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| --- | --- | --- |
| **DESCRIPTION OF DISORDER** | **DISORDER NAME** | **CAUSE** |
| **Brain deteriorates starting about age 30-40;**  **Lose ability to walk, talk, think → early death;**  **Caused by extra CAG repeats in the code** |  |  |
| **Abnormal hemoglobin protein causes red blood cells to sickle; causes circulatory problems and  organ damage; caused by substitution A → T** |  |  |
| **Eating foods containing phenylalanine causes mental retardation; enzyme to break down phenylalanine doesn’t work; All babies born in SD are tested for this** |  |  |
| **Inability to distinguish the colors (especially red from green)** |  |  |
| **Protein that clots blood is missing causing excessive bleeding after injuries** |  |  |
| **Trisomy-21; Three #21 chromosomes; characteristic facial features; slanted eyes; mental retardation; some heart defects** |  |  |
| **X0 females; females have only one X chromosome; infertility** |  |  |
| **Males with extra X chromosomes (XXy, XXXy, XXXXy); infertility; some female characteristics** |  |  |
| **Protein for transporting Cl- ions doesn’t work; Thick mucous clogs lungs and digestive organs** |  |  |
| **Progressive weakening and loss of skeletal muscles causing paralysis and eventual death** |  |  |
| **Disorder in which lipids build up in the brain causing blindness, mental retardation and early death** |  |  |
| **Dwarfism; defect in bone formation causing normal sized head/torso, but short arms/legs** |  |  |

**MATCH THE GENETIC DISORDER WITH ITS DESCRIPTION**

**CAUSE: X-linked Recessive Autosomal Recessive Autosomal Dominant  
 Autosomal Codominant Nondisjunction**

**KLINEFELTER SYNDROME DUCHENNE MUSCULAR DYSTROPHY SICKLE CELL DISEASE   
 COLORBLINDNESS CYSTIC FIBROSIS HEMOPHILIA DOWN SYNDROME TAY-SACHS   
 HUNTINGTON’S TURNER SYNDROME PHENYLKETONURIA ACHONDROPLASIA**