

In The Name Of Merciful God Acute Coronary Syndrome (ACS) Master: Dr.Rasoul Raesi Presenter: Erfan Poorhang



Introduction

Acute coronary syndrome (ACS) is an emergency situation associated with the acute onset of ischemia. In general, the spectrum of ACS is divided into three parts:

- 1. Unstable angina (U.S.A)
- 2. NSTEMI
- 3. STEMI

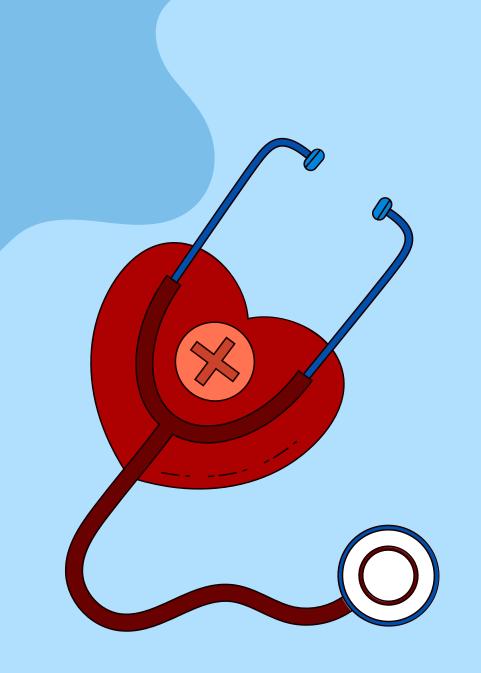
Pathophysiology



Pathophysiology

- 1. Atherosclerosis and platelet accumulation cause thrombosis and clogging of about 90% of arteries, which reduces myocardial tissue perfusion and tissue damage.
- 2. Coronary artery vasospasm.
- 3. Bleeding.
- 4. Increased oxygen demand (tachycardia, thyrotoxicosis and drug use.)

The mentioned cases cause chest pain and pre-MI symptoms.

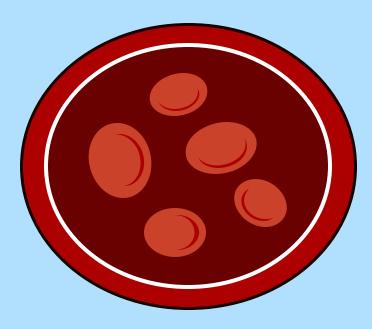


Clinical demonstrations

- Pain
- Paleness
- Respiratory distress
- Sweating
- Nausea
- anxiety

Examination and diagnosis

1.PMH2.ECG3.Biomarkers4.Eco cardiography5.Angiography

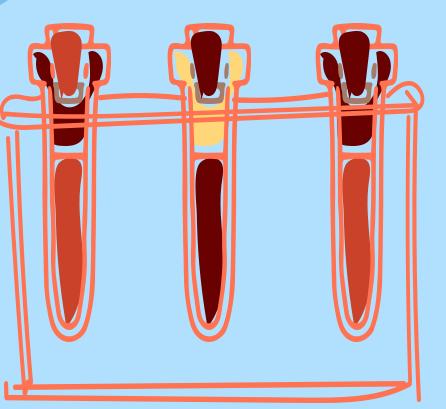




Examination and diagnosis ECG:

- Unstable angina :Inverted T wave or ST depression
- NSTEMI:Inverted T wave or ST depression
- STEMI:ST evaluation

Examination and diagnosis Biomarkers:



- U.S.A: Negative
- NSTEMI: positive
- STEMI: positive
- . Troponin (I and T) : less than 0/4 mg/ml
- 2. Creatine kinase (MB): compared to the total of 2.5-3
- 3. Myoglobin: < or =90 mcg/L



Examination and diagnosis Echo cardiography and Angiography:

Examination of weak movement or immobility of the myocardium. Viewing the inside of the artery with a catheter and removing the blockage.



Medical interventions

- CBR
- O2 therapy
- 300mg ASA
- 300mg Plavix
- 80 mg Atorvastatin
- Pirl TNG 3-5 minutes
- ACE Inhibitors
- Send the patient to the Cat Lab. (PCI)





Nursing process Diagnoses:

- Acute pain related to decreased myocardial tissue perfusion.
- Risk of cardiac dysfunction related to decreased coronary artery blood flow.
- The risk of reduced tissue blood supply and occurrence of cardiogenic shock associated with reduced cardiac output.
- Anxiety caused by heart pain.



Nursing process Interventions:

- Reducing oxygen demand and increasing oxygen supply.
- Patient positioning.
- Heart monitoring.
- Monitoring of vital signs.
- Emotional support.
- Patient education.

And if someone revives a person; It is as if he has revived all the people.

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