Biewer Terrier

	DISORDER	INHERITANCE	REFERENCE	BREEDING ADVICE	GENETIC MUTATIONS DESCRIBED
A.	Distichiasis	Not defined	1	Breeder option	
B.	Persistent pupillary membranes				
	- iris to iris	Not defined	1	Breeder option	
C.	Cataract	Not defined	1	NO	

Description and Comments

A. Distichiasis

Eyelashes abnormally located on the eyelid margin which may cause ocular irritation. Distichiasis may occur at any time in the life of a dog. It is difficult to make a strong recommendation with regard to breeding dogs with this entity. The hereditary basis has not been established although it seems probable due to the high incidence in some breeds. Reducing the incidence is a logical goal. When diagnosed, distichiasis should be recorded; breeding discretion is advised.

B. Persistent pupillary membranes (PPMs)

Persistent blood vessel remnants in the anterior chamber of the eye which fail to regress normally by 3 months of age. These strands may bridge from iris to iris, iris to cornea, iris to lens, or form sheets of tissue in the anterior chamber. The last three forms pose the greatest threat to vision and when severe, vision impairment or blindness may occur.

C. Cataract

A partial or complete opacity of the lens and/or its capsule. In cases where cataracts are complete and affect both eyes, blindness results. The prudent approach is to assume cataracts to be hereditary except in cases known to be associated with trauma, other causes of ocular inflammation, specific metabolic diseases, persistent pupillary membrane, persistent hyaloid, or nutritional deficiencies. Cataracts may involve the lens completely (diffuse) or in a localized region.

References

1. ACVO Genetics Committee and/or Data from OFA All-Breeds Report.

©2023 Orthopedic Foundation for Animals and American College of Veterinary Ophthalmologists

OCULAR DISORDERS REPORT
BIEWER TERRIER

Diagnostic Name	Year Examined: 1993-2018 Total # Dogs: 73 #	 %	2019-2023 454 #	 %
GLOBE				
.110 MICROPHTHALMOS	0	0.0%	1	0.2%
40.910 KERATOCONJUNCTIVITIS SICCA (KCS)	0	0.0%	2	0.4%
EYELIDS				
25.110 DISTICHIASIS	1	1.4%	14	3.1%
32.110 IMPERFORATE LACRIMAL PUNCTUM	0	0.0%	3	0.7%
CORNEA				
70.700 DYSTROPHY-EPITHELIAL/ STROMAL	0	0.0%	5	1.1%
UVEA				
93.710 PERSISTENT PUPILLARY MEMBRANES - IRIS TO IRIS	9	12.3%	44	9.7%
93.720 PERSISTENT PUPILLARY MEMBRANES - IRIS TO LENS	0	0.0%	2	0.4%
93.750 PERSISTENT PUPILLARY MEMBRANES - LENS PIGMENT FOCI NO STRANDS	2	2.7%	5	1.1%
93.760 PERSISTENT PUPILLARY MEMBRANES - ENDOTHELIAL OPACITY NO STRANDS	1	1.4%	0	0.0%
FUNDUS				
97.110 CHOROIDAL HYPOPLASIA	1	1.4%	0	0.0%
120.170 RETINAL DYSPLASIA-FOLDS	0	0.0%	4	0.9%
120.960 RETINOPATHY	0	0.0%	1	0.2%
130.110 MICROPAPILLA	0	0.0%	1	0.2%
130.120 OPTIC NERVE HYPOPLASIA	0	0.0%	1	0.2%
LENS				
100.210 CATARACT-SIGNIFICANCE UNKNOWN	4	5.5%	5	1.1%
100.302 PUNCTATE-POSTERIOR CORTEX	1	1.4%	0	0.0%
100.305 PUNCTATE-POSTERIOR SUTURES	4	5.5%	1	0.2%
100.307 PUNCTATE-CAPSULAR	0	0.0%	4	0.9%
100.312 INCIPIENT-POSTERIOR CORTEX	0	0.0%	1	0.2%
100.315 INCIPIENT-POSTERIOR SUTURES	0	0.0%	2	0.4%
100.317 INCIPIENT-CAPSULAR	0	0.0%	1	0.2%
100.330 GENERALIZED/ COMPLETE	1	1.4%	0	0.0%
100.340 RESORBING/ HYPERMATURE	1	1.4%	0	0.0%
100.345 SIGNIFICANT CATARACTS (SUMMARY)	***7***	***9.6%***	***9***	***2.0%***
VITREOUS				
110.120 PERSISTENT HYALOID ARTERY	1	1.4%	2	0.4%
110.200 VITREOUS DEGENERATION-ANTERIOR CHAMBER	0	0.0%	1	0.2%
110.320 VITREOUS DEGENERATION-SYNERESIS	0	0.0%	3	0.7%
OTHER				
900.000 OTHER, UNSPECIFIED	1	1.4%	0	0.0%
900.110 OTHER-SUSPECTED AS NOT-INHERITED	0	0.0%	10	2.2%
NORMAL				
.000 NORMAL GLOBE	59	80.8%	364	80.2%

©2023 Orthopedic Foundation for Animals and American College of Veterinary Ophthalmologists