



جامعة المستقبل  
قسم تقنيات البصريات

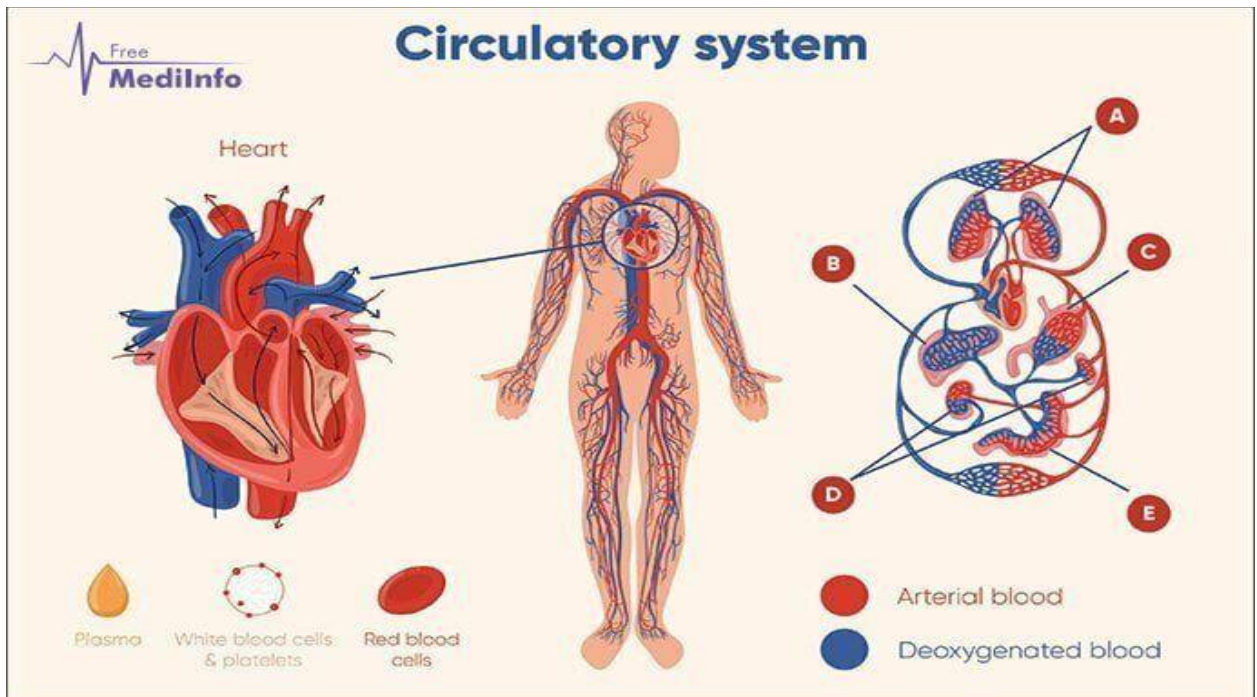
مشاكل العين بالامراض الباطنية و العصبية

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L1

## Circulatory disorders

- **circulatory system:** is the body's blood transport system.
- Also called as “cardiovascular system” The heart and blood vessels make up the circulatory system.
- The main function of the circulatory system is to provide oxygen, nutrients and hormones to muscles, tissues and organs throughout the body. Another part of the circulatory system is to remove waste from cells and organs so the body can dispose of it.



## Circulatory System

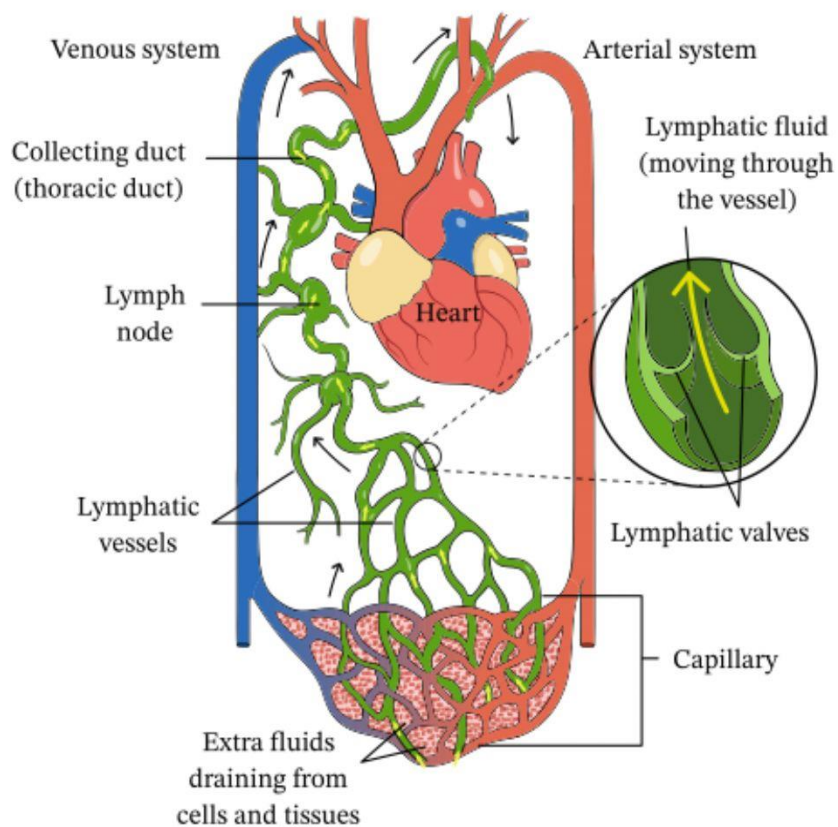
➤ The circulatory system is made up of :

- vessels
- muscles

That helps and controls the flow of the blood around the body, this process is called **circulation**.

➤ The main parts of the system are:

- Heart
- Blood
- vessels ( Arteries, Capillaries and Veins )
- Blood
- Lymph



## **- Functions of the cardiovascular system:**

The most important function of the circulatory system is transporting oxygen throughout the body. The other vital functions of the human circulatory system are as follows:

- Circulates Oxygen and removes Carbon Dioxide.
- Provides cells with nutrients.
- Protects the body against disease and infection.
- Clotting, stops bleeding after injury.
- Transports HORMONES to target cells and organs.
- Helps regulate body temperature.
- The substances present in the blood help repair the damaged tissue.

## Circulatory disorder

- A circulatory disorder is any disorder or condition that affects the circulatory system. It can occur because of problems with the **heart, blood vessels or the blood.**
- There are many circulatory disorders, including coronary
  - ❖ Artery disease.
  - ❖ Hypertension.
  - ❖ Stroke.
- Heart health affects all organs. Cardiovascular problems can reduce ocular blood flow and damage blood vessels from high blood pressure, **The following ocular changes can be an indication of heart disease:**
  - ❖ High blood pressure can damage retinal blood vessels.
  - ❖ Swelling around the optic nerve's base.
  - ❖ Cholesterol deposits in or around the eyes.
  - ❖ Vision loss can occur due to a sudden and brief constriction of the blood vessels.

