

## Rh Blood Group System

Sign to Blood  $\rightarrow$   $\oplus$   
 $\ominus$

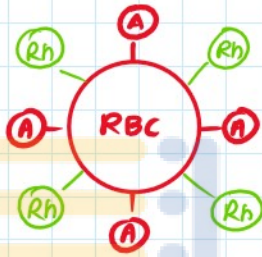
$A^+, A^-$ ,  $B^+, B^-$ ,  $AB^+$ ,  $AB^-$ ,  $O^+$ ,  $O^-$

Rh  $\rightarrow$  Rhesus Monkey

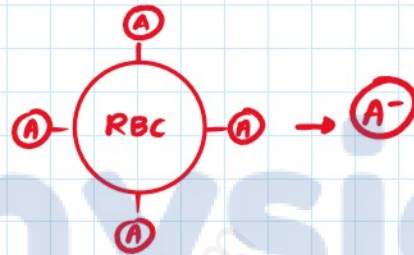
(Karl Landsteiner  $\rightarrow$  1930's)

Rh  $\rightarrow$  Present  $\oplus$

Rh  $\rightarrow$  Absent  $\ominus$



$A^+$



$A^-$

Rh Factor Regulating Genes  $\rightarrow$  C, D, E

D d  
 DD, Dd  $\rightarrow$  Rh<sup>+</sup>  
 dd  $\rightarrow$  Rh<sup>-</sup>

PHENOTYPE

Rh<sup>+</sup>  
 Rh<sup>-</sup>

FACTOR

✓  
 ✗

GENOTYPE

DD, Dd  
 dd

ANTI-BODIES

✗  
 ✓

DONATE

Rh<sup>+</sup>  
 Rh<sup>-</sup>, Rh<sup>+</sup>

RECEIVE

Rh<sup>+</sup>, Rh<sup>-</sup>  
 Rh<sup>-</sup>

### ERYTHRO-BLAST-OSIS FOETALIS

Foetus

Erythrocyte Formation Increased

Because of Rh factor incompatibility

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Stem Cell

Immature Erythroblasts (↑↑)

Erythroblast

"

"

"

Reticulocyte

Erythrocyte (RBC)

FATHER

MOTHER

Rh<sup>+</sup>

Rh<sup>-</sup>

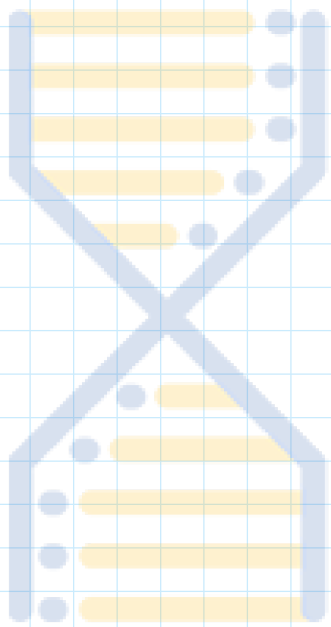
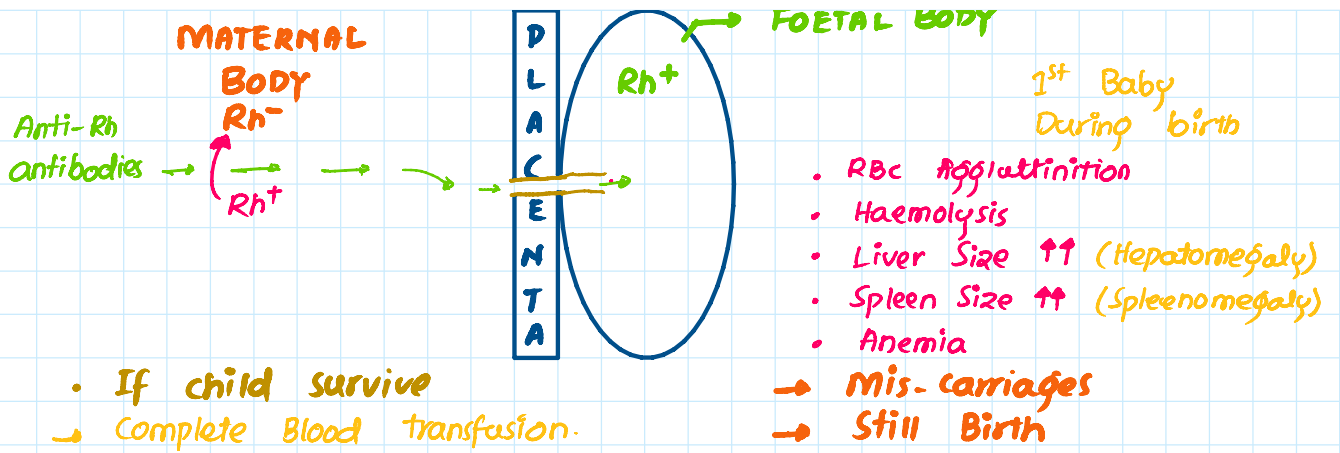
DD ✓  $\rightarrow$  Dd  
 100% child will be Rh<sup>+</sup>  
 50% Rh<sup>+</sup>  
 50% Rh<sup>-</sup>

MATERNAL BODY



FOETAL BODY

1<sup>st</sup> Baby



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