

VETERINARY TECHNICAL DATASHEET

Centronuclear Myopathy, (CNM); mutation originally found in Labrador Retriever



Mutation Found In :Labrador Retriever

Disorder Type

- Muscle

Disease Severity

- Moderate/severe

Background

With CNM, the severity of the clinical signs and age of onset varies, but common manifestations are muscle weakness and skeletal muscle wasting reducing the dog's exercise capabilities and causing changes in posture.

Key Signs

- Muscle weakness
- Exercise intolerance
- Ventroflexion
- Skeletal muscle atrophy

Clinical Description

In Labrador Retrievers, weakened or non-existent peripheral reflexes of the legs can occasionally be observed as early as 1 month of age, although more typically not until the puppies are 2 to 5 months old. At the age of 5 months, the affected puppies manifest decreased movement and exercise intolerance. The condition does not usually progress after the first year of life. In adult dogs, the most common signs are severe skeletal muscle atrophy especially in the areas of head, neck, and legs that limit the dog's ability to keep his head raised (ventroflexion) as well as abnormalities in posture and movements. Although the disorder limits the dog's athletic potential, it can still have a normal life span as a pet.

Mode of Inheritance

- autosomal recessive

Gene Name

- PTPLA

Next Steps

Treatment is supportive care and limiting exercise.

References

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