

Genetics Problems

1. Suppose a father of blood type B and a mother of blood type B have a child of type O. What are the genotypes of the parents and child?
 (Specify all the mother's and father's)

Answer: $I^B i$; $I^B i$

2. Suppose a father of blood type B and a mother of blood type B have a child of type O. What are the chances that their next child will be blood type O? Type B? Type A? Type AB?

Answers: $1/4$ or 25% ; $1/2$ or 50% ; $1/4$ or 25% ; $0/0$

3. Why is blood type inheritance an example of both codominance and complete dominance?

Answer: A and B are codominant - they are expressed equally in the phenotype when present in a cell together ($I^A I^B$). And both alleles are B and dominant over allele O, which is present in the heterozygous phenotype ($I^B i$ or $I^A i$)

4. Sickle-cell anemia is a condition in which the structural unit of an individual's hemoglobin differs from the other (Hb^A). The change prevents the red blood cells from moving easily through blood vessels. It is caused by the sickle cell mutation, which blood type and causing pain, infection, and organ damage. This shows that, because sickle-cell anemia is autosomal recessive (eg. and the dominant allele can be represented by A)

(a) For the following families, determine the genotypes of the parents and offspring. When it is not possible to decide which genotype an individual is that has:

(i) Two normal parents have four normal children and two with sickle cell anemia.
 Parents: $Hb^A Hb^A$; $Hb^A Hb^A$; Offspring: either $Hb^A Hb^A$ or $Hb^A Hb^S$; $Hb^A Hb^S$

(ii) A normal male and a female with sickle-cell anemia have six children, all normal.
 Parents: $Hb^A Hb^A$; $Hb^A Hb^S$; Offspring: $Hb^A Hb^A$; $Hb^A Hb^S$; $Hb^A Hb^S$; $Hb^A Hb^S$; $Hb^A Hb^S$; $Hb^A Hb^S$

(iii) A normal male and a female with sickle-cell anemia have six children. Three are normal, and three have sickle-cell anemia.

Parents: $Hb^A Hb^A$; $Hb^A Hb^S$; Offspring: either $Hb^A Hb^A$ or $Hb^A Hb^S$; $Hb^A Hb^S$; $Hb^A Hb^S$; $Hb^A Hb^S$; $Hb^A Hb^S$; $Hb^A Hb^S$

(iv) Sickle-cell is pedigree chart for the families in (i) and (ii).



Genetic Problems Answers

SJ Ball



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