

A Case of Multiple Ocular Defects in a Cat

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Introduction: Multiple ocular defects (MOD) including agenesis or coloboma of eyelid, microphthalmos, cataract, retinal dysplasia, choroidal and optic nerve colobomas is rare condition in cats. This is the first report about feline MOD in Korea.

Materials and methods: A 3-month-old, female, domestic short hair cat with blepharospasm and severe eye discharge on both eyes was referred to Veterinary Medical Teaching Hospital of Seoul National University. General ophthalmic examination using direct ophthalmoscope, indirect ophthalmoscope, slit lamp biomicroscope, applanation tonometer was performed. After euthanasia, necropsy and histopathologic examination were performed.

Results: On ophthalmic reflex test, no remarkable abnormality was found. On Schirmer Tear Test, right eye was 2mm, and left eye was 5mm. Intraocular pressure was 16mmHg in right eye and 11mmHg in left eye. Agenesis of the lateral part of upper eyelid was observed on both eyes. Moderate conjunctival hyperemia was observed on both eyes. Uveal cyst, persistent pupillary membrane was observed on right eye. Incipient cataract was observed on both eyes. Choroidal hypoplasia was found on left eye. The cat was diagnosed as multiple ocular defects. On histopathologic examination, thin tapetum lucidum was observed in left eye, and choroidal hypoplasia was confirmed.

Clinical relevance: This report describes the occurrence of multiple ocular defects in a domestic short hair cat ophthalmoscopically and histologically.

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