## WHAT MAKES OUR BLOOD DIFFERENT FROM OTHERS?

# **BLOOD TYPES**

## **ABO SYSTEM BLOOD TYPES**

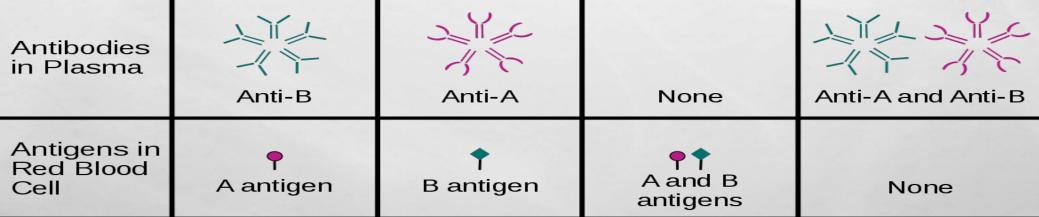
#### MICROSCOPIC MARKERS (ANTIGENS) MAKES ONE BLOOD TYPE DIFFER FROM ANOTHER

• OUR BODY USES ANTIGENS TO KNOW IF THE BLOOD CELL OURS OR NOT

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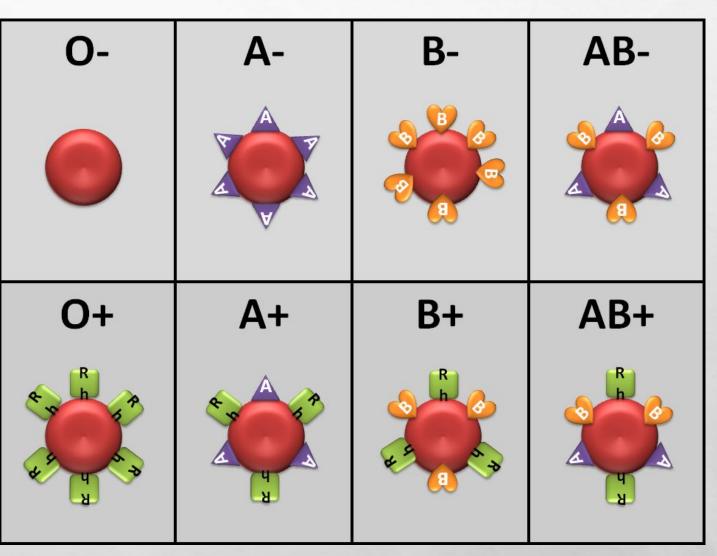
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## **RH FACTOR**

- SOME PEOPLE HAVE ANOTHER MARKER ON THEIR RED BLOOD CELL
- MARKER D OR RH FACTOR
- PEOPLE WHO HAVE THE RH FACTOR ARE <u>**RH-POSITIVE**</u>
- PEOPLE WHO DON'T HAVE THE RH FACTOR ARE <u>**RH-NEGATIVE**</u>

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## **BLOOD TRANSFUSION**

- IF A PATIENT WITH A BLOOD TYPE IS GIVEN B BLOOD TYPE, PATIENT IMMUNE SYSTEM WILL RECOGNIZE B BLOOD AS ENEMY, AND PRODUCE ANTIBODIES AGAINST B ANTIGENS
- THIS PROCESS CAUSES AGGLUTINATION OF RED BLOOD CELLS
- AGGLUTINATION CAN BLOCK BLOOD VESSELS, AND THIS LEADS TO ORGAN DAMAGE OR DEATH

### **RELATIONSHIPS BETWEEN BLOOD TYPES AND ANTIBODIES**

Blood Type	Antigens on Red Blood Cell	Can Donate Blood To	Antibodies in Cerum	Can Recieve Blood From
Α	A	A, AB	Anti-B	Α, Ο
В	В	B, AB	Anti-A	B, O
AB	A and B	AB	None	AB, O
0	None	A, B, AB, O	Anti-A and Anti-B	0

#### • WHAT IS THE UNIVERSAL DONOR OR RECIPIENT?

#### • WHY ITS SO DANGEROUS TO GIVE WRONG BLOOD TYPE TO APERSON?

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#### • WHAT IS YOUR BLOOD TYPE?

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