

SBI 3C: INHERITED DISEASES

CATEGORIES:

- ▶ Genetic disorders can be caused by _____ or _____
- ▶ Inherited disorders are caused by a _____ passed from _____ to _____
- ▶ Inherited disorders can be:
 - ▶ _____
 - ▶ _____
 - ▶ _____

INHERITED DISORDERS:

- ▶ If one parent has the _____ gene disorder, there is a _____ chance that it will be passed to each _____
- ▶ Examples:
 - ▶ _____:
 - ▶ An inherited _____ that causes loss of control of movements and _____, usually starts around _____ years old
 - ▶ _____:
 - ▶ _____

RECESSIVE DISORDERS:

- ▶ _____ parents must carry the _____ for the disorder
- ▶ If you have a _____ gene for a _____, you are a _____
 - ▶ You may show _____ but you can still _____ it on to your children
- ▶ If _____ parents carry the _____ gene:
 - ▶ _____ chance that a child they have will have disorder
 - ▶ _____ chance that their child will be a _____
 - ▶ _____ chance that a child will not get the gene at all

EXAMPLES OF RECESSIVE DISORDERS:

- ▶ _____:
 - ▶ Red blood cells have _____ shape
 - ▶ Causes _____ and pain, most often in African Americans
- ▶ _____:
 - ▶ Causes _____, blindness, seizures, and _____ usually by age 5
 - ▶ Most often seen in people of eastern European Jewish descent, French Canadians, and Cajuns
- ▶ _____:
 - ▶ Causes problems in _____ and _____
 - ▶ Occurs mostly in people of Northern European descent

X-LINKED/SEX-LINKED DISORDERS

- ▶ Disorders caused by genes on the _____
- ▶ Usually abnormal gene is _____
- ▶ Generally seen in _____:
 - ▶ _____ have 2 copies of X, therefore, one _____ X chromosome
 - ▶ _____ have one X chromosome, therefore, no dominant gene to _____ recessive gene
- ▶ If a _____ has an X-linked disorder, her mother was a _____, her father had the _____
- ▶ If you are a _____, _____ chance a _____ will have the disorder and a _____ will be a carrier

EXAMPLES OF X-LINKED/SEX-LINKED DISORDERS:

- ▶ _____:
 - ▶ Most often affecting _____
 - ▶ _____
 - ▶ Death by around _____
- ▶ _____:
 - ▶ Most common cause of _____
 - ▶ Piece of X chromosome is _____

HEMOPHILIA:

- ▶ Blood lacks the _____ needed to _____
- ▶ Known as the “_____” because it appeared in the _____ of Great Britain's Queen Victoria

PEDIGREES:

- ▶ A type of _____ that shows _____ of _____ within a _____
- ▶ Generally constructed after an _____ has appeared in a family, helps to determine if:
 - ▶ _____
 - ▶ _____
 - ▶ _____

