

Chest Pain Case

45 yo WM with 6 month history of intermittent, brief, self-resolving chest pain, now presents to the emergency room with a 2 hour history of severe, unrelenting mid sternal chest pain radiating over the precordium (portion of body over the heart). This is associated with diaphoresis, nausea but no vomiting, mild shortness of breath, no fever or chills.

PMH: HTN

PSH: R inguinal hernia repair
Appendectomy

SH: married, construction worker
Smokes 1 ppd (packs per day), moderate alcohol intake mostly on weekends, denies illicit drug use

Meds: Lisinopril

FH: CAD, GERD, PUD (Peptic Ulcer Disease)

ROS: HA after several hours of pain, no neuro complaints
No cough
No abdominal pain, change in bowel habit, constipation, diarrhea
No urinary complaints

PE: 45 yo WM, in acute distress, looks stated age

VS Afebrile, HR 97, BP 170/85

HEENT: (nl) normal, no JVD (Jugular Venous Distention) (describe!)

Lungs: clear and equal

CV: RRR (Regular rhythm and rate), No murmurs or gallops (describe!)

Abd: soft, nt (non-tender) , nd (non distended)

Ext: no deformity, edema, cyanosis

Neuro: GCS 15 (Glasgow Coma Scale), non-focal

Skin: clammy

Questions to be displayed on a keynote or powerpoint presentation: (15 plus title with names of group)

1. Give 3 possible differential diagnoses with an explanation of why the correct one is most likely. (one slide naming 3 and one slide why correct one is right)
2. What work-up is necessary? (labs, radiology, other tests?) (one slide naming items of work up and one for each part of the work-up, describing the work up)(Be thorough! If you list a blood test - then what is it for?)
3. What treatment options are there (outline 3)? (one slide to present the 3 - then one about each one) (included pharmaceuticals and procedures)
4. Present the normal anatomy and physiology of the heart and describe the flow of blood through the heart, pulmonic circulation and systemic circulation.
5. Outline the anatomy of the heart with blood supply TO the heart (not through the heart). (one -two slides; presentation will require clear understanding of material) Describe what is happening to this patient's heart.
6. What is the pathophysiology of coronary heart disease? (2 slides) How does it occur specifically? What are two types?
7. What are the risk factors for coronary heart disease? (one slide) How can we prevent?