



**PATIENT PRESENTING CLINICAL SIGNS**

Nancy Diaz Exophthalmos OD, concern for retrobulbar Dz

**COMPUTED TOMOGRAPHIC STUDY OF THE THORAX & HEAD**

**SPECIES**

Feline

Plain and post-contrast studies of the head and post-contrast study of the thorax available for review.

**COMPUTED TOMOGRAPHIC FINDINGS**

**BREED**

Calico

**Head**

An approximately 3.5 x 2.5 cm sized soft tissue attenuating heterogeneously enhancing mass is seen within the right nasal cavity. The lesion margins are ill-defined. Polyostotic aggressive bone lysis involving the hard palate, nasal septum, right bony orbita, and right nasal bone is seen. The mass extends into the dorsal nasal aspect of the right orbita. The right eye is deviated temporally and compressed against the zygomatic arch. Extensive turbinate destruction is seen within the right nasal cavity. Early lysis of the ventral aspect of the right cribriform plate is noted.

**SEX**

Female Spayed

The right frontal and bilateral presphenoidal sinuses are filled with fluid attenuating material.

**AGE**

13 Years

Mild right submandibular and medial retropharyngeal lymphadenomegaly is noted.

**Thorax**

The bony and surrounding soft tissue structures are within normal limits.

**INTERPRETED BY**

Nele Eley (Ondreka),  
DVM Dr. med. vet.,  
DipECVDI

The sternal, cranial mediastinal and tracheobronchial lymph nodes are small elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation and contrast enhancement pattern are uniform and considered within normal limits.

The cardiovascular structures including the pulmonary vasculature are within normal limits.

**HOSPITAL NAME**

Mobile Pet Imaging

The bronchial tree presents with regular branching and tapers uniformly towards the periphery as expected, the bronchial walls are thin and smooth. The bronchus-to-artery ratio is within normal limits.

The lung parenchyma presents the expected architecture and attenuation behavior.

**REFERRING VET**

Meaux

Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

**INVOICE**

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- Soft tissue mass with aggressive biological behavior within the right nasal cavity and right orbita with exophthalmos and compression of the right eye.
- Secretory secondary right frontal and bilateral presphenoidal sinusitis.
- Right medial retropharyngeal and submandibular lymphadenomegaly.
- No evidence of pulmonary metastases.

**DATE**

3-13-23



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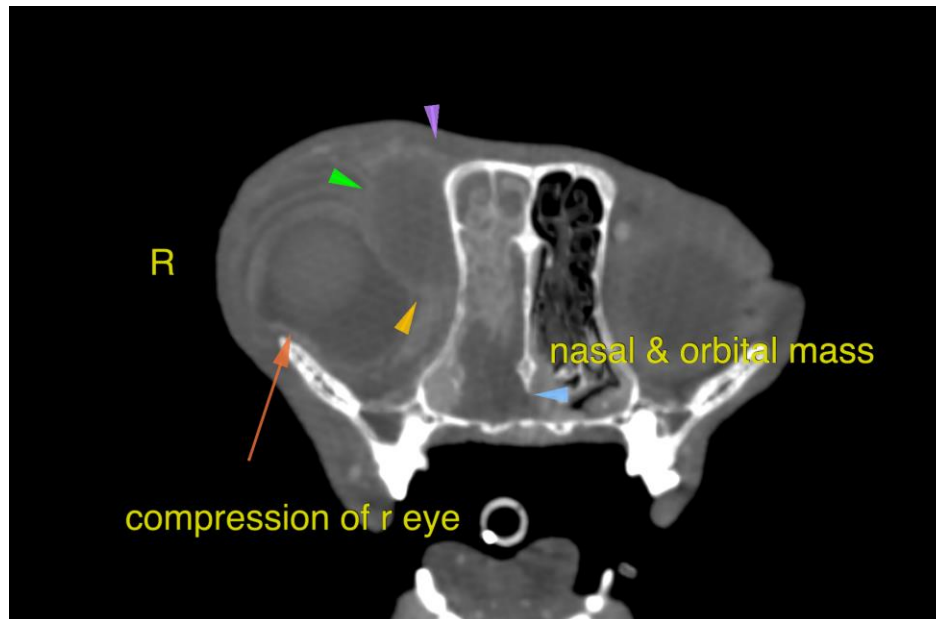
**DATE**

3-13-23

**INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS**

The CT study reveals a malignant soft tissue mass within the right nasal cavity and right orbita with polyostotic aggressive bone lysis. Early cribriform plate lysis with no evidence of intracranial extension of the soft tissue mass is seen at this point. However, mild reactive meningitis may be present. Note the severe compression of the right eye against the right zygomatic arch. Lymphoma, adenocarcinoma, and other carcinoma are primary differential diagnoses. Soft tissue sarcoma is a lower potential. Final diagnosis of the type of tumor would require sampling for histology.

The lymph node changes are compatible with reactive hyperplasia. Early metastatic disease cannot be ruled out entirely. Fine needle aspiration could be considered for further definition.



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

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.

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