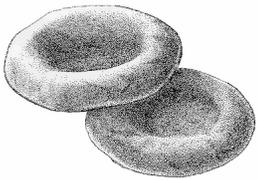


# BLOOD TYPING BOOKLET

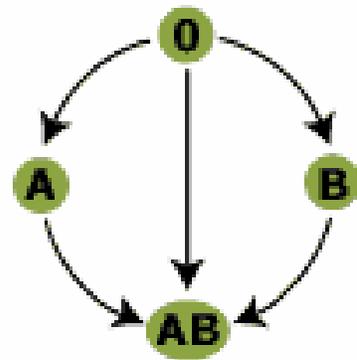


NAME: \_\_\_\_\_

**ANTIGEN:** molecule (protein) that stimulates an immune response  
ex: An allergen is a substance that causes the allergic reaction  
In blood typing, they are called agglutinogens

**ANTIBODY:** proteins that are found in blood or other bodily fluids of vertebrates, and are used by the immune system to identify and neutralize foreign objects, such as bacteria and viruses  
in blood typing, they are called agglutinins

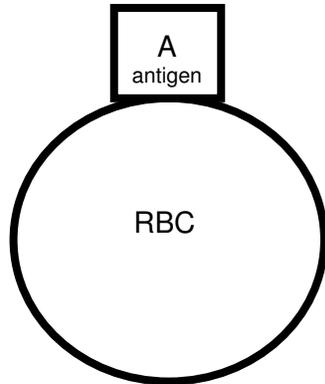
If an individual is exposed to a blood group antigen that is foreign, the immune system will produce antibodies that can specifically bind to that particular blood group antigen and cause clotting



People with blood group O are called "universal donors" and people with blood group AB are called "universal receivers."

## TYPE A Blood:

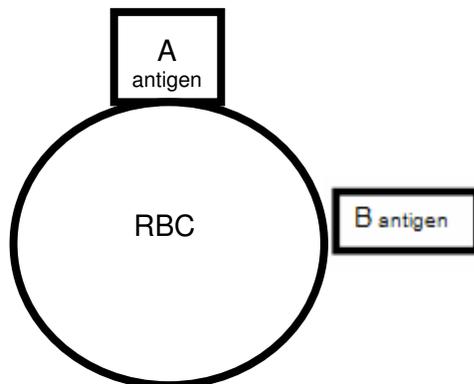
Has A antigens and will produce B antibodies



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## TYPE AB Blood:

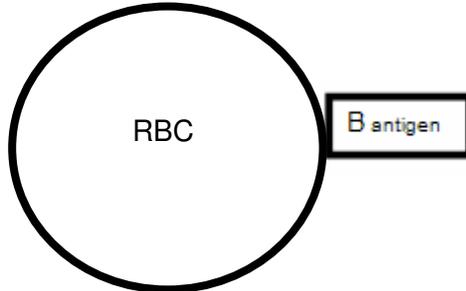
Has A & B antigens and will produce no antibodies



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## TYPE B Blood:

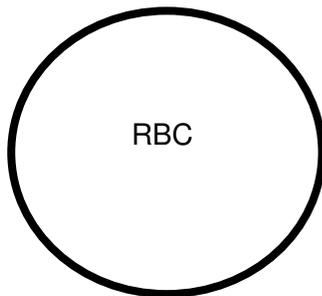
Has B antigens and will  
produce A antibodies



Page 2

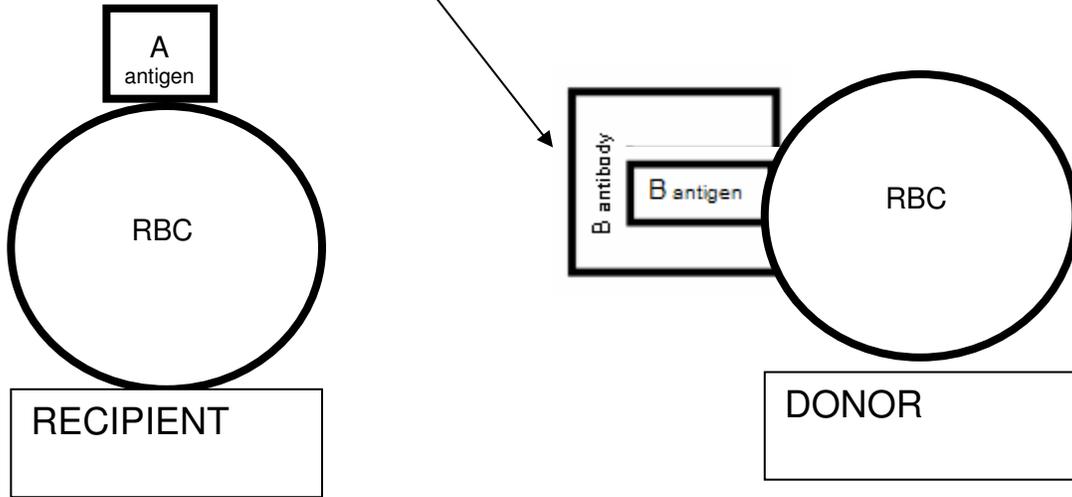
## TYPE O Blood:

Has no antigens and will  
produce A & B antibodies



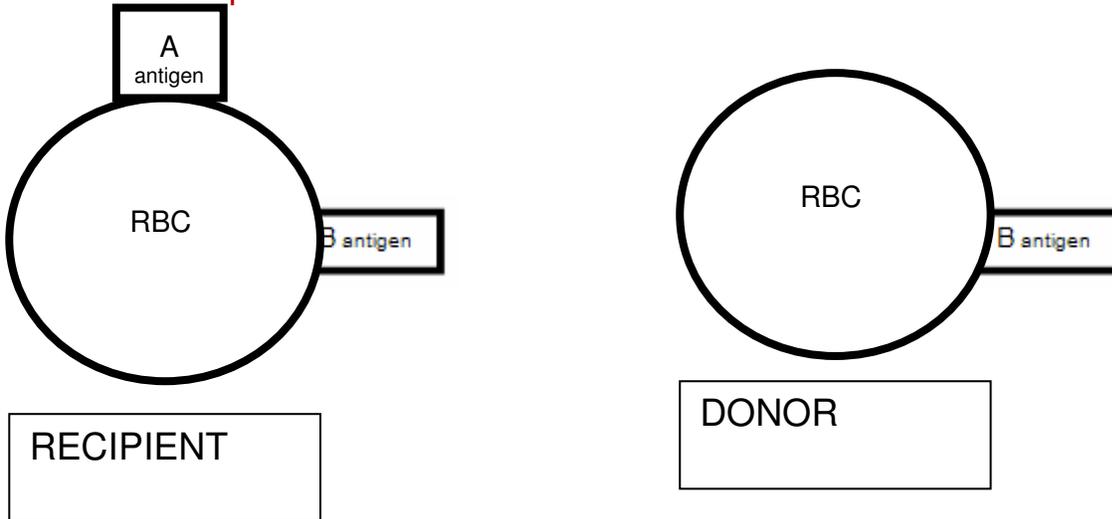
When a person with **A Blood** receives **B Blood** in a transfusion, what happens? **CLOTTING**

Here's a picture demonstrating why: **B antigens are foreign so recipient produces antibodies**



When a person with **AB Blood** receives **B Blood** in a transfusion, what happens? **NOTHING**

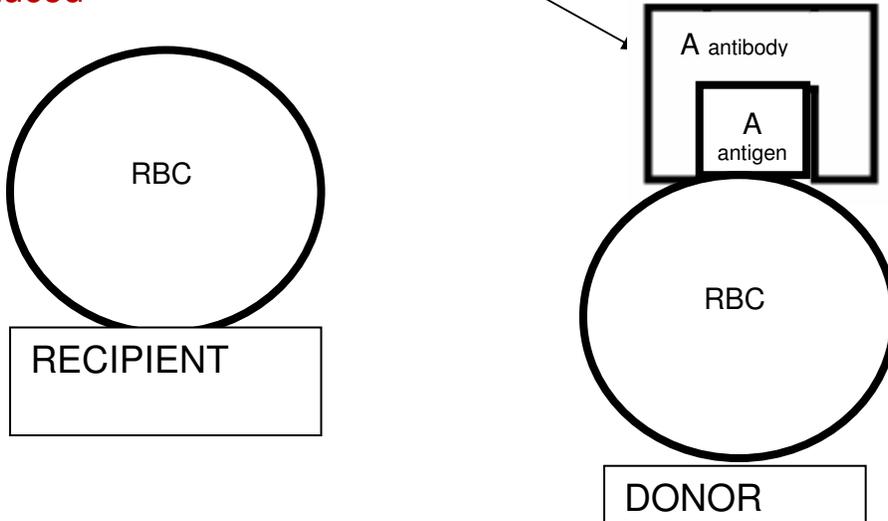
Here's a picture demonstrating why: **B antigens are not foreign so no antibodies are produced**



When a person with O Blood receives A Blood in a transfusion,

what happens? **CLOTTING**

Here's a picture demonstrating why: **A antigens are foreign so A antibodies are produced**

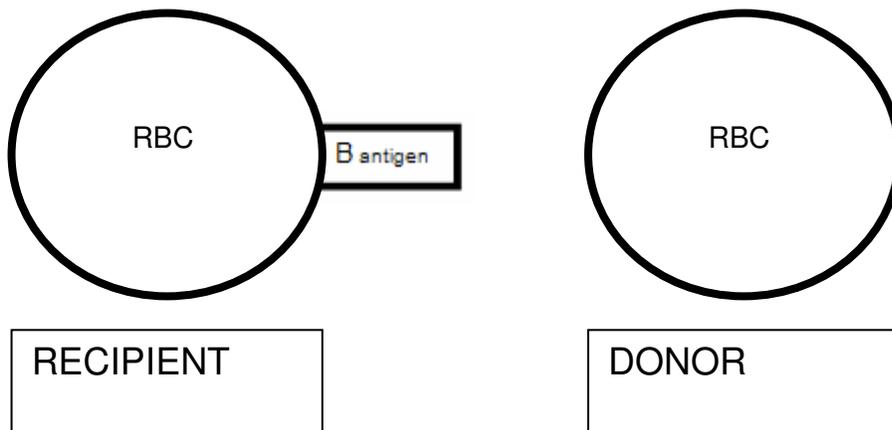


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When a person with B Blood receives O Blood in a transfusion,

what happens? **NOTHING**

Here's a picture demonstrating why: **O has no antigens so it is not bringing anything foreign**



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