

GENETIC DISORDERS--KEY

Fill in the chart below to learn more about some of the possible genetic disorders a person may inherit.

DISEASE/ BIRTH DEFECT	PEOPLE AFFECTED	WHEN APPEARS	METHOD OF INHERITANCE	EFFECT ON PERSON	TREATMENT
1. Cleft lip/pallet	ANYONE-- MORE COMMON IN ASIANS AND NATIVE AMERICANS	BIRTH	MULTI- FACTORAL	TWO SIDES OF LIP AND/OR PALLET NOT JOINED	SURGERY
2. Clubfoot	ANYONE	BIRTH	MULTI- FACTORAL	FOOT AND ANKLE TWISTED, MAKING IT IMPOSSIBLE TO WALK NORMALLY	SURGERY CORRECTIVE SHOES
3. Color blindness	MALES	BIRTH	X-LINKED	INABILITY TO DISTINGUISH CERTAIN COLORS	NONE--JUST HELP ADAPT
4. Cystic fibrosis	ANYONE	BIRTH-- SOME IN ADULT- HOOD	RECESSIVE	LACK OF AN ENZYME. MUCOUS OBSTRUCTIONS IN BODY, ESPECIALLY LUNGS AND DIGESTION; GROWTH RETARDATION	RESPIRATORY HELP
5. Diabetes	ANYONE	BIRTH OR LATER	MULTI- FACTORAL	ABNORMAL METABOLISM OF SUGAR BECAUSE BODY DOESN'T PRODUCE ENOUGH INSULIN	INSULIN SHOTS/ORAL DIET
6. Down's Syndrome	MORE COMMON TO YOUNG OR OLD PAR- ENTS, OR IF YOU HAVE ALREADY HAD A DOWN'S BABY	BIRTH	CHROMO- SOMAL ERROR	SOME FORM OF MENTAL RE- TARDATION; OVAL SHAPED EYES; THICK, BIG TONGUE; SHORT NECK; BACK OF HEAD IS FLAT; EARS SMALL; NOSE FLAT AND WIDE; SHORTER, LOOSE JOINTS; HEART PROBLEMS	SURGERY FOR HEART THERAPY; SPECIAL ASSISTANCE HELPS FUNCTION BETTER
7. Hemophilia	MALES	BIRTH	X-LINKED (SOME SPONTAN- EOUS MUTATIONS	ABSENCE OF CLOTTING FACTOR IN BLOOD (BLEEDER'S DISEASE), CRIPPLING AND DEATH FROM INTERNAL BLEEDING	TRANS- FUSIONS; AVOID EMOTIONAL STRESS
8. Huntington's Disease (Chorea)	PARENT MUST HAVE --RARE	MIDDLE AGES	DOMINANT	DETERIORATION OF BODY AND BRAIN IN MIDDLE AGE; DEATH	NONE
9. Hydro- cephalus	ANYONE SEVERE SPINA BIFIDA-- HIGHER CHANCE	BIRTH	MULTI- FACTORAL	OBSTRUCTION CAUSES WATER ON BRAIN; PRODUCE BRAIN DAMAGE AND DEATH	SURGERY TO PUT IN SHUNT

OPTION 6, page 4--GENETICS, HEREDITY, AND BIRTH DEFECTS

KEY

DISEASE/ BIRTH DEFECT	PEOPLE AFFECTED	WHEN APPEARS	METHOD OF INHERITANCE	EFFECT ON PERSON	TREATMENT
10. Marfan's Syndrome	PARENT MUST HAVE --RARE PEOPLE WITH LONG, BONY LIMBS	BIRTH	DOMINANT	HEART MALFORMATION, HEARING LOSS, EYE WEAKNESS, IF SEVERE--DEATH	HEART SURGERY, ANTIBIOTICS PHYSICAL THERAPY, REGULAR CHECKUPS
11. Muscular dystrophy	ANYONE (X-LINKED)	SOME CHILDHOOD OTHERS ADULT HOOD	MULTI-FACTORAL	WEAKENING OF MUSCLES. INABILITY TO WALK, MOVE, WASTING AWAY AND SOMETIMES DEATH	NONE
12. Phenylketonuria (PKU)	ANYONE	BIRTH	RECESSIVE	ABNORMAL DIGESTION OF PROTEIN; MENTAL RETARDATION, HYPERACTIVITY	PREVENTABLE DIET
13. Polydactyl	PARENT HAS--MORE IN BOYS	BIRTH	DOMINANT	EXTRA FINGERS AND TOES	CORRECTIVE SURGERY
14. Sickle Cell Anemia	PRIMARILY AFFECTS BLACKS	BIRTH	RECESSIVE	ABNORMAL BLOOD CELLS; BOUTS OF PAIN, HEART AND KIDNEY FAILURE, LESS OXYGEN TO ALL PARTS OF THE BODY. DEATH IN CHILDHOOD. DAMAGE TO ADULT VITAL ORGANS	TRANSFUSIONS
15. Spina Bifida	ANYONE	BIRTH	MULTI-FACTORAL	VARYING DEGREES--FROM SLIGHT CYST TO OPEN SPINE (SORES, INFERTILE, LEGS PARALYZED, POOR BLADDER AND BOWEL CONTROL)	SURGERY FOR SEVERE, PHYSICAL THERAPY
16. Tay-Sachs	JEWS (ETHNIC, NOT RELIGION)	6 MONTHS DIES BY AGE 3	RECESSIVE	ENZYME DISEASE CAUSING INABILITY TO BREAK DOWN FATTY DEPOSITS IN BRAIN AND NERVE CELLS; CELLS CLOG AND SHUT DOWN NERVOUS SYSTEM; APPARENTLY HEALTHY AT BIRTH, DIES BY AGE 3	NO CURE
17. Thalassemia (Cooley's Anemia)	GREEK AND ITALIAN	BIRTH	RECESSIVE	ABNORMAL BLOOD CELLS; PALENESS AND LISTLESSNESS, LOW RESISTANCE TO INFECTION; DO NOT PRODUCE ENOUGH RED BLOOD CELLS; LIVER AND SPLEEN ENLARGED	BLOOD TRANSFUSION SURGERY LATER ON SPLEEN