Differential of Chest Pain

Myocardial Infarction

- ✓ Common
- ✓ Symptoms
 - Tight, heavy, crushing central chest pain
 - Nausea, vomiting, anxiety, sweating
 - Radiation to arms, jaw
- ✓ Signs
 - In pain, sweaty, tachycardia (may have signs of MI complications, e.g shock, heart failure) (But may have none)
- ✓ Investigation
 - ECG
 - Chest X-Ray
 - Cardiac Enzymes/troponin

<u>Angina</u>

- ✓ Very common
- ✓ Symptoms
 - Tight, heavy central chest pain.
 - Radiation to arms, jaw
 - Precipitated by exertion
 - Alleviated by rest, GTN
- ✓ Sign
 - May have none
- ✓ Investigation
 - ECG
 - Exercise test
 - Coronary angiogram
 - Troponin

Pulmonary Embolus

- Common
- ✓ Symptoms
 - Central or pleuritic chest pain
 - Sudden onset shortness of breath
 - Hemoptysis

Signs

- Tachycardia
- Tachypnea
- Raised JVP
- Hypotension
- Shock
- Pleural rub

✓ Investigation

- ECG
- Fibrin degradation products
- Chest X-Ray
- Blood Gases
- V/Q scan
- CTPA
- Troponin

Aortic Dissection

- Rare
 - Symptoms
 - Very sudden onset "tearing" chest pain or back pain
 - Collapse
 - Nausea, sweating, vomiting
- ✓ Signs
 - Hypertension
 - BP difference between arms
 - Absent pulses
 - Neurological deficits
- ✓ Investigation
 - Chest X-ray
 - ECG
 - CT Chest/MRI
- Echocardiogram www.cambodiamedl.blogspot.com

<u>Pericarditis</u>

- ✓ Rare
- Symptoms
 - Burning, aching or heavy chest pain
 - Relieved by sitting forwards
- ✓ May have pericardial rub
- ✓ Investigation
 - ECG
 - Echocardiogram

<u>Musculoskeletal</u>

- ✓ Very common
- ✓ Symptoms
 - Localized pain
 - Exacerbated or reproduced by movement, breathing, coughing
- ✓ Sign
 - Localized tenderness
- ✓ Investigation
 - Normal ECG
 - Chest X-ray

Dyspepsia/esophageal reflux

- ✓ Very common
- ✓ Symptoms
 - Central, epigastric, substernal sharp or burning pain
 - Can radiate to back
 - Relief with antacids
- ✓ Signs
 - Epigastric tenderness (or none)
- ✓ Investigation
 - Normal ECG
 - Chest X-ray

Pleurisy

- May be due to pneumonia, viral infections, malignancy, PE
- ✓ Common
- ✓ Symptoms
 - Sharp, localized, stabbing pain
 - Exacerbated by breathing, coughing, movement
 - Signs
 - Pleural rub
 - May have signs of consolidation
 - Fever
- ✓ Investigation
 - Chest X-ray