



# Myocardial Infarction Registry

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# Outline

- Definition
- Signs and symptoms
- Causes and Risk Factors
- Diagnoses Tests for MI
- Treatment
- Myocardial Infarction Registry

# Myocardial Infarction

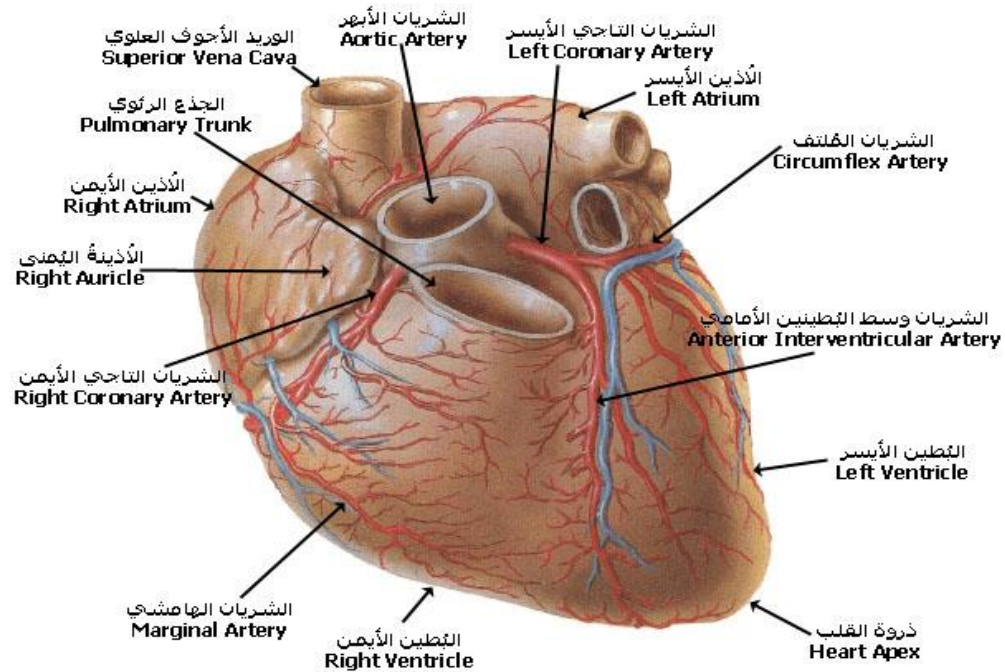
- **Myocardial infarction (MI)** (ie, heart attack) is the irreversible death (necrosis) of heart muscle secondary to prolonged lack of oxygen supply (ischemia). ( A Maziar Zafari)
- **Myocardial infarction (MI)**, commonly known as a **heart attack**, occurs when blood flow decreases or stops to a part of the heart, causing damage to the heart muscle.(National Heart, Lung, and Blood Institute (NHLBI) )

# Signs and symptoms

- Fatigue, Malaise.
- Chest discomfort (chest pain) which may travel into the shoulder, arm, back, neck, or jaw. the pain may occur in the center of the left side of the chest. The pain may feel like heartburn.
- Shortness of breath, nausea, feeling faint, a cold sweat, or feeling tired.

# Causes and Risk Factors

- Most MIs occur due to **coronary artery disease**. (NHLBI)



# Causes and Risk Factors

- The heart requires supply of oxygen and nutrients like any other muscle in the body. if one of the supply (coronary arteries that deliver oxygenated blood to the heart muscle ) becomes blocked suddenly, a portion of the heart is starved of oxygen, a condition called "cardiac ischemia" . If cardiac ischemia lasts too long, the starved heart tissue dies. This is called a heart attack (myocardial infarction) -- literally, "death of heart muscle". (WebMD)

# Causes and Risk Factors

- Risk factors include high blood pressure, smoking, diabetes, lack of exercise, obesity, high blood cholesterol, poor diet, and excessive alcohol intake, and others.

# Diagnoses Tests for MI

- A number of tests are useful to help with diagnosis, including electrocardiograms (ECGs), blood tests, and coronary angiography



# Treatment

- treatments attempt to restore blood flow to the heart, and include percutaneous coronary intervention (PCI), where the arteries are pushed open and may be stented, or thrombolysis, where the blockage is removed using medications.  
( European Society for Cardiology ESC)

# Myocardial Infarction Registry

	A	B	C	D	E	F	G	H	I	J	K
1										Myocardial Infarction	
2	Health facility ID	Patient National ID No.	Date	Age	Gender	Country	City	Family history	ECG	Prior treatment	Diabetes
3	H1	11997		19	M			Positive	Positive	No	yes
4	H2	21996		22	F			Negative	Positive	No	No
5	L1	21964		54	F			Negative	Positive	Yes	No
6	L2	11948		70	M			Positive	Positive	Yes	Yes
7	Cl1	11956		62	M			Positive	Positive	Yes	Yes

K	L	M	N	O	P	Q	R	S
Diabetes	Smoking	Hypertension	Obesity	Hyperlipidemia	Hypertriglyceridemia $\geq$ 150	HDL $<$ 40	LDL $>$ 200	Regular Exercise
yes	No	Yes	No	Yes	150	40	200	No
No	Yes	No	Yes	Yes	130	30	205	No
No	Yes	Yes	Yes	Yes	250	50	200	No
Yes	No	No	Yes	No	100	60	210	Yes
Yes	Yes	Yes	No	Yes	110	66	196	Yes



Thank  
You

A blue hanging tag with the words "Thank You" written in a white, bubbly, sans-serif font. The tag is suspended by a thin, light-colored string that loops through a small hole at the top. The tag has a slight shadow, giving it a 3D appearance. The background is a white rectangular area with a green border on the left and right sides. In the top right corner, there is a dark grey rectangular box.