

Critical Care Transport

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Schedule

- Introductions
- Divide into 3 groups
- Breakout



Order

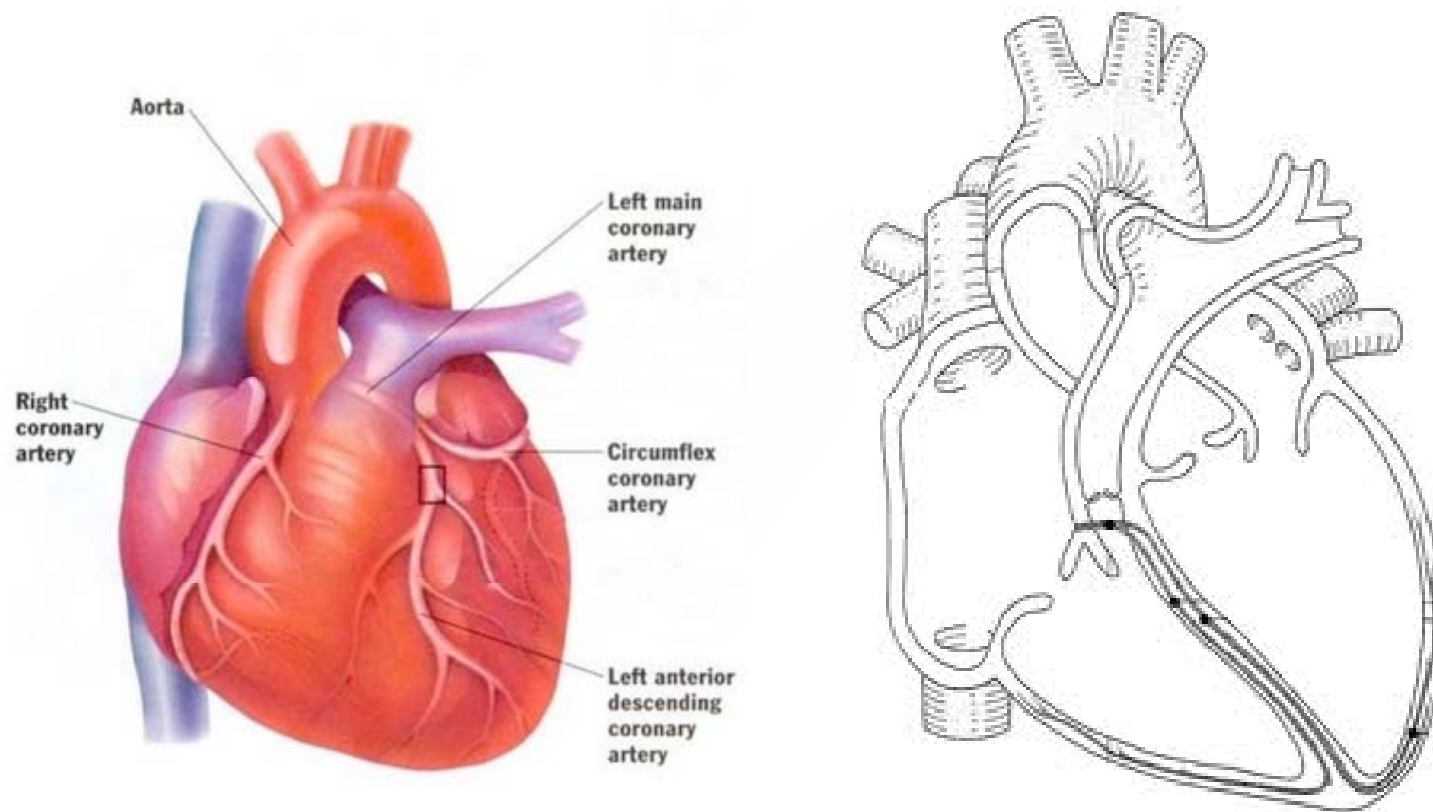
	IABP	Vent	Hot Topics
1345-1435	1	2	3
1445-1535	3	1	2
1545-1635	2	3	1
1640	Main Classroom for wrap-up and Badge Scanning		

Objectives

- Overview of the generally less familiar topics encountered in the advanced certification exams
 - FP-C
 - CCP-C
 - CCEMT-P

3 hours can't substitute for the review session encouraged by the BCCTPC, but we can point you in the the right direction.

Cardiac



Cardiac

- Using 12-lead ECG, what understanding can we gain about an MI?

I	aVR	V1	V4
II	aVL	V2	V5
III	aVF	V3	V6

Cardiac

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Cardiac

- Vessel of Occlusion

I	aVR	V1	V4
II	aVL	V2	V5
III	aVF	V3	V6

Cardiac

- Vessel of Occlusion

I - Cx	aVR	V1	V4
II	aVL	V2	V5
III	aVF	V3	V6

Cardiac

- Vessel of Occlusion

I - Cx	aVR	V1	V4
II - RCA	aVL	V2	V5
III - RCA	aVF - RCA	V3	V6

Cardiac

- Vessel of Occlusion

I - Cx	aVR	V1	V4
II - RCA	aVL - Cx	V2	V5
III - RCA	aVF - RCA	V3	V6

Cardiac

- Vessel of Occlusion

I - Cx	aVR	V1 – LAD (high)	V4 - LAD
II - RCA	aVL - Cx	V2 – LAD (high)	V5
III - RCA	aVF - RCA	V3 - LAD	V6

Cardiac

- Vessel of Occlusion

I - Cx	aVR	V1 – LAD (high)	V4 - LAD
II - RCA	aVL - Cx	V2 – LAD (high)	V5 - Cx
III - RCA	aVF - RCA	V3 - LAD	V6 - Cx

Cardiac

I - Cx	aVR	V1 – LAD (high)	V4 - LAD
II - RCA	aVL - Cx	V2 – LAD (high)	V5 - Cx
III - RCA	aVF - RCA	V3 - LAD	V6 - Cx

Left Main Coronary Artery – 85 % of blood supply to myocardium

- LAD – Supplies
 - Anterior wall of LV, Intra-ventricular Septum
- Cx – Supplies
 - Lateral and posterior LV

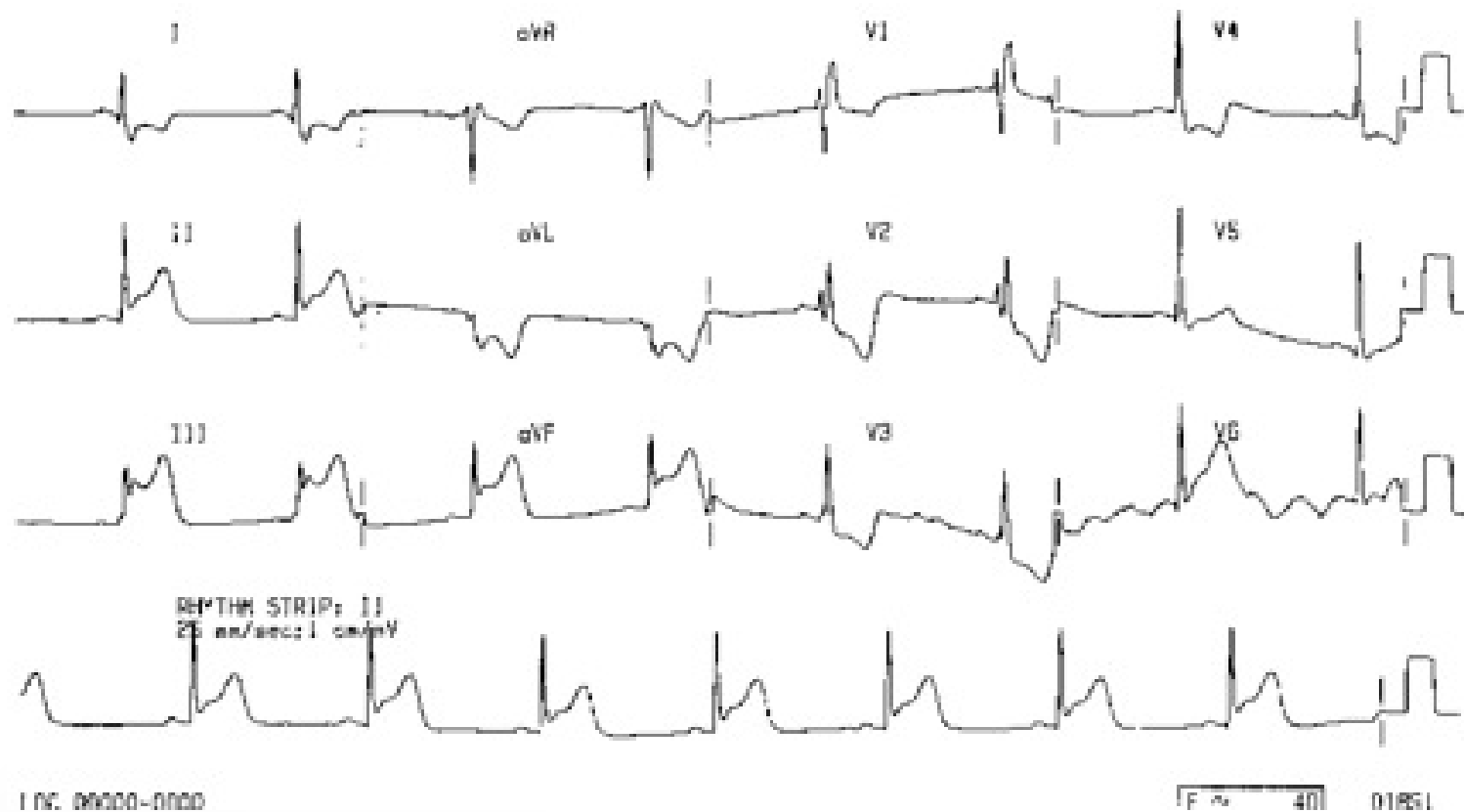
Cardiac

I - Cx	aVR	V1 – LAD (high)	V4 - LAD
II - RCA	aVL - Cx	V2 – LAD (high)	V5 - Cx
III - RCA	aVF - RCA	V3 - LAD	V6 - Cx

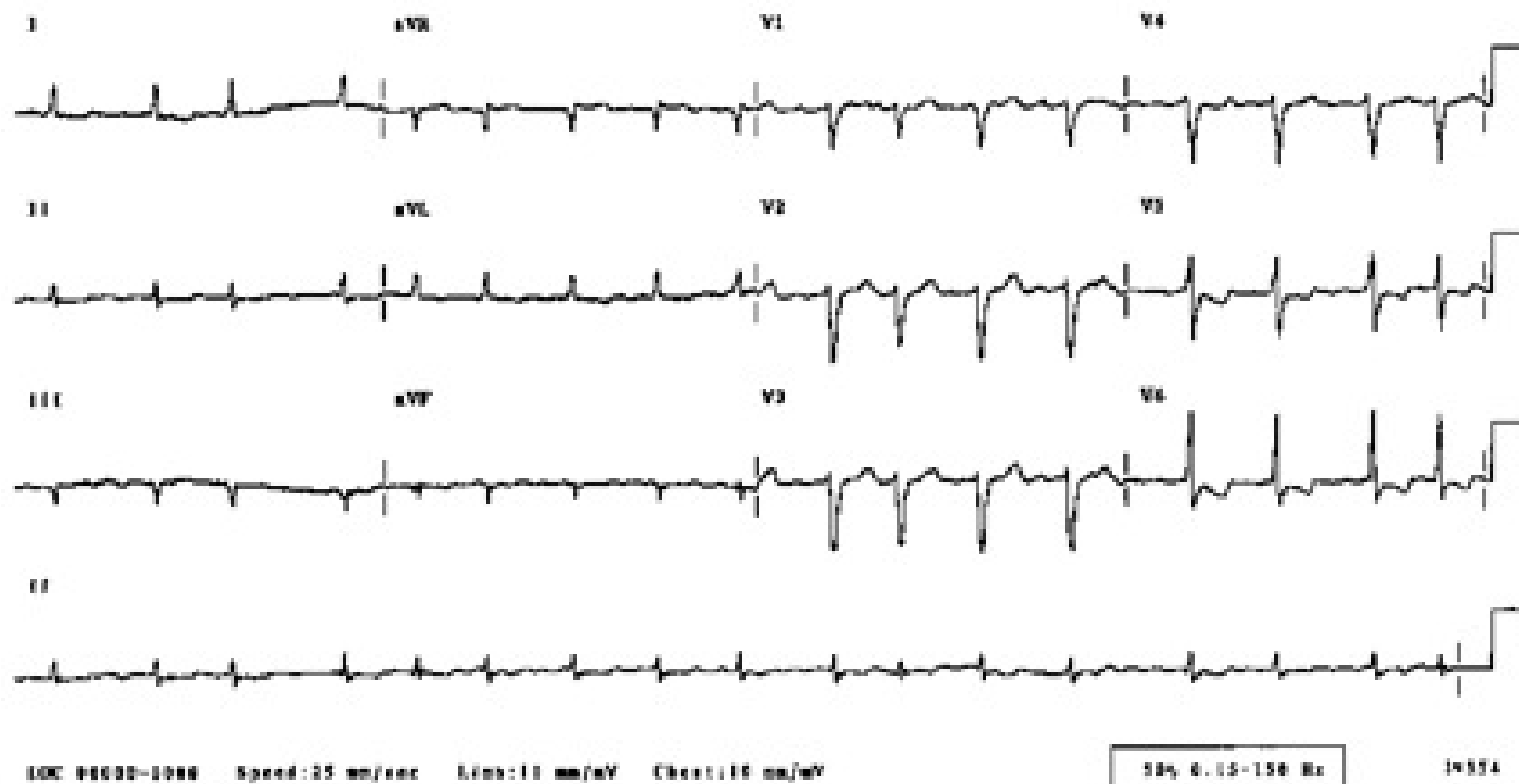
Right Coronary Artery

- Blood Supplied to:
 - most of RA & RV
 - Inferior aspect of LV (23-35%)
 - SA Node (60% of patients)
 - Posterior wall

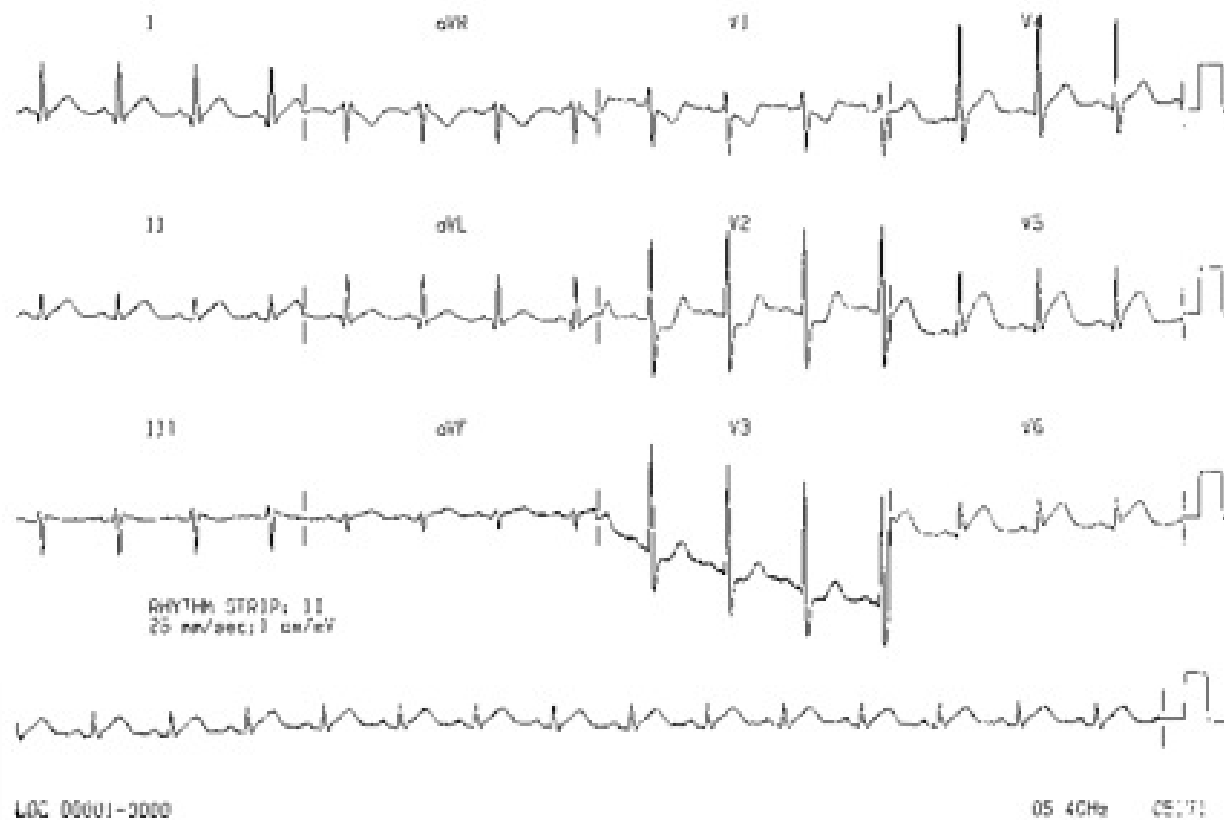
12-Leads



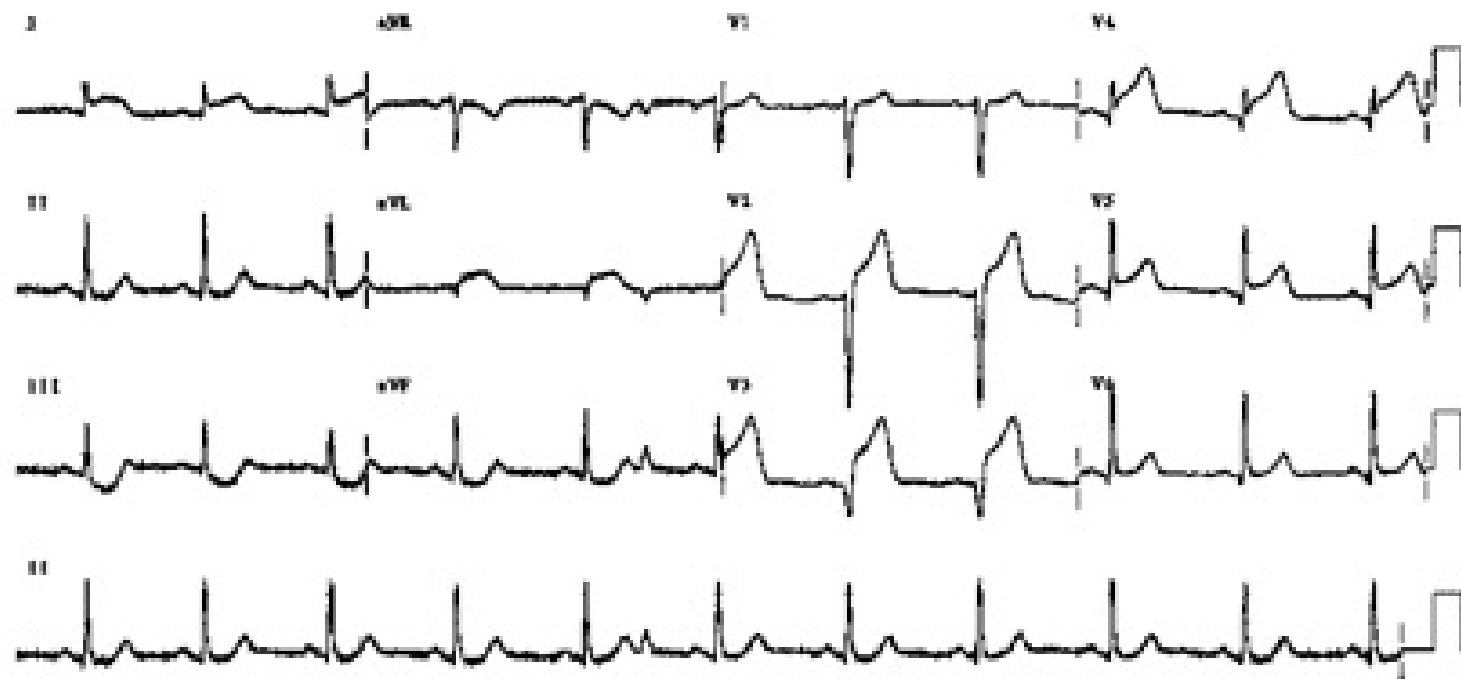
12-Leads



12-Leads



12-Leads

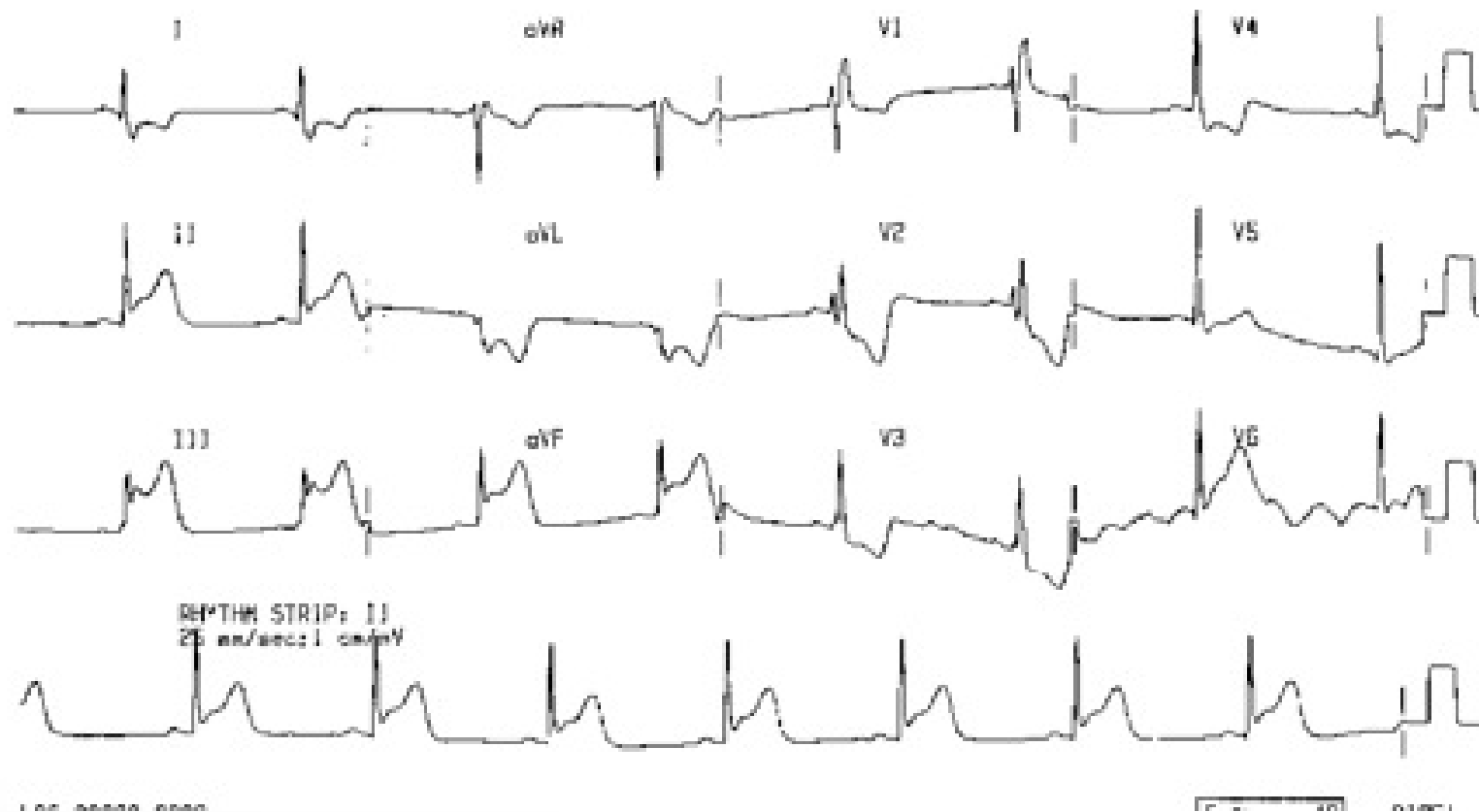


LOC 00000-0100 Speed:25 mm/sec Limb:10 mm/mV Chest:10 mm/mV

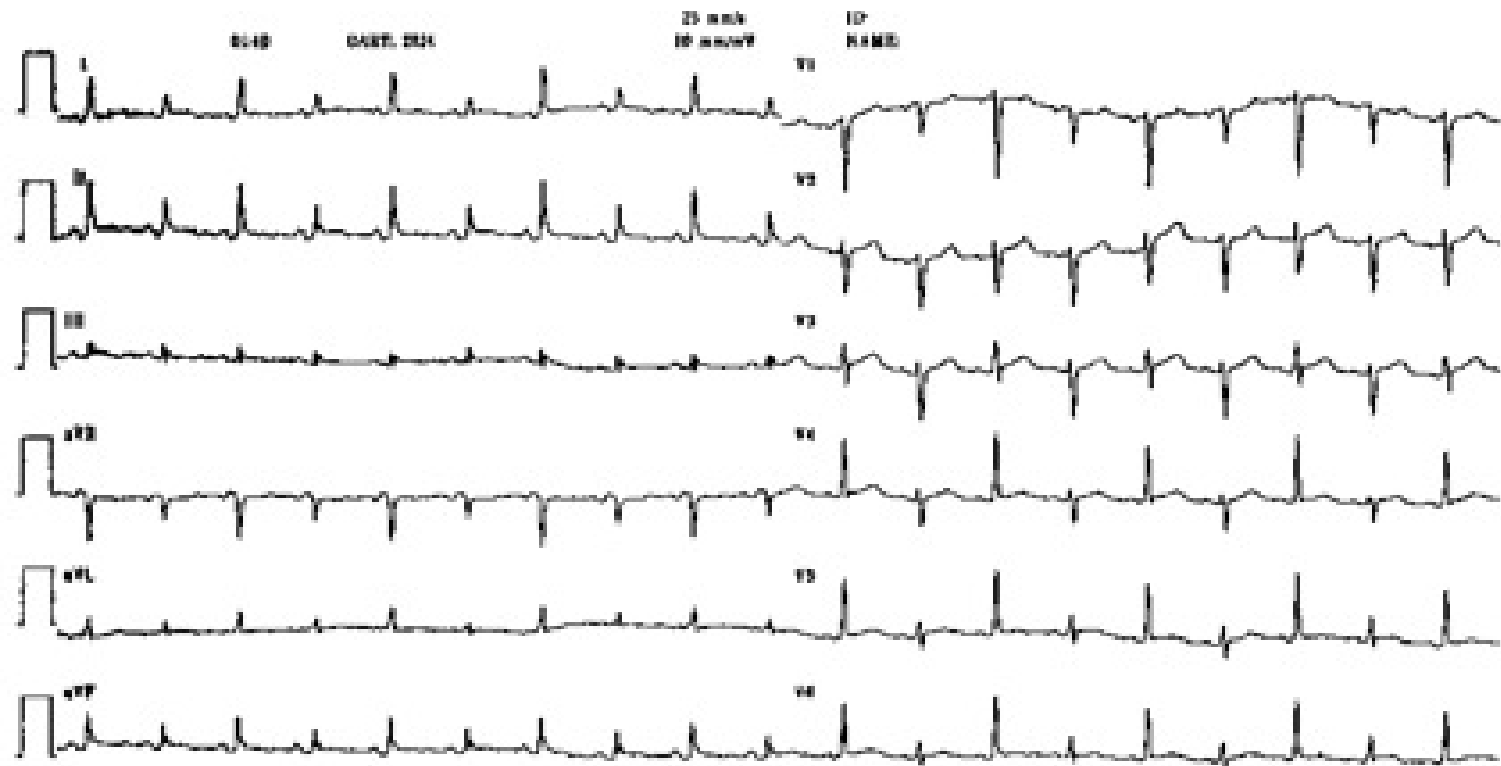
10% R. 12-120 Hz

25000

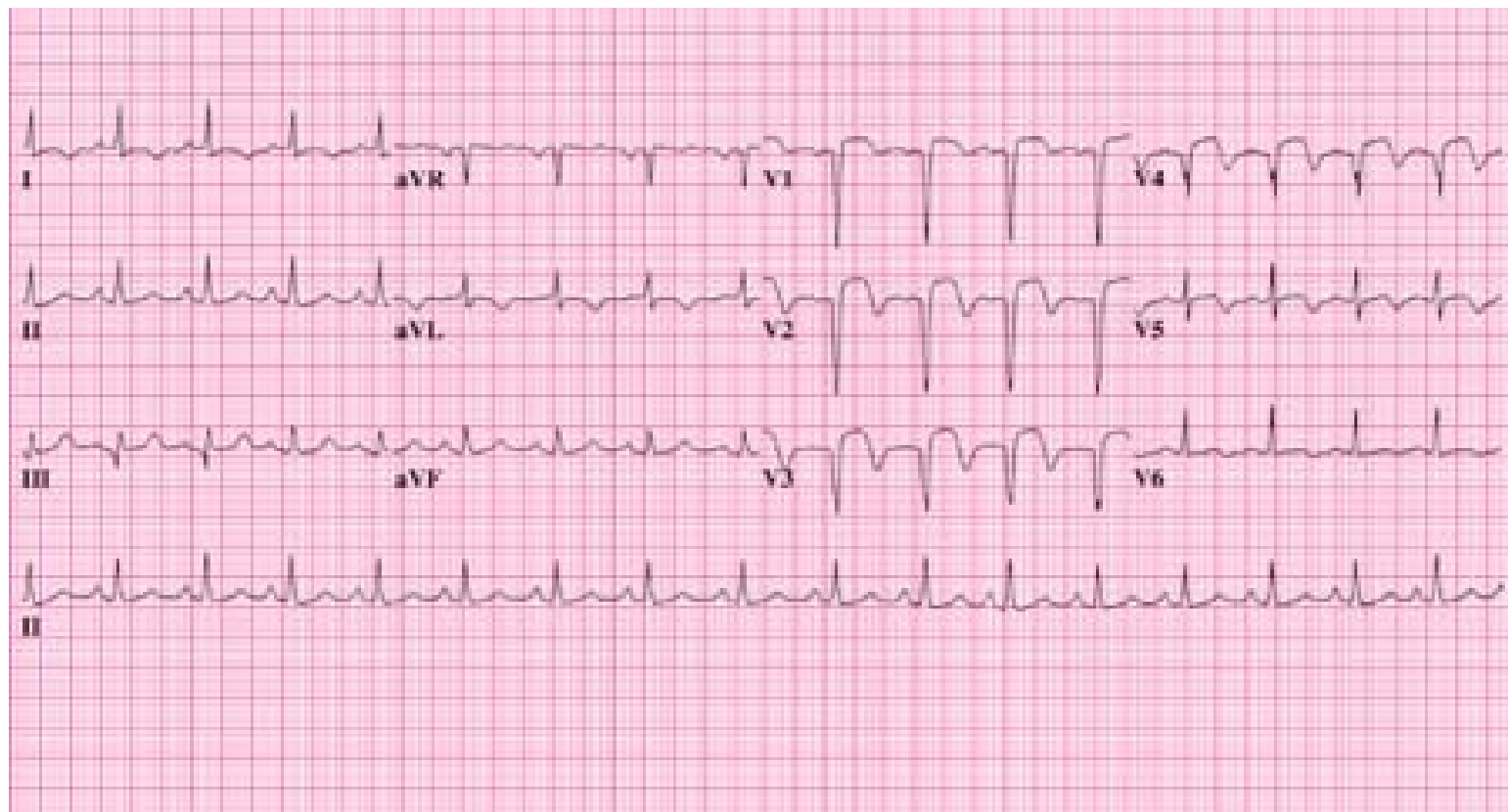
12-Leads



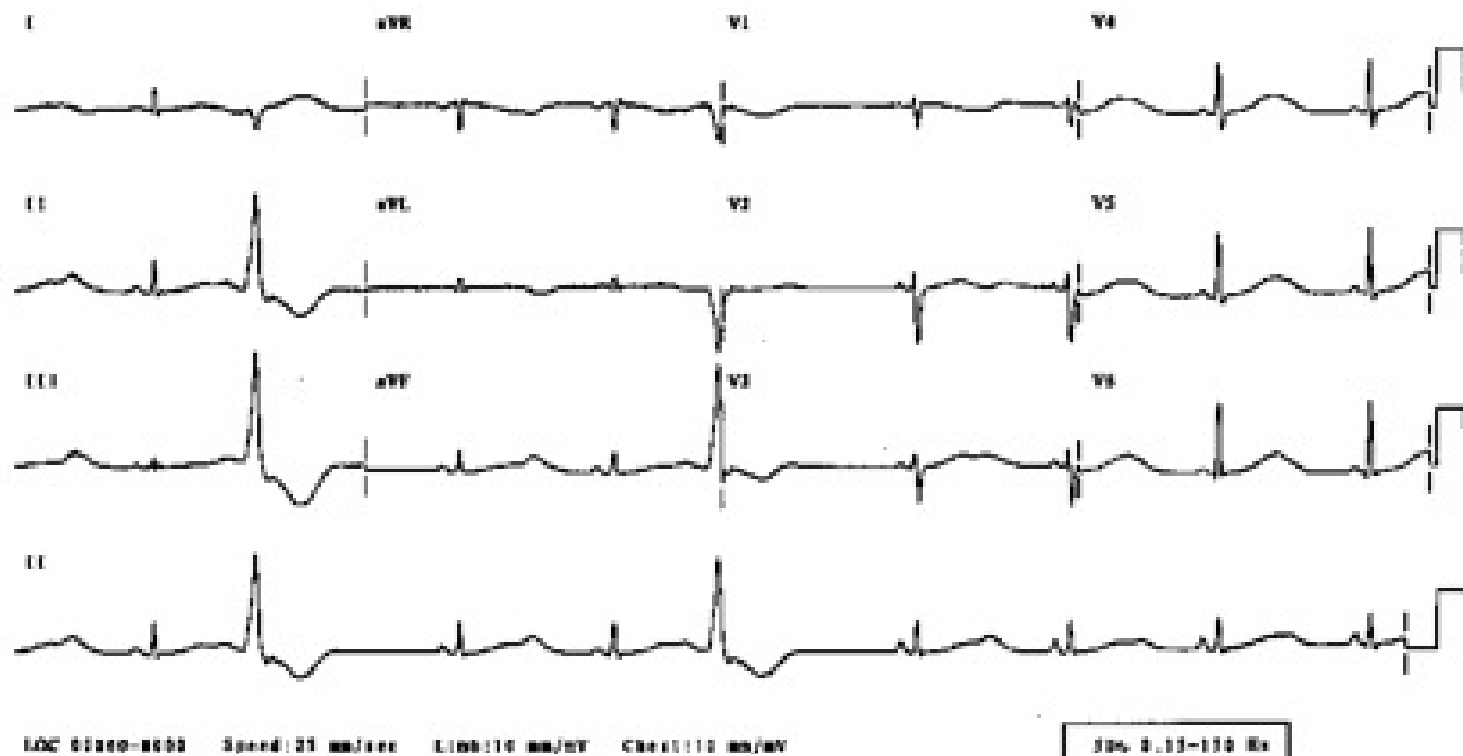
12-Leads



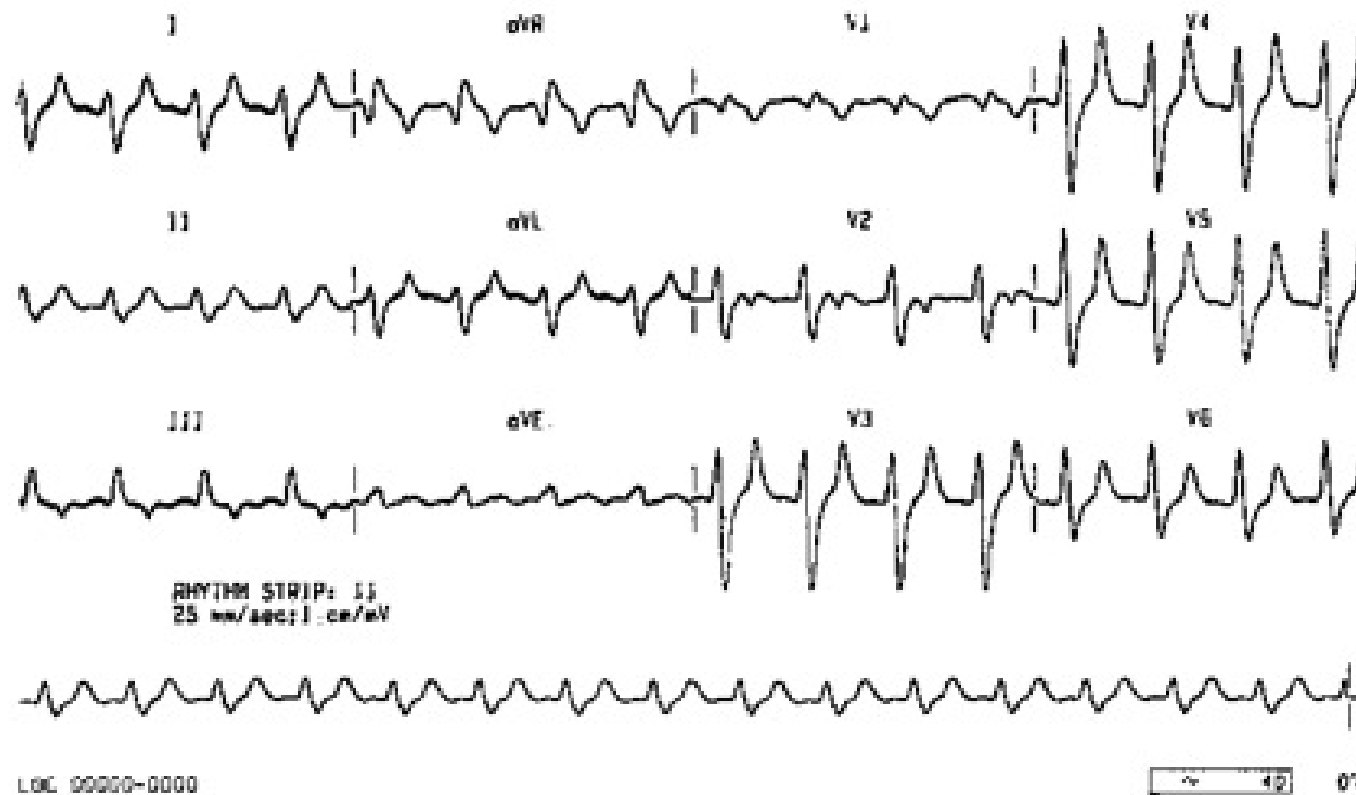
12-Leads



12-Leads



12-Leads



Scratching the Surface of Hemodynamics

- Heart is a 4 chamber pump.
 - Status of function determined by four factors
- Heart rate
- increase if contractility goes down
- Contractility
- disease will reduce contractility.
 - Decreased perfusion will cause vasoconstriction.
- Preload
- diastolic event.
 - Pressure exerted against walls of the ventricles at their fullest.). LVEDV = Left Ventricular Diastolic Pressure LVEDP.
 - PCWP measures LVEDV, so PCWP = LVEDP
 - hemodynamic monitoring measures pressures by proxy measures volume.
- Afterload (SVR)
- Resistance to overcome
 - higher the BP, the harder the heart has to work to eject blood.
 - less and less blood is ejected, which increases preload.