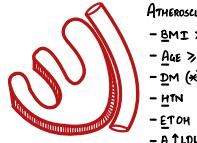
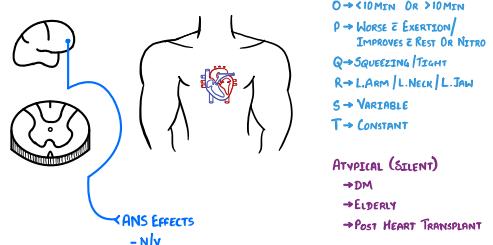


CAUSES & PATHOPHYSIOLOGY



- Atherosclerosis
 - BMI > 30
 - Age > 65
 - DM (+)
 - HTN
 - ETOH
 - A ↑ LDL + ↓ HDL
 - Relatives w/o CAD
 - Tobacco Use
- $\downarrow O_2$ SUPPLY
- $\uparrow O_2$ DEMAND

CLINICAL FEATURES & COMPLICATIONS



- O → 10 MIN OR 30 MIN
- P → Worse w/ Exertion / Improves w/ Rest or Nitro
- Q → Squeezing / Tight
- R → L. Arm / L. Neck / L. Jaw
- S → Variable
- T → Constant

- ATYPICAL (SILENT)
- DM
- ELDERLY
- Post Heart Transplant

STABLE ANGINA



- STABLE PLAQUE
- ISCHEMIA
- CP @ EXERTION

UNSTABLE ANGINA



- UNSTABLE PLAQUE
- ISCHEMIA \geq O₂ DEMAND
- CP @ REST

SUBENDOCARDIAL INFARCT



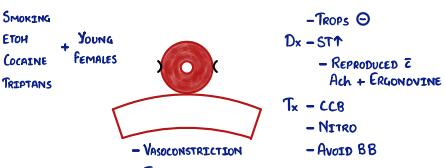
- UNSTABLE PLAQUE
- INFARCTION
- CP @ REST

TRANSMURAL INFARCT



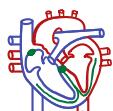
- UNSTABLE PLAQUE
- INFARCTION
- CP @ REST

PRINZMETAL'S (VASOSPASTIC) ANGINA

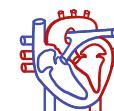


- SMOKING
- ETOH
- COCAINE + YOUNG FEMALES
- TRIPTANS
- TROPS \ominus
- Dx - ST↑
- REPRODUCED w/ Ach + Ergonovine
- Tx - CCB
- NITRO
- AVOID BB
- VASOCONSTRICITION
- ISCHEMIA

RIGHT VENTRICULAR MI



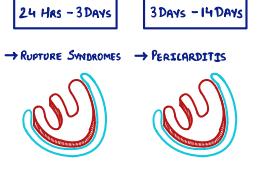
VS LEFT VENTRICULAR MI



0-24 HRS



24 HRS - 3 DAYS



3 DAYS - 14 DAYS



14 DAYS - MONTHS



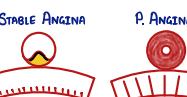
→ SCD

→ ACUTE HF



→ DRESSLER SYND.

DIAGNOSIS



- SUBENDOCARDIAL ISCHEMIA
- No ST ↑
- TROPS \ominus



- TRANSMURAL ISCHEMIA
- ST ↑ \oplus
- TROPS \oplus



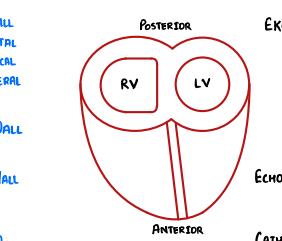
- SUBENDOCARDIAL ISCHEMIA
- ST ↓ + TWI
- TROPS \ominus



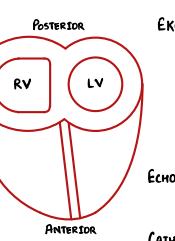
- SUBENDOCARDIAL INFARCT
- ST ↓ + TWI
- TROPS \oplus



- TRANSMURAL INFARCT
- ST ↑↑
- TROPS \oplus



EKG



ECHO



CATH

NSTE-ACS

- TIMI SCORE
- AGE $>$ 65
- MARKERS (TROPS)
- ECG (ST↓)
- RISK FACTORS (3+)
- ISCHEMIA (P x 2/24 HRS)
- CAD \geq 50% STENOSIS
- ASA USE
- 0-1 → RISK
- ≥ 2 → RISK

DIAGNOSTIC APPROACH

STABLE ANGINA

- ANGINAL CP? + AGE/GENDER
- SUBSTERNAL CP
- WORSE WITH EXERTION
- PRELOAD BY NITROGLYCERIN



EKG →

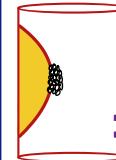
ECHO →

MPI →

TREATMENT

\downarrow THROMBOSIS

- ASPIRIN
- HEPARIN
- STATIN
- ACE-I
- P2Y₁₂-R INHIBITORS
- PRASUGREL
- CLOPIDOGREL
- TICAGRELOR



\downarrow O₂ DEMAND/ \uparrow O₂ SUPPLY

- NITROGLYCERIN
- MORPHINE
- BETA BLOCKERS
- OXYGEN

REVASCULARISATION

- PCI (\leq 1 yr)
- ANGIOPLASTY + STENT \leq 1 yr
- DAPT x 1 Yr
- CABG
- LCA STENOSIS
- $\geq 70\%$ LAD + 2-3 VESSEL DX
- SIX 2-3 VESSEL DX
- REFRACTORY TO MAX MEDICAL THERAPY
- THROMBOLYSIS (\leq 3 hrs)
- ALTEPLASE
- $\#$ USE WITH SUPERIORITY OF PCI

