

Pedigrees

GLE 0707.4.3

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SPI 0707.4.3

Pedigrees - following a trait through the generations

Slide 1 - Circle represents female

Square male

Slide 2 - Mother has sickle cell anemia (affected)

Father does not (unaffected)

Mother gives an affected allele and the Father gives an unaffected allele

Offspring all get the allele but are not affected.

* If the offspring have the trait but are not affected which trait is dominant? (Unaffected) How do we know this? (The offspring is not affected even though they have the trait. The affected trait is covered up.)

Affected male and affected female have offspring.

One offspring has sickle cell anemia

Two are carriers but unaffected

One is completely unaffected

* Explain how this is possible.

* What does being a carrier mean?