

"Could a man with type B blood and a woman with type AB produce a child with type O blood?" why or why not? **NO** they could not produce a child with type O blood

- This is because the A and B alleles are codominant and will be expressed whenever either allele is present as opposed to the O alleles which can only be expressed in its homozygous state (OO)  
 - The parents can only produce a child with blood <sup>type</sup> group B, A or AB

♀	♀	A	B
B	AB	BB	
O	AO	BO	

♀	♀	A	B
B	AB	BB	
B	AB	BB	

What if the mother is type O<sup>+</sup> and the father is A<sup>-</sup>? what would the offspring's blood type be? why.

The possible offspring's blood type would either be blood type O<sup>-</sup> or A<sup>+</sup>, which will depend with the genotypes of father's blood group and the genotype of the mother's Rhesus factor.

If the mother of a child is blood type O<sup>+</sup> and the child is A<sup>-</sup>. what blood type would the father be? the blood type of the father would be A<sup>-</sup>

4 What if the blood type of the father of a son  
if the son and the mother are both type A+. The  
mother's brother is type O and the grandmother  
(mother of the mom) is A+  
the blood type of the father is O+

5 If the father has Type A blood and the daughter  
has Type O blood what are the possible genotype  
for blood type of the father and mother.

father genotype . AA AO

mother genotype AO OO