

Blood Type Punnett Square Practice

There are four major blood groups determined by the presence or absence of two antigens (proteins) – A and B – on the surface of red blood cells:

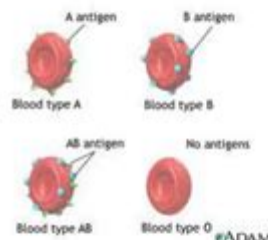
- Group A** – has only the A antigen on red cells (and B antibody in the plasma)
- Group B** – has only the B antigen on red cells (and A antibody in the plasma)
- Group AB** – has both A and B antigens on red cells (but neither A nor B antibody in the plasma)
- Group O** – has neither A nor B antigens on red cells (but both A and B antibody are in the plasma)

Since foreign antigens can trigger a patient's immune system to attack the transfused blood with antibodies, safe blood transfusions depend on careful blood typing and cross-matching.

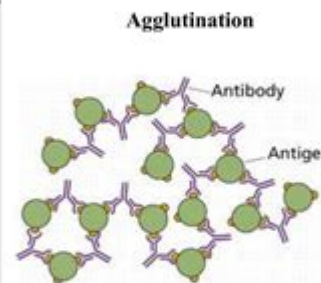
There are 3 alleles of the gene that controls blood type: I^A , I^B , i
 The I stands for immunoglobulin, or the type of white blood cell that would be triggered to attack.

I^A and I^B are Co-Dominant genes, meaning when inherited together, they are both fully expressed, not blended, as in Incomplete Dominance. " i " is the recessive form of the allele.

Possible genotypes are as follows:
 Genotypes Blood Type
 $I^A I^A$ or $I^A i$ A
 $I^B I^B$ or $I^B i$ B
 $I^A I^B$ AB
 ii O



Blood Type	Antigen (RBC membrane)	Antibody (plasma)	Can receive blood from	Can donate blood to
A (40%)	A antigen	Anti-B antibodies	A, O	A, AB
B (10%)	B antigen	Anti-A antibodies	B, O	B, AB
AB (4%)	A antigen, B antigen	No antibodies	A, B, AB, O	AB
O (46%)	No antigen	Both Anti-A and Anti-B antibodies	O	O, A, B, AB



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