

# VETERINARY TECHNICAL DATASHEET

Muscular Dystrophy, Ullrich-type; mutation originally found in Landseer



Mutation Found In :Landseer

## Disorder Type

- Muscle

## Disease Severity

- Severe

## Background

Muscular dystrophies are a group of progressive, hereditary disorders leading to muscular dysfunction. A specific form of the disease has been described in the Landseer. Muscular dystrophy in Landseer dogs causes difficulty while walking and atrophied muscles in young puppies.

## Key Signs

- Progressive muscular dysfunction

## Clinical Description

Clinical signs of the disease appear at a few weeks of age with difficulty in ambulation, short-strided gait, and atrophied muscles. Some affected puppies have severe clinical signs from birth and are euthanized in their first weeks of life. Puppies may also have difficulties swallowing, increased salivation, or present with frequent regurgitation. Clinical signs progress leading to severe muscle weakness before 2 years of age. The prognosis for the disease is poor.

## Mode of Inheritance

- autosomal recessive

## Gene Name

- COL6A1

## Next Steps

As affected dogs have movement difficulties, they will need assistance with everyday tasks. Clinical signs should be monitored as the disorder progresses to best care for the welfare needs of affected dogs. More severely affected dogs are often euthanized on welfare grounds.

## References

Steffen F, Bilzer T, Brands J, Golini L, Jagannathan V, Wiedmer M, Drögemüller M, Drögemüller C, Leeb T. A nonsense variant in COL6A1 in Landseer dogs with muscular dystrophy. *G3 (Bethesda)*. Oct 4;5(12):2611-7, 2015.