

## Acute Temporary Blindness after General Anesthesia in a Cat

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**Signalment:** A 2-year-old, castrated male, Scottish fold cat was referred to Veterinary Medicine Teaching Hospital of Seoul National University (VMTH-SNU) for evaluation of acute, bilateral blindness after general anesthesia for dental prophylaxis in local animal hospital. During dental procedure, anesthesia had been induced with acepromazine and ketamine, and maintained with isoflurane after intubation. The cat had come back home before complete arousal from anesthesia. The owner had noticed abnormal behavior after recovery from anesthesia at home.

**Results:** In VMTH-SNU on next day, complete blood count and serum chemistry were performed, and the results were within normal ranges. On neurologic examination, right hindlimb reflex like as hopping, hemi walking and wheel borrowing reduced. On ophthalmic examination, menace responses were absent on both eyes and pupillary light reflex (PLR) reduced on right eye, but other reflex was normal. On indirect ophthalmoscopy, fundus was normal. Prednisolone (2 mg/kg sid for 3 days) was administrated orally and tapered. Visual placing was possible on 2 days, and postural reflex was recovered on 4 days after dental prophylaxis. Thereafter, serial results of complete blood count and serum chemistry were within normal ranges and the cat showed normal behavior.

**Clinical relevance:** This study is the first case report of cat that acute temporary blindness was occurred after general anesthesia in Korea. Cerebral ischemia induced by hypoxia during anesthesia is considered as a main cause of acute temporary blindness after general anesthesia. Critical monitoring of circulatory parameters during anesthesia such as circulation, ventilation and oxygenation may be important to avoid blindness after general anesthesia of the cat.

**Key words:** acute, temporary, blindness, anesthesia, cat

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