myGenome Health Conditions List

**ACMG-endorsed Actionable Disorders** – Veritas’ myGenome whole genome screening includes 59 medically actionable genes recommended by the American College of Medical Genetics (ACMG) for return in clinical genomic sequencing. A list of these genes can be found here: [http://www.nature.com/gim/journal/v19/n2/abs/gim2016190a.html](http://www.nature.com/gim/journal/v19/n2/abs/gim2016190a.html)

For additional information please see: [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3727274/](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3727274/)

**Cancers** – Some cancers can run in families due to variants in certain genes called hereditary cancer genes. The primary function of many of these genes is to help prevent cancer in the body. However, the presence of a variant can disrupt the gene from performing this important job, thus predisposing that person to an increased risk for certain cancers. Examples can include breast, colorectal, and/or ovarian cancer.

**Cardiovascular** - Cardiovascular diseases are frequently portrayed as 'silent killers' for the general population but could be prevented through early intervention if genetic factors are identified and symptoms are monitored. We include screening of genes related to several heart conditions. Some examples include, but are not limited to, cardiomyopathies, arrhythmias, and clotting disorders.

**Immune Disorders** - Immune disorders are conditions that may increase susceptibility to infections and illness. These may include conditions such as severe combined immunodeficiency, among others.

**Endocrine/Metabolic** - Endocrine disorders are conditions that affect the way our bodies regulate hormones. Metabolic disorders are conditions that affect the way our bodies process energy. These types of conditions may include hemochromatosis, familial hypercholesterolemia, lysosomal storage disease (such as Fabry disease), and others.

**Neurological Disorders** - Neurological disorders are diseases that affect the nervous system (the brain, spinal cord, and nerves) and mental cognition, as well as the body's sensory and muscle functions. Examples of these conditions include epilepsy, spastic paraplegia, neuropathies, Parkinson’s disease, and others.

**Organ Health or Multisystem Disorders** – These are conditions that may involve single organs or multiple systems of the body. Examples may include disorders affecting vision, hearing, kidneys, skin, other organs, or may be syndromic and affect multiple organ systems.

**Reproductive/Carrier** - Autosomal recessive conditions require two variants in order to manifest. Individuals with only one variant are known as carriers, and usually do not show any symptoms of disease. Carrier screening will explore whether or not you inherited a DNA variation that could be passed down to your children. Knowledge of this information will allow you to determine if your children are at risk for certain inherited conditions. Some common recessive conditions include Cystic Fibrosis, recessive hearing loss, Phenylketonuria (PKU), and Gaucher disease.