

Genetic Disorders

Biology

The main inheritance patterns, with an example of each.

Example conditions by inheritance pattern.

Pattern	Example	Note
Autosomal recessive	Cystic fibrosis	Carriers unaffected
Autosomal dominant	Huntington's disease	Late onset
X-linked recessive	Haemophilia A	Mostly males
Chromosomal	Down syndrome	Trisomy 21
Mitochondrial	Leber's optic neuropathy	Maternal only
Polygenic	Type 2 diabetes risk	Many genes plus environment

Educational reference, not medical advice. Carrier frequency for cystic fibrosis is around 1 in 25 in Northern European populations.