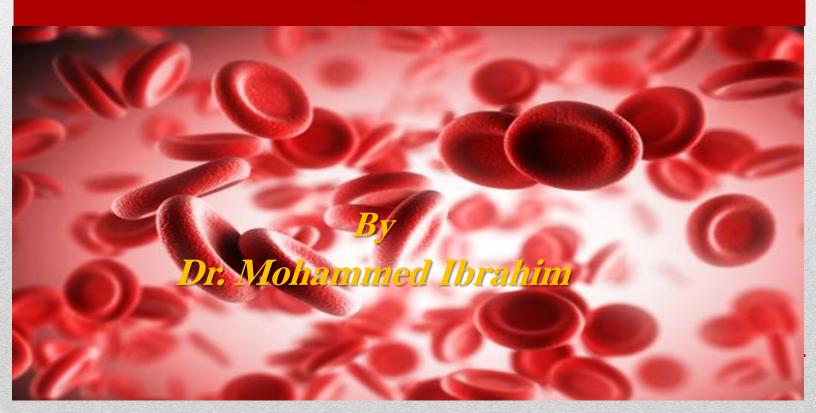
Medical terminology Cardiovacular system



The heart

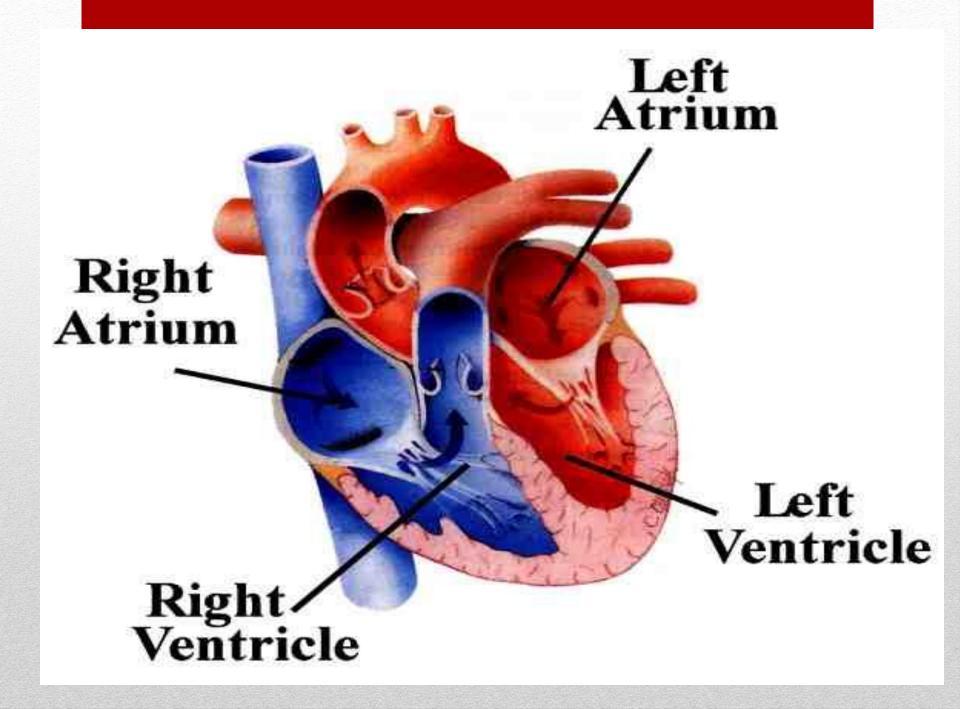
• Cardiology:

The study of the heart

The heart, which is part of the cardiovascular system, pumps blood to every cell in the body. That job is critical, because without the oxygen and nutrients that the blood delivers, body cells quickly die.

- The structure of the heart
- The heart is enclosed in three linings;
- · the epicardium,
- · the pericardium sac and
- · the pericardium.

 There are four chambers in the heart, called the right atrium(RA), the right ventricle(RV), the left atrium(LA), and the left ventricle(LV).

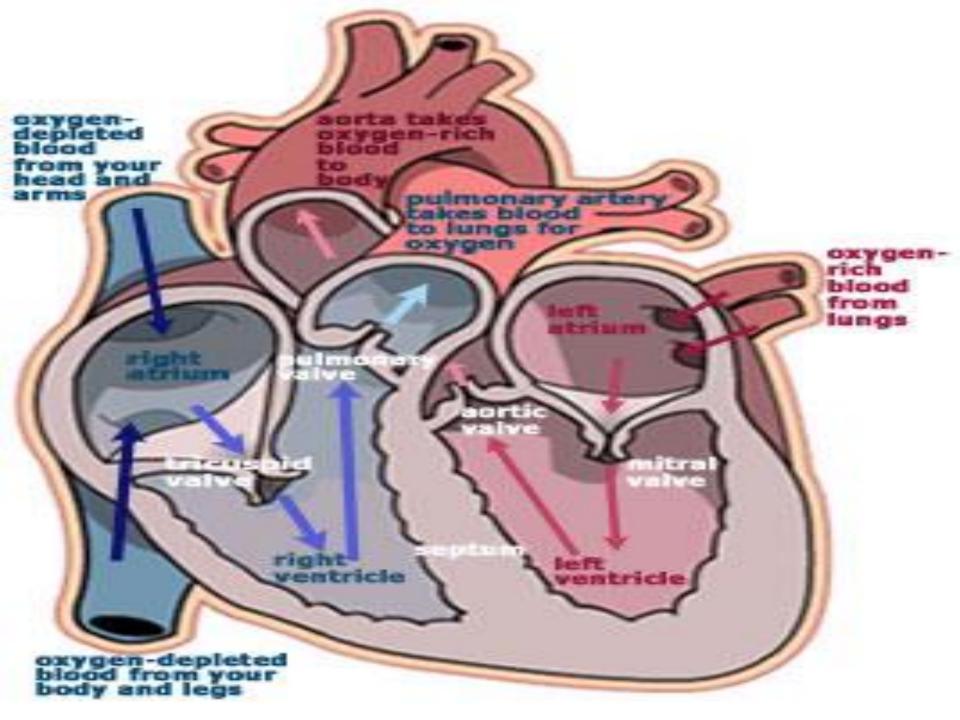


· The membrane forming the outer lining of the heart is called the epicardium, immediately beneath the epicardium is the myocardium, comprising the muscles, blood vessels, and nerve tissue that make up the bulk of the heart. The hearts inner surface is called the endocardium.

·Blood flow through the heart

· When the blood comes back to the heart after having delivered oxygen and other nutrients to the body cells, it re-inters the heart at the right atrium(RA).

- From there it moves into the *right* ventricle(RV), from which it is pumped into the lungs.
- After being recharged with oxygen, the blood moves back into the heart through the left atrium(LA) and into the left ventricle(LV), from which it is pumped out to the body.



Heart disorders and procedures

·Electrical impulses emitted within the heart stimulate the heart to pump. When the electrical system malfunctions, the heart will beat too fast, too slow, at an irregular pace, or not at all, depending on the nature of the malfunction.

Arrhythmia is most often defined as an irregular heart beat at any speed. When the heart pumps too fast, the condition is called tachycardia.

Also when the heart is pumping to slow the condition is called bradycardia.

 Tachycardia is also called tachyarrhythmia, and bradycardia is called bradyarrhythmia. ·Disorders of the heart are diagnosed and treated by cardiologists, who work in the field of cardiology.

term	analysis	meaning
atria	atrium	2 of the 4 heart chambers, composed of the right and the left atrium
Endocardium	Endo-(inside); cardium(heart)	The inner surface of the heart
Epicardium	Epi-(outside); cardium(heart)	The outer lining of the heart

term	analysis	meaning
Pericardium	Peri-(around); cardium(heart)	Serous Membrane lining the pericardial cavity
Atrioventricular valve Right Atrioventricular valve(tricuspid valve) left Atrioventricular valve(mitral valve)	Atri/o(atrium); ventricul(ventricle); -ar(adjectival suffix);valve	

term	analysis	meaning
Myocardium	My/o(muscle); cardium(heart)	The heart muscle
Intraventricular septum (IVS)		A separation (barrier) between 2 venricles of the heart

Common disorders

term	analysis	meaning
arrhythmia	The prefix a- (against); rhythm; -ia(condition)	Abnormal rhythm; irregular heart beat
Atriomegaly	Atrio (atrium); - megaly(enlargeme nt)	•
Cardiac arrest	Card/i(heart); arrst(stopped)	Cessation of the heart
Cardiomyopathy	Card/i/o(heart); my/o(muscle); - pathy(disease)	Disease of the heart muscle (myocardium)

term	analysis	meaning
Myocardial infarction (MI)	my/o(muscle); Card/i/o(heart)	Heart attack
Pericarditis	Peri-(around); Card/i (heart); - itis(inflammation)	Inflammation of the pericardium
Valvulitis	Valvul/o(valve); - itis(inflammation)	

Diagnostic and treatment

term	analysis	meaning
Electrocardiogr aph or electrocardiogr am(ECG)	(electric);	A graphic trace of heart functions
Ventriculoscopy	Ventriculo(vent ricle);- scopy(viewing)	Looking at the heart ventricle with an endoscope

Surgical procedures

term	analysis	meaning
Atrioseptoplasty	Atri/o(atrium); sept/o(barrier); - plasty(surgical repair)	surgical repair of an atrial septum
Cardiorrhaphy	Cardio(heart); - rrhaphy (suturing)	Suturing of the heart
Pericardiotomy	Peri-(around); cardio(heart); - tomy(cutting)	Incision into the pericardium

The troponin (a protein that is released into the bloodstream when a heart attack occurs) when it is higher than normal level is an indicator of MI.

Common Abbreviations

Abbreviation	Meaning
ACV	Acute
	cardiovasicular
	disease
CA	Cardiac arrest
CAD	coronary artery
	disease
CCU	Cardiovasicular
	care unit

Abbreviation	Meaning
CHD	Cardiovasicular
	Heart disease
CSU	Cardiovasicular
	surgery unit
CVICU	Cardiovasicular
	intensive care
	unit

The blood and blood vessels

Term	Meaning
Hemoglobin	The protein that gives the
	blood its red color
Erythrocytes	Red blood cells
Leukocytes	White blood cells
Platelets	A formed element found in
	the blood, which is
	important in the
	coagulation process
Immunoglobulin	The blood plasma proteins
	that are also known as
	antibodies

Term	Meaning
Artery	Carry blood away from the heart
Veins	Carry blood back to the heart
Capillary	The smallest but most numerous of the blood vessels, responsible for transferring nutrients directly to the cell

Term	Meaning
Arteriole	The smallest of the arteries, connecting with the capillaries
Superior vena cava (SVC)	A large venous vessel that drains blood from the upper body to be transported to the heart
Aorta	the largest blood vessel in the body, It starts and arches out at the left ventricle.

Term	Meaning
Angiostenosis	The narrowing of the blood vessel
Vasculopathy	Any disease of the blood vessels
Aneurysm	A bulge in any artery or a heart chamber
Angiography	Radiography of a blood vessel

Term	Meaning
High density	"good cholesterol"; picks
lipoprotein (HDL)	up dead cholesterol from
	the cells
low density	"bad cholesterol"; delivers
lipoprotein (LDL)	cholesterol to the cells
Arterioscelerosis	Hardening of the arteries
Hemorrhage	Discharge of blood
Hemophilia	Congenital disorder,
	causing excessive bleeding

