

## **Local anesthesia of the eye for third eyelid flap**

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**Introduction:** Third eyelid flap has been performed frequently for corneal ulcer under general anesthesia. General anesthesia, however, needs pre-anesthetic examinations and may be dangerous in geriatric animals. The purpose of the study is to introduce the local anesthesia of the eye that we have performed for third eyelid flap.

**Materials and methods:** Medical records of 30 dogs and 2 cats that had third eyelid flap at the Veterinary Medical Teaching Hospital of Seoul National University between January 2005 and February 2006 were reviewed and protocols for anesthesia were investigated. For local anesthesia of the eye, palpebral nerve block, topical anesthesia and infiltration anesthesia were performed. A 1.2-cm, 26-gauge needle was inserted dorsal to the zygomatic process at its most lateral projection and 0.4 mL of 2% lidocaine was deposited. Prior to infiltration anesthesia 0.5% proparacaine was applied to the eye, and 0.1 mL of 2% lidocaine was injected to under the upper fornix and the palpebral surface of the nictitating membrane base individually. Third eyelid - upper palpebral conjunctival flap was performed by using 4-0 polygalactin 910 (vicryl?). Debridement, punctate keratotomy and grid keratotomy were included as needed.

**Results:** The procedure was performed in 26 dogs and 1 cat under local anesthesia. Among them 12 patients were older than 10 years and 2 had a risk of general anesthesia due to renal insufficiency. Sedation (acepromazine 0.1mg/kg) was performed with local anesthesia in 2 dogs and injectable general anesthetic (propofol 6mg/kg) was administered in 2 dogs and 1 cat because they were too excited during the surgery.

**Clinical relevance:** Local anesthesia of the eye would be useful for third eyelid flap especially in patients had a risk of anesthesia.

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