April 29, 2019

- 1) Review Blood
- 2) Blood Types and Blood Disorders

Quiz on Blood and Blood Types next week!!

Warm - Up

The most common blood type in Canada is O positive (O+), about ______% of the population has it, which is why we have the greatest need for type O blood.

What is a Blood Type?

<u>Blood</u> type is a <u>genetic</u> characteristic associated with the presence or <u>absence</u> of certain molecules called <u>antigens</u>, on the surface of red blood cells.

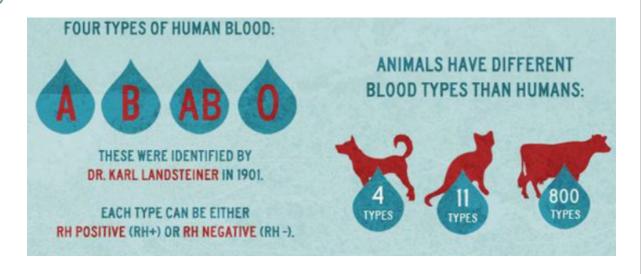
Blood Type is produced based on inherited genes and what proteins your body produces.

Blood type is <u>important</u> for medical reasons. If you need a <u>blood</u> transfusion you need to receive blood that is the same <u>type</u> as yours or it will <u>clot</u> in your bloodstream.



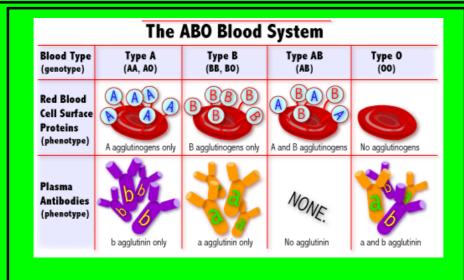
ABO Blood Typing System

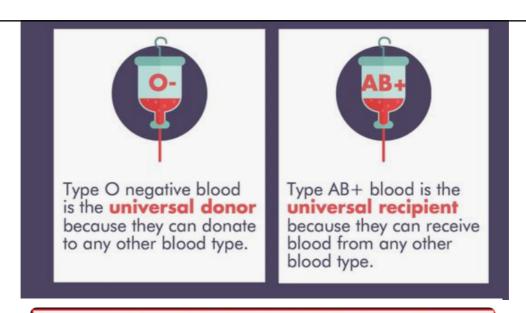
This is the system that is used to determine our blood type (just one of many blood factors). The blood proteins are A and B. The presence or absence of A and B proteins determines your blood type.

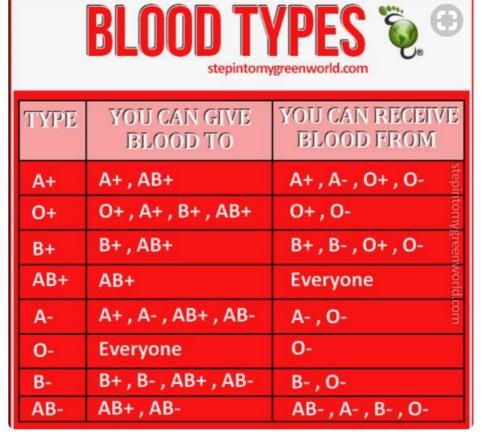


Blood Groups

There are eight types of blood. A (only antigen A), B (only antigen B), AB (both antigens), and O (no antigens). The protein marker found on the cell membrane identifies blood type. You can also be + or - for the Rh factor for each A,B,AB and O creating 8 blood types.







Donating Blood



You can donate blood, plasma or platelets

must be:

at least 17 years of age in general good health feel well on the day of donation meet the questionnaire requirements



Biology 113 blood vessel assignment.doc