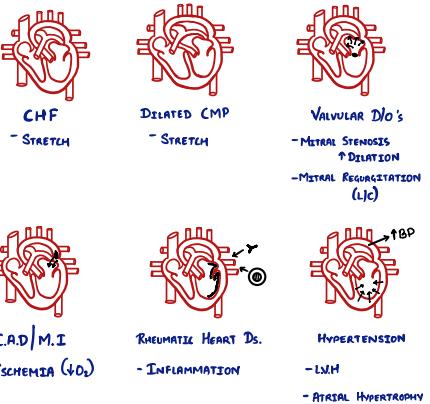
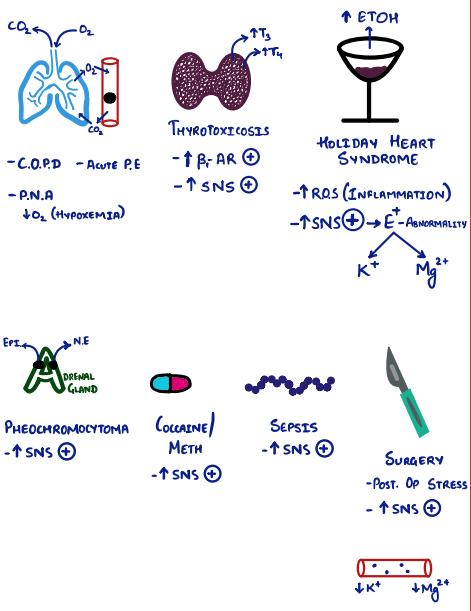


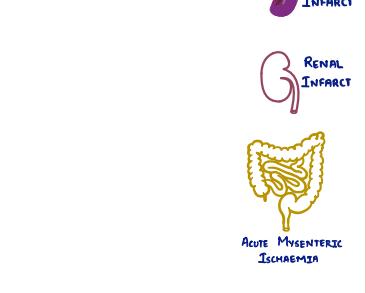
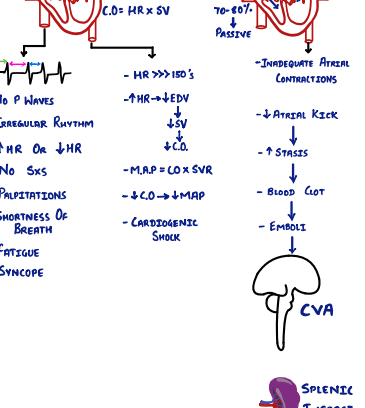
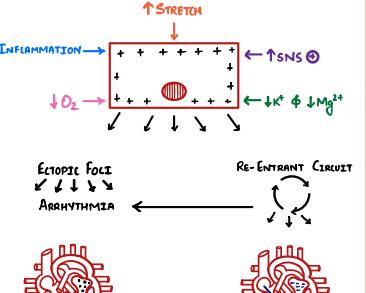
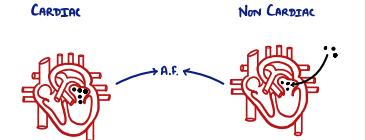
CARDIAC CAUSES



NON-CARDIAC CAUSES



PATHOPHYSIOLOGY



DIAGNOSIS

CLASSIFICATION

HEMODYNAMICS

HD UNSTABLE

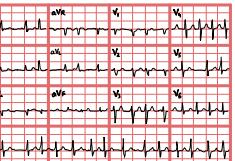
HD STABLE

VENTRICULAR RATE

RAPID VENTRICULAR RATE: AF \neq RVR
HR \gg 100 BPM

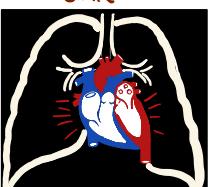
SLOW VENTRICULAR RATE: AF \neq SVR
HR $<$ 60 BPM

E.K.G



- AF \oplus
- \pm WPW
- R/o STE/STD
- LVH
- OUTPATIENT - HOLTER MONITOR
- INPATIENT - TELEMETRY

CXR



- PNA (R/o)
- COPD
- CARDIOMEGLAY

ONSET AND DURATION

NEW: <48-72 HRS LONG STANDING: >1YR

PAROXYSMAL: <7 DAYS PERSISTENT: >7 DAYS

PERMANENT: >7 DAYS WITHOUT ATTEMPTS TO CARDIOVERT \rightarrow NORMAL SINUS RHYTHM

MITRAL VALUE INVOLVEMENT

VALVULAR A.F.: MITRAL STENOSIS OR MECHANICAL VALVE

NONVALVULAR A.F.: NO MITRAL STENOSIS OR MECHANICAL VALVE

T.E.E Or T.T.E



- Atrial Thrombus \oplus
- Mitral Valve D/o \oplus
- LVEF
- LVH
- Atrial Dilation \oplus

LABS

- BNP $\uparrow\uparrow\uparrow$ \rightarrow CHF
- TROPONINS \rightarrow M.I.
- CBC \rightarrow \uparrow WBC
- TSH \neq REFLEX \rightarrow $\uparrow T_3 + T_4$
- BLOOD ETOH \oplus
- URINE METANEPHRINES \oplus
- URINE TOX \oplus

TREATMENT

AF \rightarrow HD UNSTABLE \rightarrow DIRECT CURRENT CARDIOVERSION

HD STABLE
50-70% CASES IN 24 HRS \rightarrow SPONTANEOUS CARDIOVERSION

1) RATE CONTROL \rightarrow 2) ANTICOAGULATION \rightarrow 3) CONSIDER CARDIOVERSION

AF <48 HRS $\&$ \downarrow RISK OF CVA

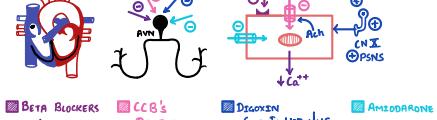
CARDIOVERT \pm ORAL AC x 4 WKS

AF >48 HRS $\&$ \uparrow RISK OF CVA

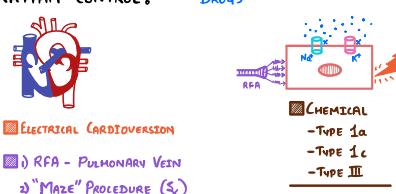
T.E.E \rightarrow RECHECK \pm ORAL AC x 3 WKS

LA THROMBUS \ominus CARDIOVERT + ORAL AC x 4 WKS

RATE CONTROLS:



RHYTHM CONTROL:



ANTICOAGULATION %

HAS-BLED VS **CHA_2DS_2-VASc** \rightarrow RISK STRATIFY

WATCHMAN DEVICE

CHF +1

Htn +1

AGE \geq 75 +2

DM +1

STROKE/TIA +2

VASCULAR DX (PAD, CAD) +1

AGE 65-74 yrs +1

SEX \rightarrow F +1

M 0

SCORE - 0 \rightarrow NO AC NEEDED

SCORE - 1 \rightarrow \pm AC (POSSIBLE)

SCORE - ≥ 2 \rightarrow AC NEEDED

WARFARIN:

- VALVULAR AF
- CKD OR LIVER DX
- INR = 2.3

DOAC's

- IIA-I**
 - RIVAROXABAN
 - APIXABAN
- IIA-II**
 - DABIGATRAN
 - NON VALVULAR AF

HEPARIN

- UFH OR LMWH
- HOSPITAL
- PTT
- BRIDGE

NINJA NERD