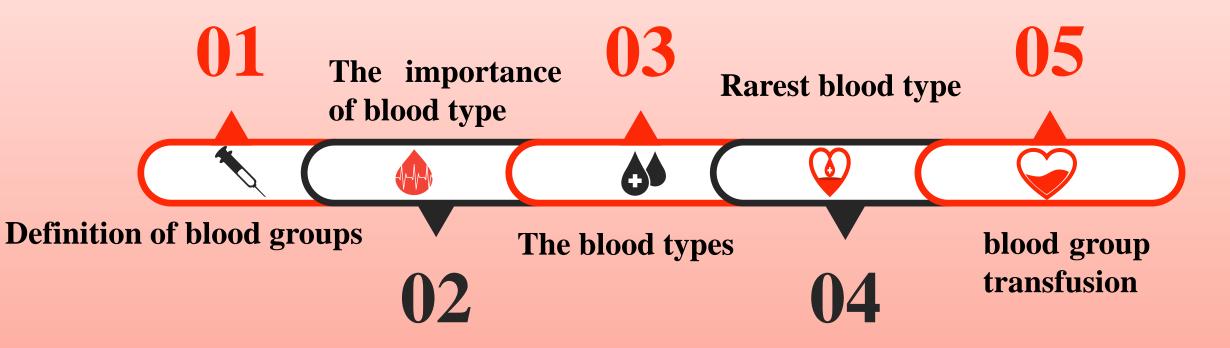


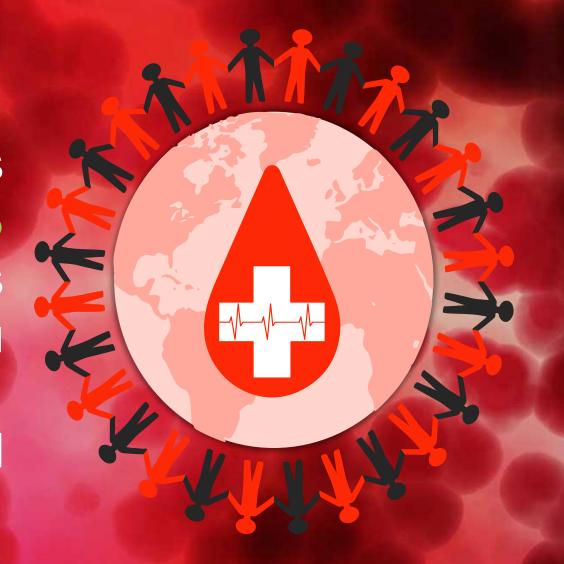
At the end of this presentation you will be able to:



Introduction

There are 4 main blood groups (types of blood) – A, B, AB and O. Your blood group is determined by the genes you inherit from your parents.

Blood groups were discovered by Karl Landsteiner in 1900

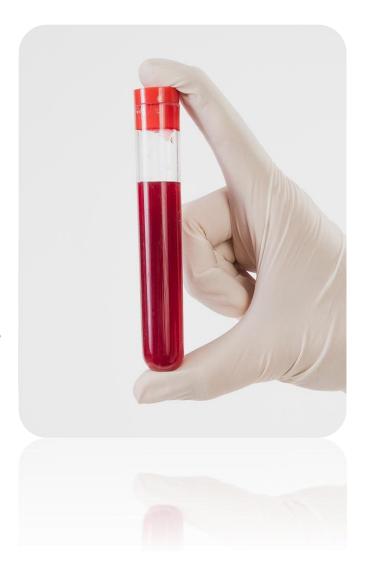


The importance of knowing your blood type



It is necessary to know your blood type.

- if you need a blood transfusion or
- plan to donate.
- The test is also done to see if you have a substance called Rh factor (Rh) on the surface of your red blood cells. Your blood type depends on the genes you inherit from your parents.





Your blood group is identified by antibodies and antigens in the blood

There are two systems for determining blood types:

- > The ABO system
- > The Rh system

The ABO system

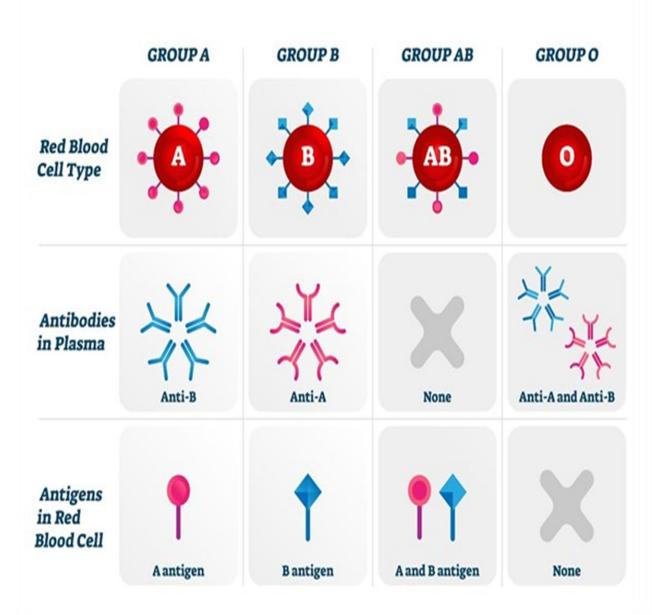
There are 4 main blood groups defined by the ABO system:

blood group A – has A antigens on the red blood cells with anti-B antibodies in the plasma

blood group B – has B antigens with anti-A antibodies in the plasma **blood group O** – has no antigens, but both anti-A and anti-B antibodies in the plasma

blood group AB – has both A and B antigens, but no antibodies

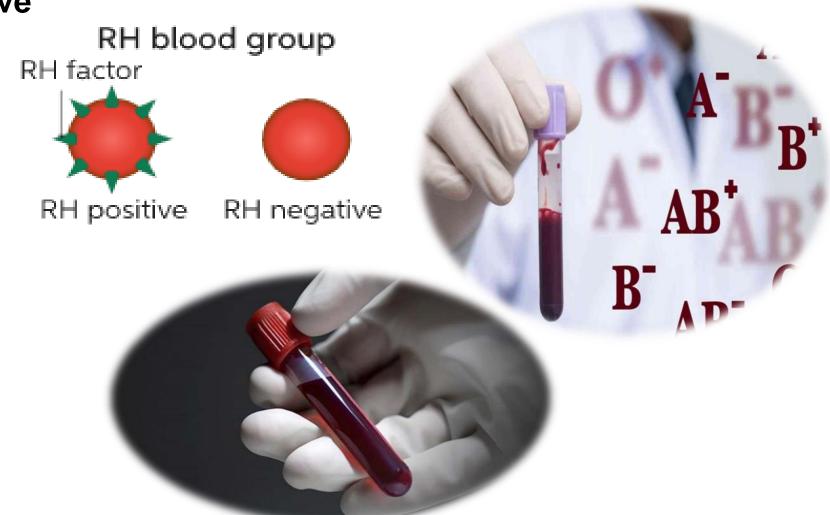
ABO BLOOD GROUP SYSTEM

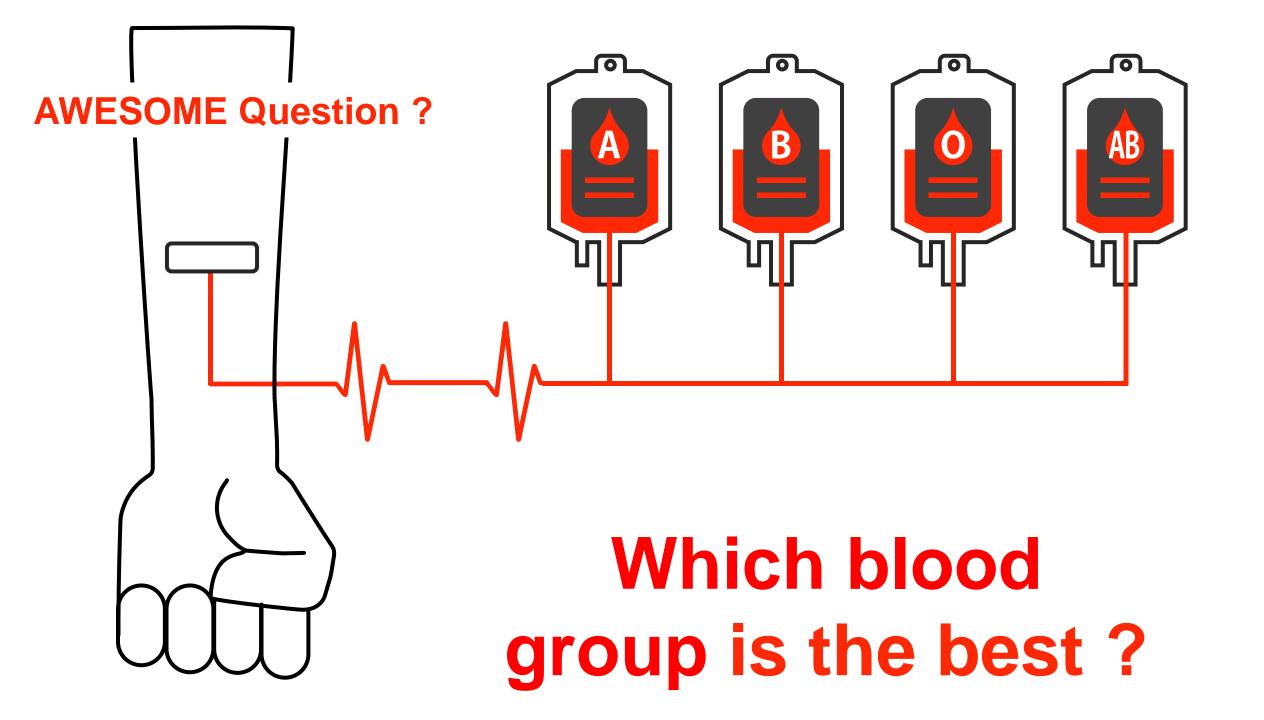


The Rh system

Red blood cells sometimes have another antigen, a protein known as the RhD antigen. If this is present, your blood group is RhD positive. If it's absent, your blood group is RhD negative

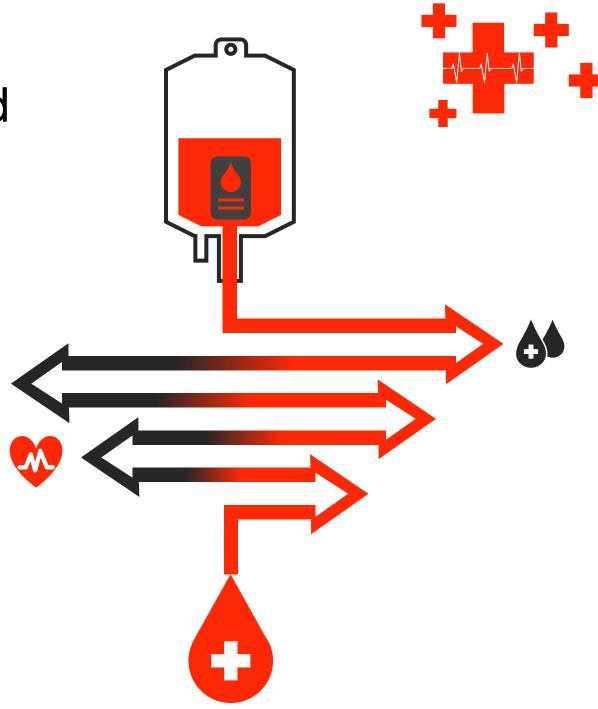
- A RhD positive (A+)
- A RhD negative (A-)
- B RhD positive (B+)
- B RhD negative (B-)
- O RhD positive (O+)
- O RhD negative (O-)
- AB RhD positive (AB+)
- AB RhD negative (AB-)

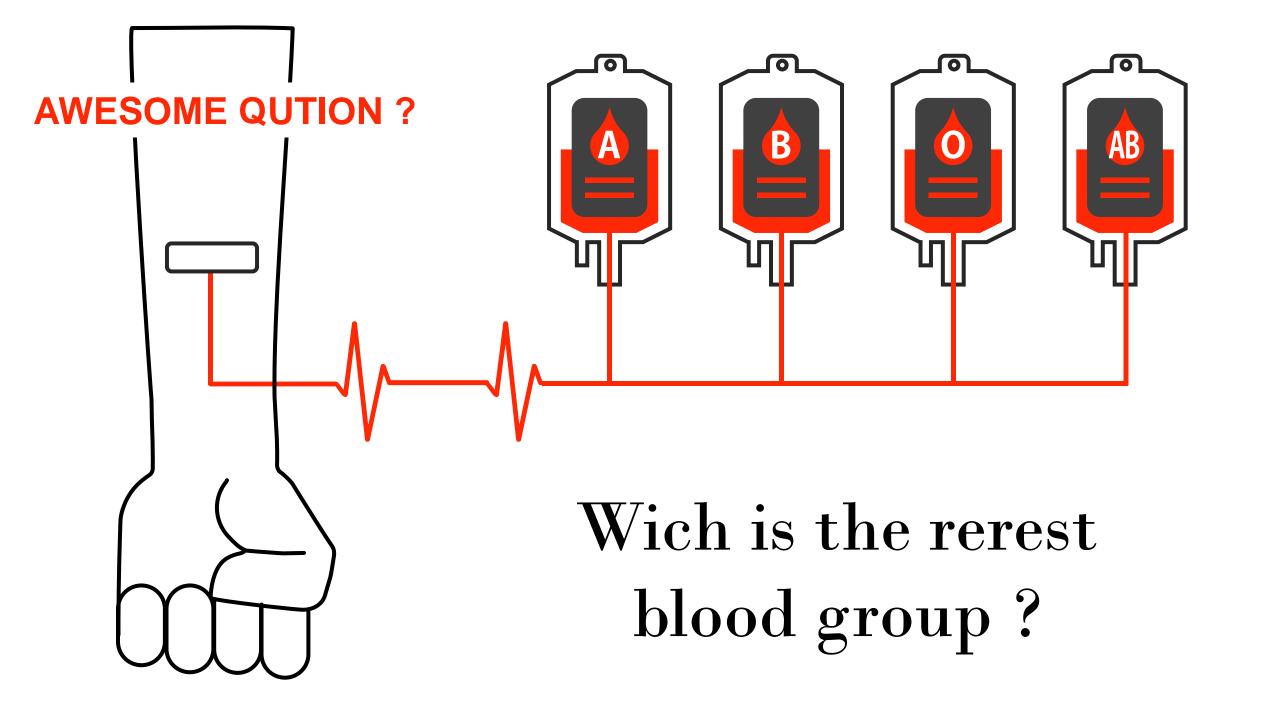




"The (O-) blood is the best blood type among all blood types in terms of blood donation."





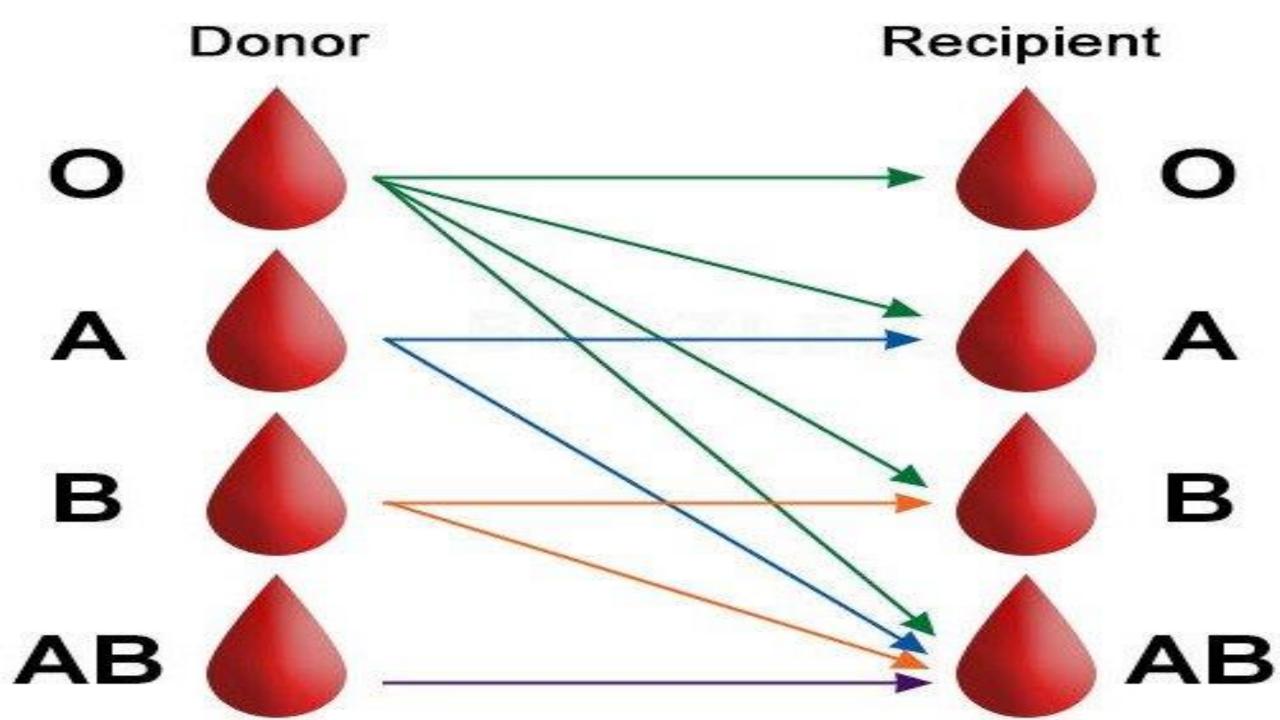


The blood type (AB-) negative is the rarest of the eight blood groups

Only 1% of people worldwide have this type.









Summary

blood group is identified by antibodies and antigens in the blood, were discovered by Karl Landsteiner in 1900, There are two systems for determining blood types

(ABO and RH) system, The ABO system There are 4 main blood groups defined by the ABO system:(A,B,AB, o groups),The Rh system is divided into(A+),(A-),(B+)(B-), (AB+),(AB-)),(O+)(O-), The best blood type is (AB-negative)

Reference



