



PATIENT PRESENTING CLINICAL SIGNS

Colby Brody Difficulty breathing, nose sounds congested and he has occasional clear nasal discharge. Upper airway sx may 2023, previously rx trazodone, benadryl, prednisone and temaril P, none provided relief.

SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE HEAD

Canine A pre- and post-contrast CT study of the head are provided for review totaling 3 series. One pre-contrast series of the head, bone algorithm. Two post-contrast series of the head, bone algorithm.

BREED COMPUTED TOMOGRAPHIC FINDINGS

Pug There is a mixed attenuating, predominantly hypoattenuating, and mildly enhancing mass effect within the left nasal cavity. The mass effect extends rostrally to the level of the triadan 204, and caudally to the level of the nasopharyngeal meatus, triadan 209. The mass effect obstructs the major portion of the left nasal cavity, produces left nasal turbinate destruction, and expands externally throughout the ipsilateral facial maxillary region. A multifocal osteolytic change is also seen in the left side ipsilateral basal lamina of the ethmoid bone and in the perpendicular plate of the palatine bone. The mass effect invades the choana and obstructs 90% of the airway passage in some portions. The mass effect appears to mildly protrude onto the left oral cavity, near to the region of the triadans 206 and 207. No evidence of contralateral invasion by the nasal mass effect or signs of cribriform plate interruption. The mass effect measures approximately 3.4cm by 3.2cm by 1.5cm.

Male Neutered The soft palate is elongated and thickened.

INTERPRETED BY

Tilde Rodrigues Froes, DMV, MSc., Dr. Med Vet., Dipl. CBraRVet

The tympanic bullae are completely filled with hypoattenuating material admixed by heterogeneously enhancing material, and mild hyperostosis are noted. The horizontal external auditory canals, near to the tympanic bullae, present narrowing and thickening of their lining wall.

The frontal sinuses are rudimentary, incidental.

HOSPITAL NAME

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The globes and retrobulbar spaces are unremarkable.

No mass effect is seen in the brain, normal attenuation.

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The temporomandibular joints are bilaterally congruent.

The triadans 110 and 210 are absent.

The right mandibular lymph nodes are mildly enlarged.

INVOICE

59782

The left mandibular lymph nodes are unremarkable.

DATE

8-17-23

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Left side predominantly hypoattenuating mass effect in nasal cavity, obstructing the nasal passage, associated chronic destructive rhinitis, expanding externally to the choana and ipsilateral oral cavity, showing multifocal osteolytic changes in adjacent bones. The differential



PATIENT

diagnosis includes nasal neoplasia, for example, carcinoma, chondrosarcoma, squamous cell carcinoma, or lymphoma and less likely external /odontogenic tumor invading the nasal cavity.

Colby Brody

- Bilateral chronic otitis, wall thickening, external horizontal stenosis that could be correlated to the inflammation and/or the brachycephalic breed variation.
- Elongated palate, correlated to the brachycephalic characteristics, and pharyngitis.

SPECIES

- Absent triadans 110 and 210.

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

BREED

The tomographic findings are correlated to the presented clinical signs of difficulty breathing, nose sounds, and nasal congestion. The main differential diagnosis due to the expanding mass effect is nasal neoplasm, for example, lymphoma, chondrosarcoma, or squamous cell carcinoma. In some cases, an overlap exists between severe fungal rhinitis and nasal neoplasm; however, the aspect of a more defined mass effect is more suggestive of nasal neoplasm. Nasal flush biopsy is suggested for confirmation.

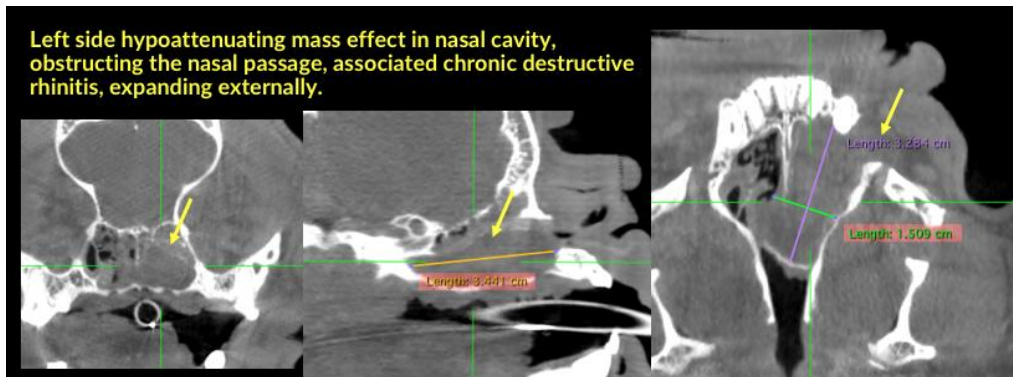
Pug

SEX

Male Neutered

AGE

5 Years



Left side hypoattenuating mass effect in nasal cavity, obstructing the nasal passage, associated chronic destructive rhinitis, expanding externally.

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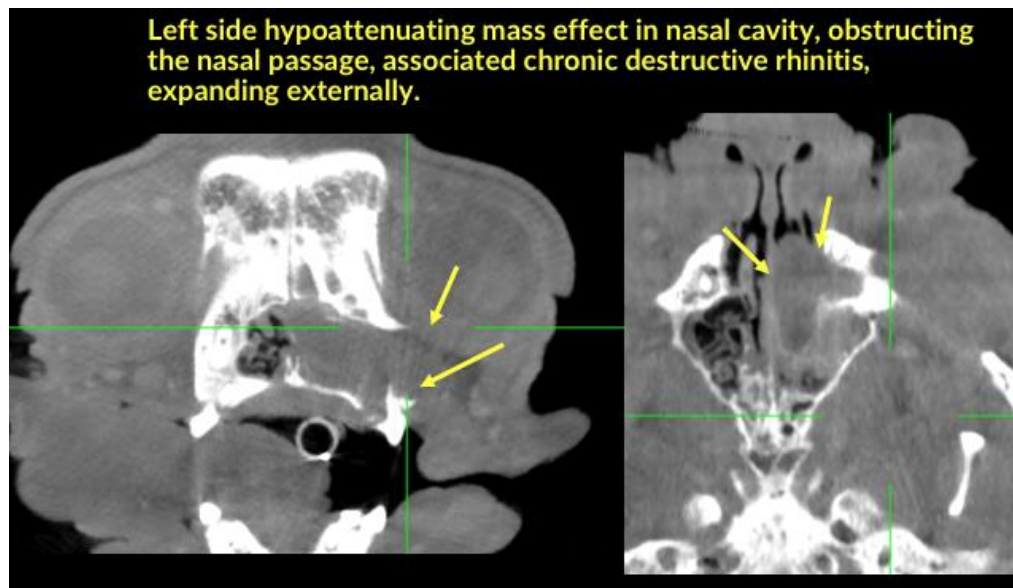
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Colby Brody

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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.

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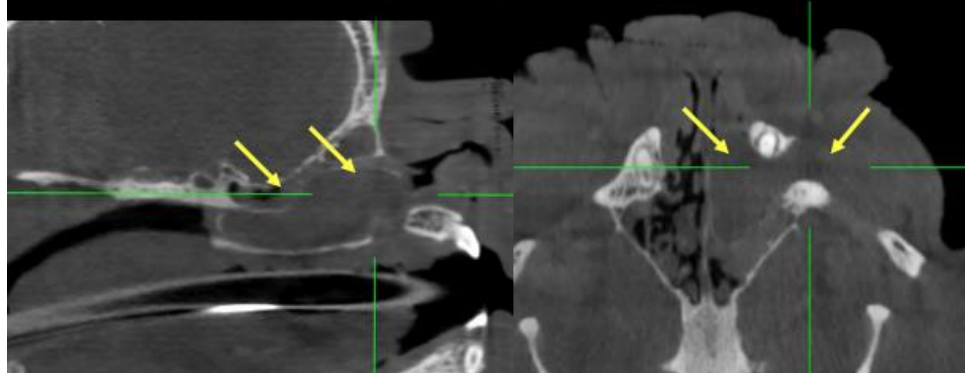
Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

DATE

8-17-23

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Left side mass effect in nasal cavity, obstructing the nasal passage, expanding externally, to the choana, showing multifocal osteolytic changes in adjacent bones.



Bilateral chronic otitis, wall thickening, external horizontal stenosis.

