## What's your diagnosis?

# Nictitating membrane prolapse and eye tumefaction in a dog.

A five years old, male Boxer presented with severe tumefaction of the left eye and depression (Figure.1 and 2). A nictitating membrane prolapse was recorded, lasting four days. The last two days the dog was depressed and inappetent.

The general physical examination was unremarkable. The temperature of the dog was 40,3°C. Any attempt to open the the animal's mouth, was painful.

- 1. How would you describe ocular lesions? (Fig.1 and 2).
- 2. What is the most likely diagnosis? What is your differential diagnosis and which clinical and laboratory tests would you recommend?
- 3. What treatment would you suggest?





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Figure 1.



Figure 2.

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#### Answers

### tumefaction of a dog. Nictitating membrane prolapse and eye

with inflammation/abscess<sup>6</sup> (Figure 4). anechoic sites were noticed, findings consistent revealed, multiple hyperechoic areas and some phagocytized cocci. Finally, orbital ultrasound degenerative neutrophils with many free or were 28.000/mm3. Orbital cytology revealed available<sup>5,6,7</sup>. In this case, the blood leukocytes cytology, orbital ultrasound and MRI, where include total blood count, retrobulbar space sedation. Laboratory investigation

#### recommend? 3. What is the treatment that you would

every 12 hours for ten days was administered. Palatable tablets, Pfizer) at a dose of 20mg/kg In this case, amoxicillin/clavulanic acid (Synulox are withdrawn draining the abscess (Figure 5). Then strands are opened slightly and forceps the orbit, behind the posterior pole of the eye. blunt scissors are introduced towards the top of this incision hemostatic forceps or closed behind the last upper molar is made. Through blade, a small incision of the mucous membrane through the oral cavity. Initially, with a scalpel Access of retrobulbar space is performed drainage and systemic antibiotic therapy1,2. Treatment of orbital abscesses involves surgical

reffered 10. the oral cavity and dental problems have been as hematogenous infection, injuries through be removed during drainage of abscess<sup>9,9</sup>, as well remains unidentified. Foreign bodies - that can The exact cause of orbital abscesses often

#### .(Figures 1 and 2). 1. How would you describe the ocular lesions?

is normal. conjunctival sac and eyelids. The eye globe itself as well as mucopurulent discharge in the cornea. There is eyelid and periorbital swelling (chemosis) is present, which covers part of the and hyperemia. Extensive conjunctival edema is noticed which is accompanied by edema An intense nictitating membrane prolapse

would you recommend? clinical examinations and laboratory tests make the differential diagnosis and what what other medical conditions would you 2. What is the most likely diagnosis? From

periocular tumors 1,2,3,4. of mastication muscles and retrobulbar and cysts and mucoceles, eosinophilic myositis diagnosis includes zygomatic salivary retention a typical symptome of the disease1. Differential the intense pain, while opening the mouth, is peribulbar inflammation or abscess. Moreover, manifestations and fever refer to retrobulbar/ The sudden onset, the typical clinical

3). This examination is painful, so the procedure inspected. This was also true in our case (Figure upper molar is swollen and therefore should be of the orbit, the area behind the ipsilateral last any case of suspected inflammation or abscess to oral cavity and temporomandibular joint. In in the dog, so orbital structures lie adjacent diagnosis<sup>2</sup>. The inferior bony orbital wall is absent Oral cavity inspection is necessary for the

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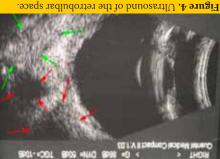
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pyohaemorragic discharge that was drained. opened and gently withdrawn. Note the copious towards the depth of the orbit, they are slightly After the introduction of surgical scissors Figure 5. Drainage of the retrobulbar abscess.



sites (green arrows) are present. Anechoic areas (red arrows) and hyperechoic



(arrows). Compare to the contralateral normal ipsilateral retrobulbar abscess of the left eye oral cavity behind the last upper molar of the