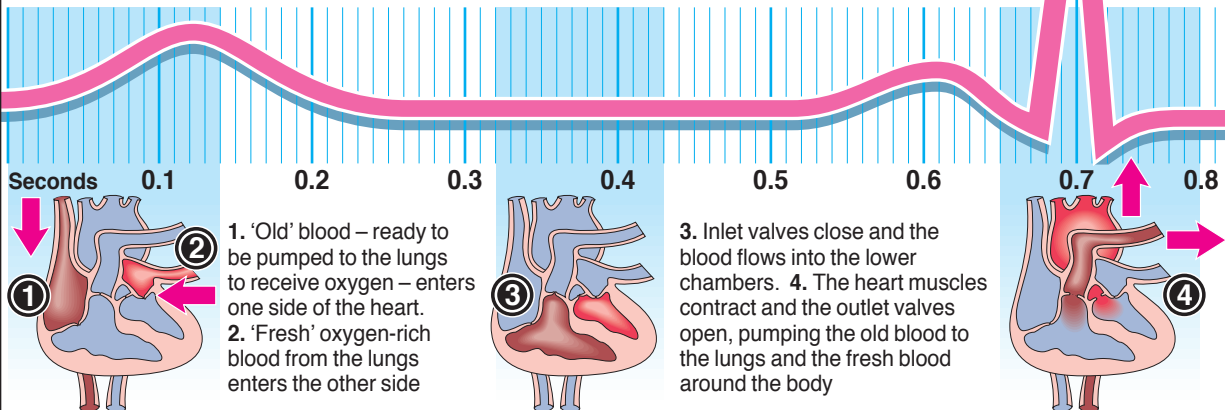


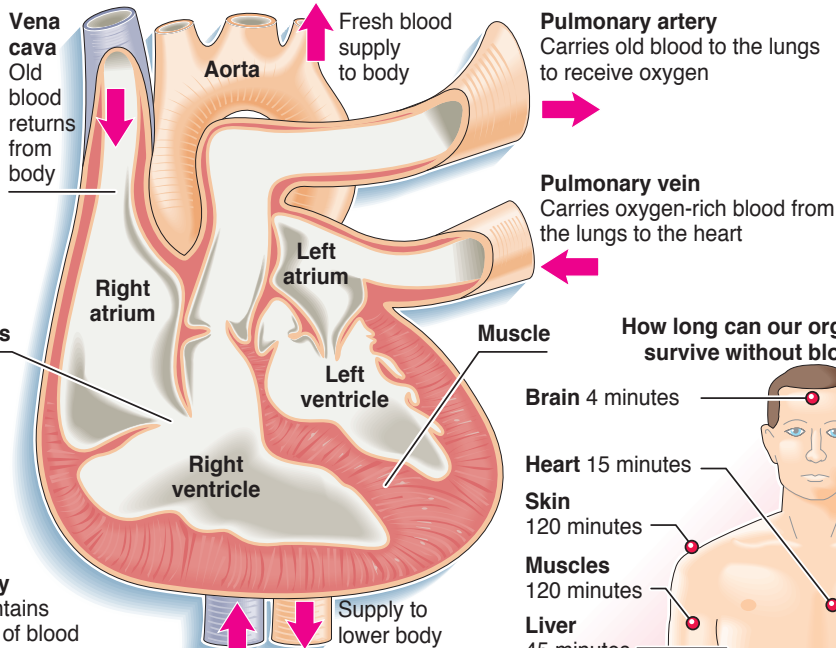
Anatomy of a heartbeat

Your heart is made up of two muscular pumps which circulate blood around the body. By your 70th birthday this fist-sized organ will have pumped more than 150 million litres of blood with 2,800,000,000 separate heartbeats. Each heartbeat pumps about half a tea cup full of blood in eight tenths of a second. This is what happens during those fleeting moments...



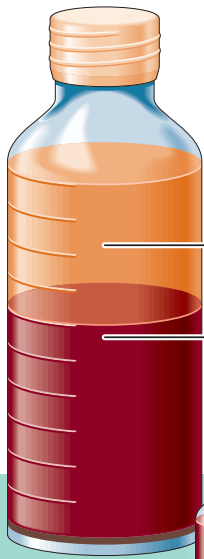
Components of blood

Blood can be separated into nearly 20 different components. Plasma contains proteins, hormones, minerals and fats; red cells carry oxygen, white cells fight infection and platelet cells stop bleeding



How long can our organs survive without blood?

- Brain** 4 minutes
- Heart** 15 minutes
- Skin** 120 minutes
- Muscles** 120 minutes
- Liver** 45 minutes
- Kidneys** 60 minutes
- Intestines** 190 minutes



Blood supply

The body contains about 5 litres of blood

