L-2HGA - L-2-hydroxyglutaric aciduria

Details about the disease

L-2-HGA is a neurometabolic disorder (a metabolic disorder that effects the nervous system), characterised by elevated levels of L-2-hydroxyglutaric acid in urine, plasma and cerebrospinal fluid.

Clinical signs

L-2-HGA affects the central nervous system, with clinical signs usually apparent between 6 months and one year (although they can appear later). Clinical effects include epileptic seizures, "wobbly" gait, tremors, and muscle stiffness as a result of exercise or excitement and altered behaviour.

How it is inherited

The disease is described as an autosomal recessive condition. This means that a dog must inherit two copies of an abnormal gene (one from its mother and one from its father) before its health is affected. A dog that inherits only one copy of the abnormal gene (from its mother or its father) will have no signs of the disease, but will be a carrier and may pass the gene on to any offspring.

For advice on breeding your dog for health, why not visit The Kennel Club information guide

www.thekennelclub.org.uk/media/451962/breeding_health.pdf

Which laboratories test for this condition?

A list of laboratories and DNA tests can be found at the following link www.thekennelclub.org.uk/health/breeding-for-health/dna-testing-simple-inherited-disorders/worldwide-dna-tests/