

Investigation: A Human Pedigree

Introduction: A sex-linked characteristic is determined by an allele that is carried only on the X chromosome. The shorter Y chromosome does not carry an allele for a sex-linked trait. Most sex-linked traits are recessive. Since there is only one X in his genotype, XY, a male who carries a particular recessive allele on the X chromosome will have the sex-linked condition. A female who carries a recessive allele in one X chromosome will not show the condition if there is a dominant allele on her other X chromosome. She will express the recessive condition only if she inherits two recessive alleles—one from each parent. Her chances of inheriting the condition are thus greatly reduced.

One sex-linked trait is hemophilia, a condition in which the blood does not clot properly. Most people who have hemophilia are men. In this investigation you will determine why this is so.

Procedure:

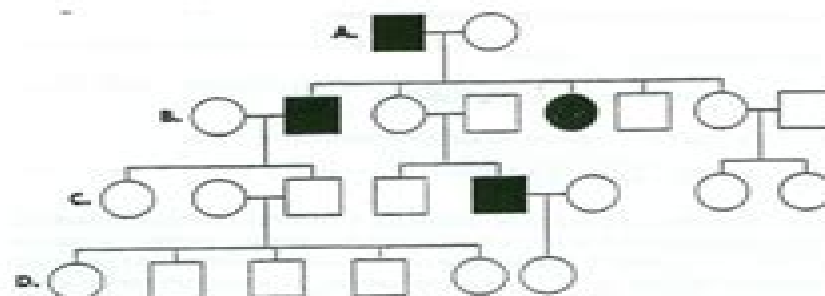


Figure A

1. Study the pedigree for hemophilia shown in Figure A. In a pedigree, a square represents a male. If it is darkened, he has hemophilia; if it is clear, he has normal blood clotting. How many males represented in Figure A have hemophilia? How many males are normal?
2. A circle represents a female. If it is darkened, she has hemophilia; if clear, she is normal. How many females in Figure A have hemophilia? How many are normal?
3. A marriage is indicated by a horizontal line connecting a circle to a square. How many marriages are indicated in Figure A?
4. A line perpendicular to a marriage line indicates offspring. If the line ends with either a circle or square, the couple had only one child. However, if the line is connected to another horizontal line, then several children were produced, each indicated by a short vertical line connected to the horizontal line. The first child appears to the left and the last child to the right. How many children did the first couple have?
5. Level B represents the second generation. Level C represents the third generation, and so on. How many generations are represented in Figure A?
6. The genotypes of the males in a pedigree for sex-linked inheritance are easy to determine since normal clotting (N) is dominant and hemophilia is recessive (n). Since these alleles are on the X chromosome only, a male represented by a clear square will have the genotype $X^N Y$. One represented by a darkened square will be $X^n Y$. Label the genotypes of all the squares. How many

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