

Some Currently Available DNA-Based Gene Tests

- Alpha-1-antitrypsin deficiency (AAT; emphysema and liver disease)
- Amyotrophic lateral sclerosis (ALS; Lou Gehrig's Disease; progressive motor function loss leading to paralysis and death)
- Alzheimer's disease (APOE; late-onset variety of senile dementia)
- Ataxia telangiectasia (AT; progressive brain disorder resulting in loss of muscle control and cancers)
- Gaucher disease (GD; enlarged liver and spleen, bone degeneration)
- Inherited breast and ovarian cancer (BRCA 1 and 2; early-onset tumors of breasts and ovaries)
- Hereditary nonpolyposis colon cancer (CA; early-onset tumors of colon and sometimes other organs)
- Charcot-Marie-Tooth (CMT; loss of feeling in ends of limbs)
- Congenital adrenal hyperplasia (CAH; hormone deficiency; ambiguous genitalia and male pseudohermaphroditism)
- Cystic fibrosis (CF; disease of lung and pancreas resulting in thick mucous accumulations and chronic infections)
- Duchenne muscular dystrophy / Becker muscular dystrophy (DMD; severe to mild muscle wasting, deterioration, weakness)
- Dystonia (DYT; muscle rigidity, repetitive twisting movements)
- Fanconi anemia, group C (FA; anemia, leukemia, skeletal deformities)
- Factor V-Leiden (FVL; blood-clotting disorder)
- Fragile X syndrome (FRAX; leading cause of inherited mental retardation)
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- Huntington's disease (HD; usually midlife onset; progressive, lethal, degenerative neurological disease)
- Myotonic dystrophy (MD; progressive muscle weakness; most common form of adult muscular dystrophy)
- Neurofibromatosis type 1 (NF1; multiple benign nervous system tumors that can be disfiguring; cancers)
- Phenylketonuria (PKU; progressive mental retardation due to missing enzyme; correctable by diet)
- Adult Polycystic Kidney Disease (APKD; kidney failure and liver disease)
- Prader Willi/Angelman syndromes (PW/A; decreased motor skills, cognitive impairment, early death)
- Sickle cell disease (SS; blood cell disorder; chronic pain and infections)
- Spinocerebellar ataxia, type 1 (SCA1; involuntary muscle movements, reflex disorders, explosive speech)
- Spinal muscular atrophy (SMA; severe, usually lethal progressive muscle-wasting disorder in children)
- Thalassemias (THAL; anemias - reduced red blood cell levels)
- Tay-Sachs Disease (TS; fatal neurological disease of early childhood; seizures, paralysis)