



**PATIENT PRESENTING CLINICAL SIGNS**

Lucy Combs Patient presenting for a re-evaluation of nasal discharge. Lucy was on a hydroxyzine trial, per owner, meds worked when she first started, but is no longer working. Owner reported that Lucy will wake up at night and struggle to breathe, she cranes her neck. Owner also reports discharge primarily for the right nostril, left side is moist.

**SPECIES**

Canine

**COMPUTED TOMOGRAPHY OF THE SKULL&THORAX**

A high resolution pre- and post-contrast CT study of the skull and a post contrast CT study of the thorax are provided for review.

**BREED**

Chow Mix

**COMPUTED TOMOGRAPHIC FINDINGS**

Skull

The tooth elements 310, 311, 410 and 411 are absent.

**SEX**

FS

The nasal cavity bilaterally, L>R, is occupied by heterogeneous contrast enhancing soft tissue material – centered on the nasal septum caudally. Advanced destruction of the nasal conchal & turbinate structures bilaterally is appreciated. The left maxillary bone, left nasal bone and the horizontal plate of the palatine bone bilaterally present permeative osteolytic lesions and the nasal mass is bulging into the submucosal tissue of the hard palate.

**AGE**

8

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

**INTERPRETED BY**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

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.

**HOSPITAL NAME**

Critical Vet  
Care/Suncoast  
Veterinary

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.

Thorax

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

**REFERRING VET**

Dr. Young

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 is uniform and considered within normal limits.

**INVOICE**

51908

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

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.

**DATE**

5-4-22

The lung parenchyma presents the expected architecture and attenuation behavior.

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



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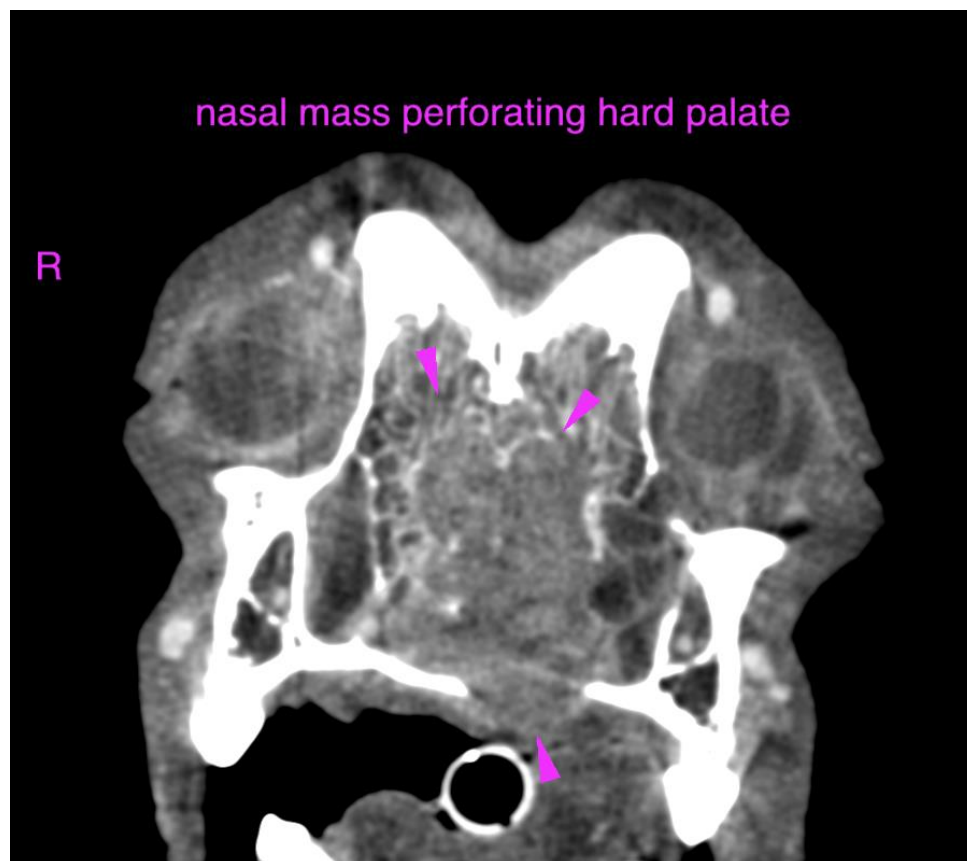
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**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Biologically aggressive nasal soft tissue neoplasia
- Secondary polyostotic aggressive osteolytic lesions of the associated osseous structures and perforation of the hard palate
- Multiple absent teeth
- Structural normal thorax, no evidence of pulmonary metastatic disease

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There is primary nasal neoplasia with secondary osteolytic lesions of the surrounding osseous structures. Differentials include adenocarcinoma, squamous cell carcinoma, transitional cell carcinoma, lymphosarcoma, other. Rhinoscopy with biopsy can be used as advanced diagnostic tests. Based on the results of the advanced diagnostic tests, the chances of radiation therapy can be discussed with oncologist. The Adam tumor stage is T3.





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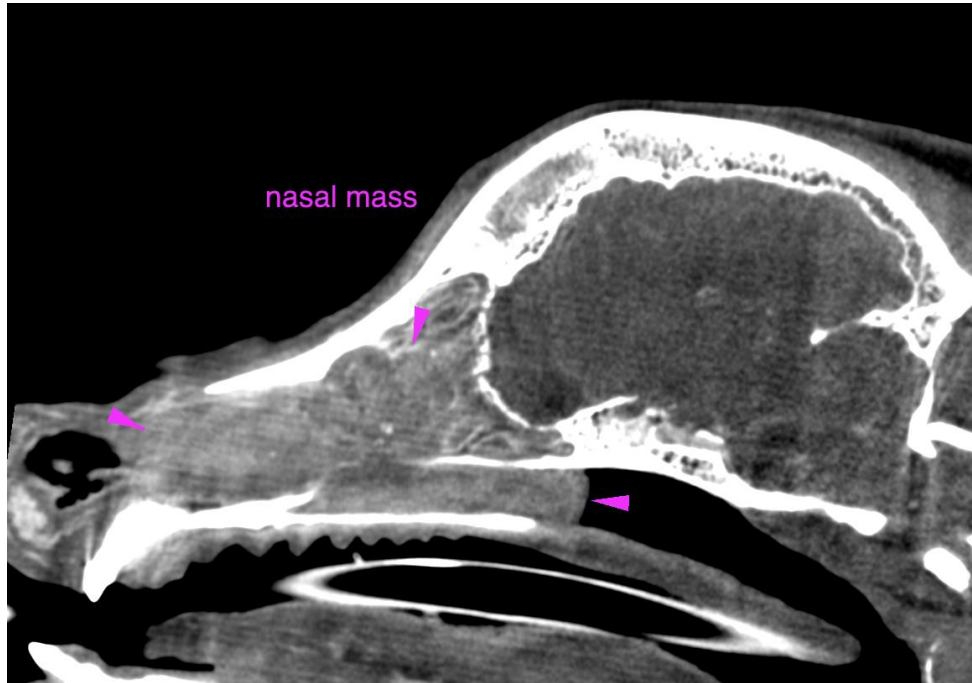
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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