



**PATIENT PRESENTING CLINICAL SIGNS**

Bebe Cousins History of exophthalmos OS 10/2021, responded to antibiotics and resolved; recurrence of OS exophthalmos 4/2022  
 Abnormal PE/Chem/CBC/UA Results: Comfortable on oral evaluation, opening and closing of jaw NSF, sedated oral examination showed no swelling at back of mouth, normal soft/hard palate, normal lingual assessment; reduced retropulsion OS with moderate exophthalmos; Tonometry WNL 16mmHg CBC/chem prior to CT WNL Aspirate of mass effect behind OS showed dark brown mucinous material, cytology showed heavily proteinaceous background with degenerate RBCs; no active infectious agents noted

**SPECIES BREED COMPUTED TOMOGRAPHY OF THE SKULL**

Canine Shepherd Mix A high resolution pre- and post-contrast CT study of the skull is provided for review.

**COMPUTED TOMOGRAPHIC FINDINGS**

SEX Moderate abrasion of the crowns of the canine teeth is appreciated. Triadan 209 presents a moderate widening of the periodontal space. Advanced resorption of the distal root of triadan 409 is appreciated in combination with moderate widening of the periodontal space.

AGE In the caudal aspect of the left orbit, a well-defined, spherical central fluid attenuating mass, demarcated by a prominent, mild irregular marginated, moderate contrast enhancing capsule is seen, measuring 2.5 x 2.2 x 2.6 cm in size. The left ocular bulb is displaced rostrally and dorsally by the mass effect. The left optic nerve is displaced dorsally. The osseous structures level with the retrobulbar mass are within normal limits.

**INTERPRETED BY**

Sebastian Schaub, DVM  
 Dr. med. vet. DipECVDI

The nasal cavity presents the expected aerated spaces between thin & even conchae and turbinates with smooth mucosal lining.

Both temporomandibular joints present congruent joint spaces with even subchondral bone surfaces and are considered within normal limits.

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Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external ear canals are within normal limits.

The brain presents no deviation from normal anatomy and symmetry. The brain parenchyma is homogeneous and within normal limits for attenuation and distribution of contrast enhancement. The ventricular system is non-dilated and symmetric.

**REFERRING VET**

Whitney Jones

The submandibular and medial retropharyngeal lymph nodes are small and elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation and contrast enhancement pattern is uniform.

**INVOICE COMPUTED TOMOGRAPHIC DIAGNOSIS**

51848

- Left sided thick walled cavitory retrobulbar mass
- Secondary left sided exophthalmos
- Periodontal disease 209 and 409

**DATE INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

5-2-22

The CT study is consistent with a well-defined retrobulbar cavitory lesion and an acquired lesion is likely. Differentials include orbital varix, chronic hematic cyst (e.g. preceding trauma with incomplete resorption of the hematoma), abscess (but no signs of accompanying inflammation),



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Dacryoceles (unusual location), cystic neoplasm (e.g. carcinoma, myxosarcoma, optic nerve glioma). As there is no connection to the zygomatic salivary gland, the odds for sialoceles are low. The chances of surgical resection and sparing the left eye can be discussed with surgeon.

**SPECIES**

Canine

**BREED**

Shepherd Mix

**SEX**

Female Spayed

**AGE**

9

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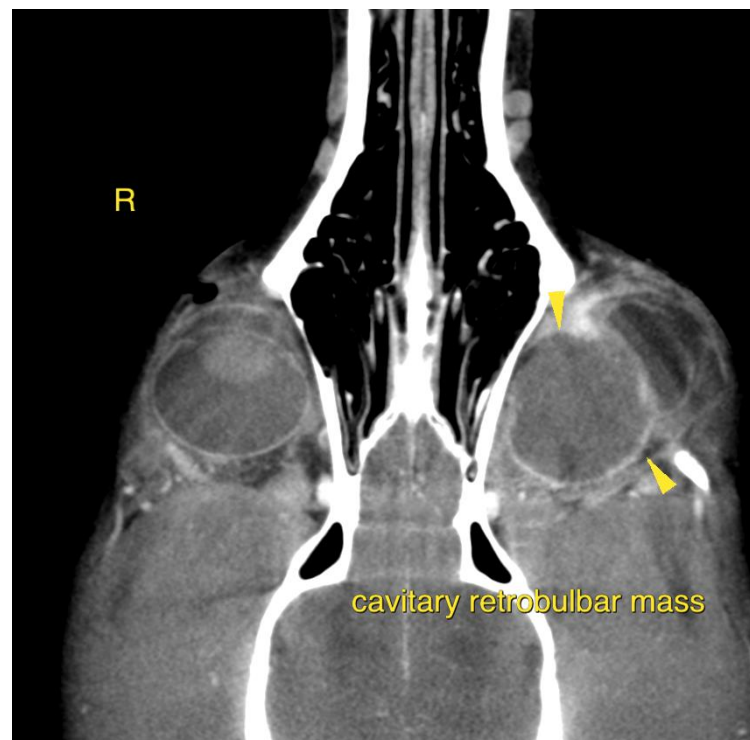
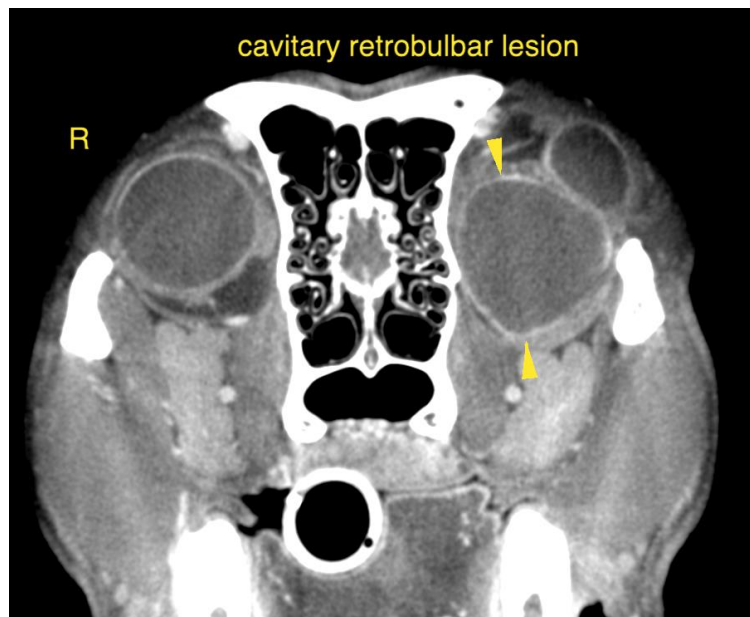
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**SPECIES**

Canine

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**BREED**

Shepherd Mix

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

**Sebastian Schaub**, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI  
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**SEX**

Female Spayed

**AGE**

9

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