The Circulatory System

The hearty system

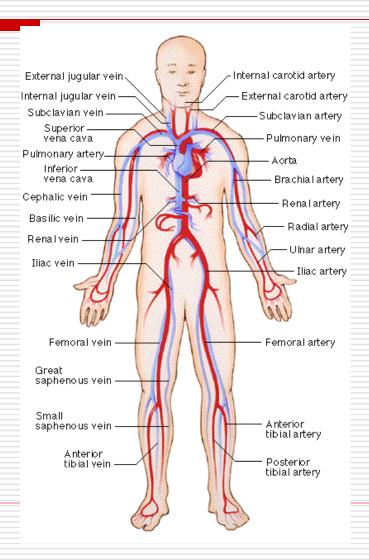
Facts

- Main function?
- Transport substances (gases, nutrients, wastes) around the body
- Other functions?
- ☐ Thermoregulation (body temperature)
- Disease fighting
- ☐ It is a closed system

Wild facts:

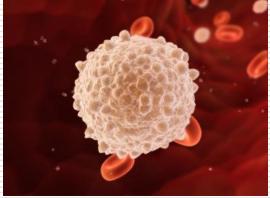
- Your heart beats 30 000 000 times per year
- Your heart pumps out about 19 000 litres of blood per day
- □ Your blood vessels stretched out in a line would go around the equator 2.5 times that's about 90 000 km.

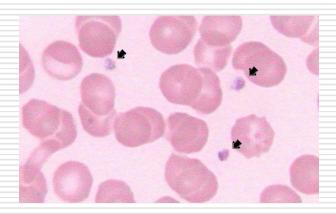
Three main components are the heart, blood, and blood vessels



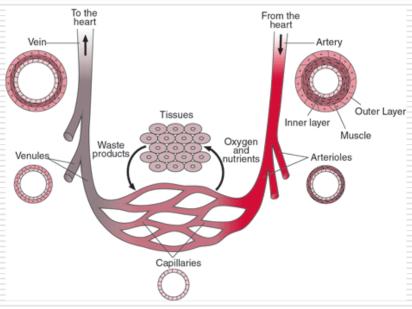
 Three types of blood cells are red blood cells, white blood cells, and platelets



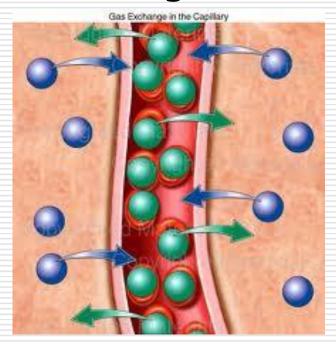




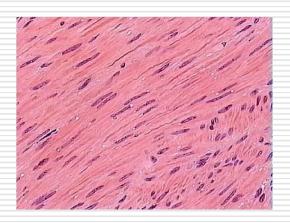
Three types of blood vessels form the circulatory network – arteries, veins, capillaries

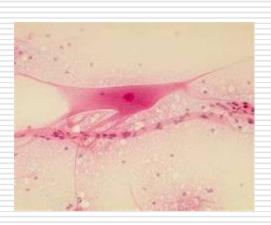


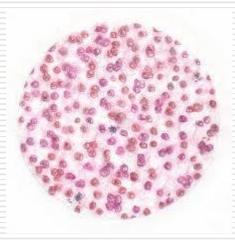
□ It is at the capillary level that nutrient and gas exchange takes place

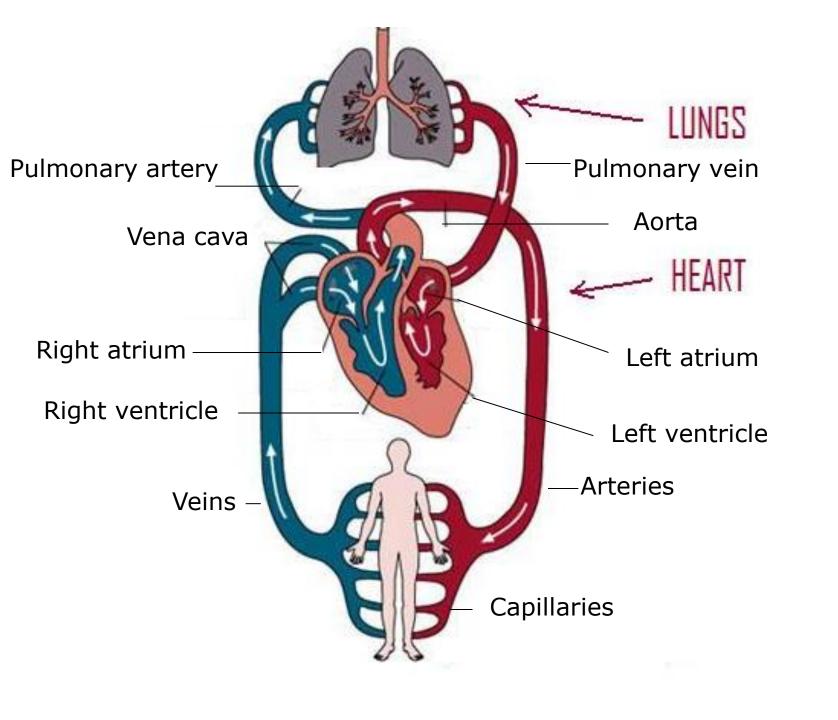


☐ Three types of tissues in the circulatory system are muscle, nerve, and connective (it is surrounded and lined by epithelial)





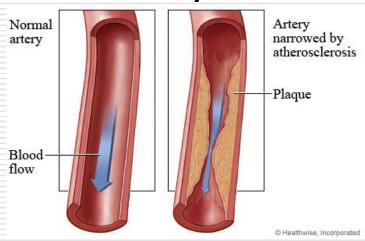


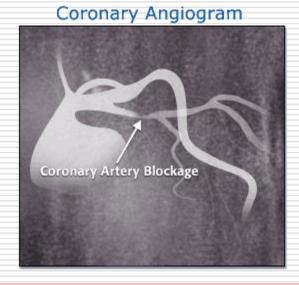


Diseases and Disorders

- □ Coronary Artery Disease (CAD)
- ☐ Heart Attack
- □ Both caused by blockage in the

coronary arteries





Blood Pressure & Heart Rate

- □ Two numbers
- Systolic pressure is the pressure in the arteries when the heart contracts
- □ Diastolic pressure is the pressure in the arteries when the heart relaxes
- What is yours?
- Today: Heart Rate Investigation!
- Homework: circulatory system handout