

## Study of Genetic Disorders

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### EDITORIAL NOTE

Genetic Disorder is a health disease caused by mutations in one or more genes. It can be caused by a mutation in a single gene, multiple genes or by a chromosomal abnormality. All gene mutations occur before birth, and some of them cause birth disorders, because many birth problems are developing rather than genetic. An acquired disease is the absolute opposite of a genetic disease. Most cancers are acquired diseases, due to the fact that they involve genetic abnormalities in a small percentage of the body's cells. Some cancer syndromes in family members are hereditary genetic problems, such as BRCA mutations. It may be called to as a hereditary disease. The genetic disorder is acquired from one or both parents. Some problems have X-linked generation and are caused by a mutation on the X chromosome, Y chromosome and mitochondrial DNA are transmitted for a limited number of disorders.

Genetics is the study of how living organisms acquire features from their Grand Parents. The genetic information carried by a molecule called DNA explains these abilities. The DNA of an organism provides instructions for its structure and operation. Disorder means it is a disease that causes physical or mental functions to be affected. The mostly common genetic disorders are such as Down syndrome is a disorder in which a child is born with an extra copy of their 21st chromosome, it is also known as trisomy 21. This leads to developmental delays and problems in both the physical and mental areas. Thalassaemia is a protein found inside red blood cells that transfers oxygen from

the lungs to the body's tissues and organs and returns carbon dioxide to the lungs. Cystic fibrosis is a genetic disease that affects the lungs, digestive system, and other body organs badly. The cells that create mucus, sweat, and digestive liquids are damaged by cystic fibrosis. Normally, these released fluids are thin.

They are 3 types of Genetic Disorders are namely Single gene Disorder is a disease caused by a specific change or mutation in one of the body's more than 20,000 genes, which are present in almost every cell. It can be acquired if both partners share the same problem. It can also be passed by one or more family generations. Chromosomal disorders is any syndrome caused by defects or abnormalities in any of the body's systems, arising from an irregular chromosome number or structure. Complex disorders is a interaction of different genes and environmental factors produces a difficult disease. Multifactorial diseases are also known as complex diseases.

The Disease prevention and treatment of Genetic disorders are check for the disease on a daily basis, Maintain a proper diet, have some exercise on a regular basis, Tobacco use and alcohol drinking should be avoided, get specific genetic testing to help in the prevention and treatment of your disease. Some people obtain genetic problems from their parents, while others get genetic diseases as a response of acquired changes or mutations in a genetic gene or group of genes. Genetic mutations can occur by chance or as a result of exposure to the elements.

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