

VETERINARY TECHNICAL DATASHEET

Hereditary Footpad Hyperkeratosis, (HFH)



Mutation Found In :Irish Terrier, Kromfohrlander

Disorder Type

- Skin

Disease Severity

- Mild/moderate

Background

Hereditary footpad hyperkeratosis (HFH) is a congenital skin disorder encountered in the Kromfohrländer and the Irish Terrier. The disorder is characterized by hard, thickened, and cracked footpads and an abnormal coat.

Key Signs

- Hard and cracked footpads
- A dull and softer (less wiry) coat

Clinical Description

Hereditary footpad hyperkeratosis is a progressive condition characterized by dry and thickened footpads. The clinical signs include painful cracks and fissures on the footpads that may lead to secondary infections and lameness. Horny protrusions can be observed on all footpads. Affected dogs often avoid walking on rough surfaces. The signs result from abnormal keratinous proliferation of cells of the skin. Typical signs of hereditary footpad hyperkeratosis are observable in all four feet by the age of 4-5 months. Other characteristic signs are hard nails that seem to grow fast and a soft, dull, and less wiry coat.

Mode of Inheritance

- autosomal recessive

Gene Name

- FAM83G

Next Steps

Dogs suffering from HFH have a normal lifespan if the footpads and nails are monitored closely and cared for appropriately.

References

Drögemüller M, Jagannathan V, Becker D, Drögemüller C, Schelling C, Plassais J, Kaerle C, Dufaure de Citres C, Thomas A, Müller EJ, Welle MM, Roosje P, Leeb T. A Mutation in the FAM83G Gene in Dogs with Hereditary Footpad Hyperkeratosis (HFH). PLoS Genet 10(5): e1004370, 2014.