

## Genetic Disorders Cheat Sheet

by agarland7 via cheatography.com/169093/cs/35451/

| Genetic Disorders |                                |
|-------------------|--------------------------------|
| Caused by         | Alleles inherited from parents |
|                   | Genetic mutations              |
|                   | Chromosomal damage             |
|                   | Environmental factors          |
|                   | X-linked traits                |

| Types of Genetic Disorders |                       |
|----------------------------|-----------------------|
| X-linked traits            |                       |
|                            | Environmental factors |
|                            | Chromosomal damage    |
|                            | Genetic mutations     |

| Types of Genetic Disorders   |  |
|------------------------------|--|
| Single-<br>gene<br>Disorders | One gene is affected by a mutation that is passed through parents; can be x-linked, autosomal, dominant or recessive |
| Complex<br>Disorders         | More than one gene is affected by a mutation, not always passed through parents                                      |
| Chromo-<br>somal             | Chromosomes (or parts of) are mutated or missing, not always passes through parents                                  |

| Chromosomal Disorders        |  |
|------------------------------|--|
| Down Syndrome (trisomy 21)   |  |
| Turner Syndrome (monosomy X) |  |
| Edward Syndrome (trisomy 18) |  |
| Patau Syndrome (trisomy 13)  |  |

| Complex Disorders |
|-------------------|
| Asthma            |
| Diabetes          |
| Hypertension      |
| Schizophrenia     |

| Autosomal Disorders    |   |
|------------------------|---|
| Autosome               | A chromosome (not a sex chromosome)   |
| Autosomal<br>Disorders | Diseases caused by genes on autosomes   |
| Autosomal<br>Dominant  | Disorders that are passed from one parent (homozygous dominant or heterozygous) |
| Autosomal<br>Recessive | Disorders that are passed from both parents (homozygous recessive)              |

| Autosomal Dominant Disorders |   |  |
|------------------------------|---|--|
| Huntin-<br>gton's<br>Disease | Neurological disorder; progressive degeneration of brain cells, muscle spasms, personality disorder                               |  |
| Marfan<br>Syndrome           | Inherited disorder; affects the body's connective tissue causing disproportionately long limbs, weakened aorta, and poor eyesight |  |
| BRCA 1 &<br>BRCA 2           | Inherited in autosomal dominant pattern; hereditary breast cancer,  |  |

| Autosomal Recessive Disorders |  |  |
|-------------------------------|--|--|
| Cystic<br>Fibrosis            | Mucus in bronchial tubes and pancreatic ducts; shortened lifespan            |  |
| Sickle-cell<br>Anemia         | Mutated shape of red blood cells causing frequent blockages in blood vessels |  |
| Tay-Sachs                     | Degeneration of central nervous system occurring in children                 |  |

| X-Linked Traits |                 |
|-----------------|-----------------|
| Y Chromosome    | Color blindness |
|                 | Hemophelia      |
| X Chromosome    | Barr body       |



Disorders

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