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## ECG in myocardial infraction - Clinical approach

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### **Abstract**

Ischemia occurs when part of the heart muscle, the myocardium, is deprived of oxygen and nutrients. Common causes of ischemia are:

- Narrowing or obstruction of a coronary artery.
- A rapid arrhythmia, causing an imbalance in supply and demand for energy.

A short period of ischemia causes reversible effects: The heart cells will be able to recover. When the episode of ischemia lasts for a longer period of time, heart muscle cells die. This is called a heart attack or myocardial infarction. That is why it is critical to recognize ischemia on the ECG in an early stage.

Signs and symptoms of myocardial ischemia:

- Crushing pain on the chest (angina pectoris), behind the sternum, often radiating to the lower jaw or the left arm
- · Fear of dying
- Nausea
- Shock (manifesting as paleness, low blood pressure, fast weak pulse) shock
- Rhythm disturbances (in particular, increasing prevalence of ventricular ectopia, ventricular tachycardia, AV block)

Diagnosis of MI on ECG:

- 1. The diagnosis of acute myocardial infarction is not only based on the ECG.
- 2. Elevated blood levels of cardiac enzymes (CKMB or Troponin T) AND
- 3. One of the following criteria is met: a. The patient has typical complaints,
- a.b. The ECG shows ST elevation or depression.
- b.c. pathological Q waves develop on the ECG
- c. d. A coronary intervention had been performed (such as stent placement)
- 4.So the detection of elevated serum cardiac enzymes is more important than ECG changes. However, the cardiac enzymes can only be detected in the serum 5-7 hours after the onset of the myocardial infarction. So, especially in the first few hours after the myocardial infarction, the ECG can be crucial.

## **Biography**

Furkan Khurshid is currently pursuing Bachelors in cardiac care technology from adesh medical University bathinda,

punjab . He has numerous international and national certifications.