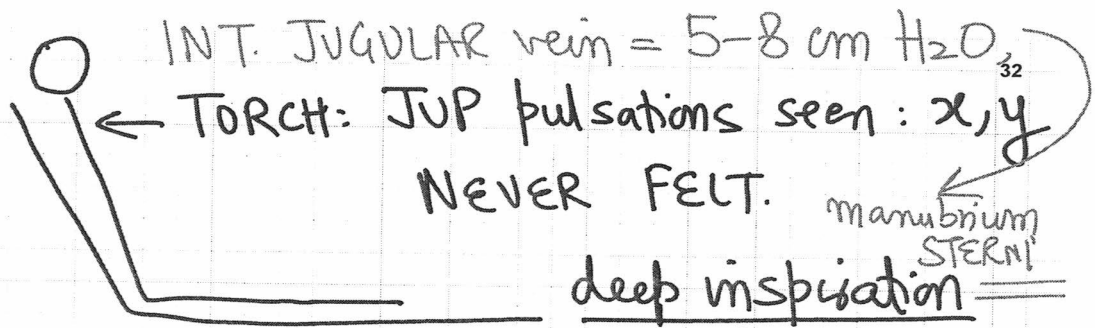
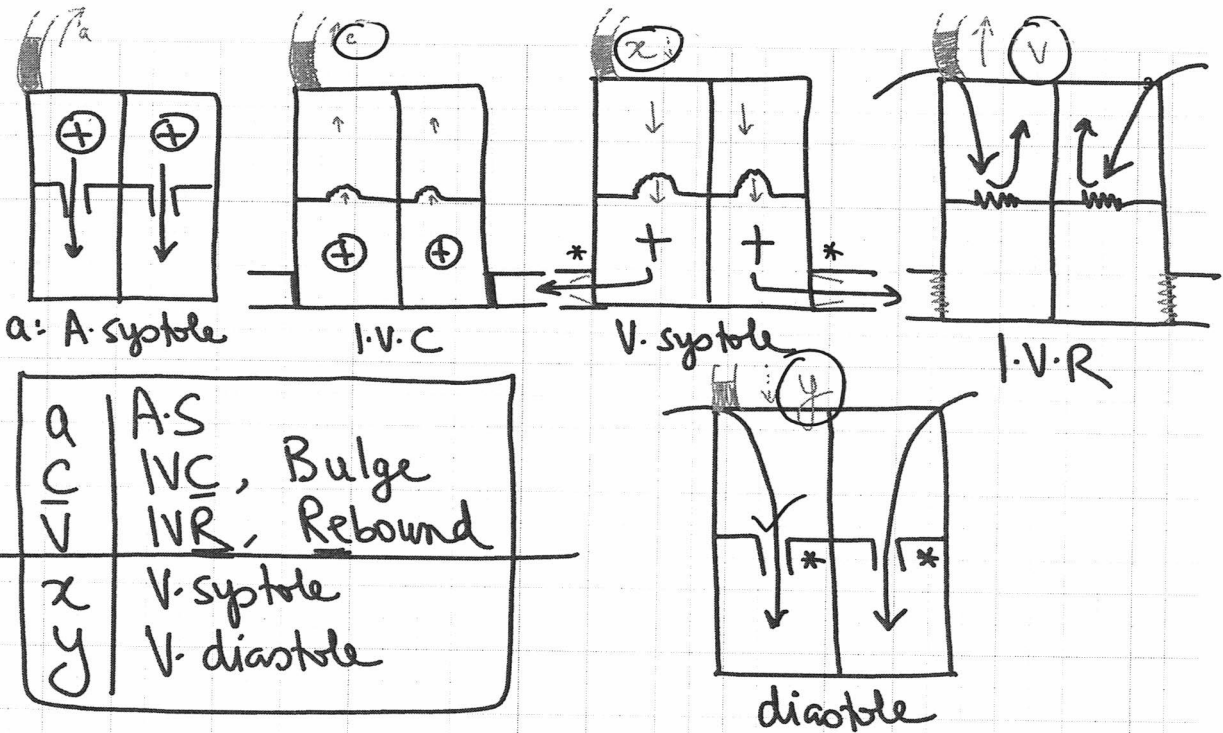


narrow split S₁

1. LBBB
2. MS

1. Loud S₁
2. Soft S₁
3. narrow split S₁
4. single S₁
5. Paradoxical S₁ split

S ₃	S ₄
V. gallop rhythm	Atrial gallop rhythm
early diastolic	Late diastolic
Rapid V. filling dilated ventricles	OUTFLOW TRACT obstruction L.V.H, L.A.H ✓ R.V.H, R.A.H ✓
<ul style="list-style-type: none"> * CHF * DCM * Cor pulmonale RVF due to <u>emphysema</u> * acute cor pulmonale acute RVF due to <u>MASSIVE pulm embolism</u> 	<ul style="list-style-type: none"> AS: left sided S₄ HOCM: left sided S₄ HTN: left sided S₄ PS: Right sided S₄ PAH: Right sided S₄



manubrium STERNI
 deep inspiration
 JVP fall

* C.P + deep inspiration = JVP RISES
 ↓
 (Compliance ↓)
 — Kussmaul sign

JVP_y = 2 x carotid frequency

C : C.P : calcification
R : RCM : FIBROSIS
R : <u>Rt</u> CHF = long wall MI PE SEVERE COPD