



PATIENT PRESENTING CLINICAL SIGNS

Tigger Clincea Right nasal discharge (Epistaxis) since August 2022.

SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE HEAD AND THORAX

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

BREED COMPUTED TOMOGRAPHIC FINDINGS

DSH **HEAD**

SEX

MN

AGE

14 Years

A mixed soft tissue attenuating and hypoattenuating mass effect is seen associated with two mineralized heterogeneous inner foci. The mass effect is surrounded by fluid accumulation and completely filling the right nasal cavity. Regional turbinate destruction is seen associated with the mass effect in the middle nasal portion concurrently. The lesion is protruding into the choana causing an obstruction of the nasal airway in of approximately 70% in some portions.

The cribriform plate is intact. There is thinning of the ipsilateral orbital plate of the ethmoidal bone. No other osteolytic changes are seen adjacent to the remainder of the nasal, facial, and frontal bones. There is no septum deviation or osteolytic changes in the bony nasal septum.

The right sphenoidal sinus and frontal sinus are filled by hypoattenuating fluid material.

INTERPRETED BY

Tilde Rodrigues Froes,
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The left nasal cavity and frontal sinus are air-filled with intact turbinates bones.

The right tympanic bulla is partially filled with a predominantly hypoattenuating fluid material, however, no evidence of hyperostosis or signs of osteolytic changes.

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The left bulla cavity and external auditory canals are normal.

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

The temporomandibular joints are bilaterally congruent.

REFERRING VET

Xavier Meaux

The fascial, cervical, and head muscle mass is symmetrical, and unremarkable.

The globes and retrobulbar spaces are unremarkable.

All teeth are present.

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The medial retropharyngeal lymph nodes and mandibular lymph nodes are unremarkable.

THORAX

DATE

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The trachea is normal in luminal diameter and position.

The lumen of the main bronchus is normal.

**PATIENT**

Tigger Clincea

There is a small pulmonary bulla located at the peripheral border of the cranial subsegment of the left cranial lung lobe. The remaining lung lobes are normal in volume expansion and attenuation.

SPECIES

Feline

The cardiac silhouette and pulmonary vessels are normal. The contrast media adequately fills the cardiac chambers and vessels on post-contrast series.

The tracheobronchial lymph nodes are normal.

The sternal, mediastinal, and cranial mediastinal lymph nodes are unremarkable.

BREED

DSH

The pleural space and diaphragm are normal.

COMPUTED TOMOGRAPHIC DIAGNOSIS**SEX**

MN

- Right-side mixed attenuation mass effect with mineralized foci with associated chronic destructive rhinitis and concurrent fluid accumulation; however, with small regional periorbital bone thinning, without osteolytic changes of the nasal septum or cribriform interruption. The differential diagnosis includes severe destructive rhinitis, concurrent ossifying inflammatory nasal polyps, or nasal neoplasm process.

AGE

14 Years

- Right-side sinusitis.
- Right-side otitis media.
- Small incidental pulmonary bulla. Otherwise, normal pulmonary parenchyma.
- No evidence of pulmonary metastatic disease.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

In this case, it is difficult to distinguish severe destructive rhinitis (inflammatory, lymphocytic-plasmocytic) with ossifying inflammatory polyps and fungal rhinitis from a neoplasm process, for example, lymphoma, chondrosarcoma, and nasal carcinoma. An overlap between the tomographic findings of destructive rhinitis and nasal neoplasia exists; however, no evidence of significant osteolytic changes of the adjacent bones or cribriform plate interruption were identified. Nasal flush biopsy is required for diagnosis.

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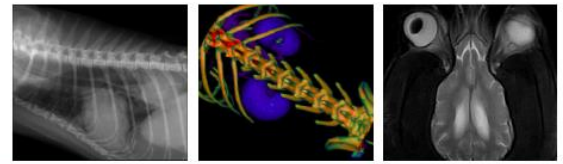
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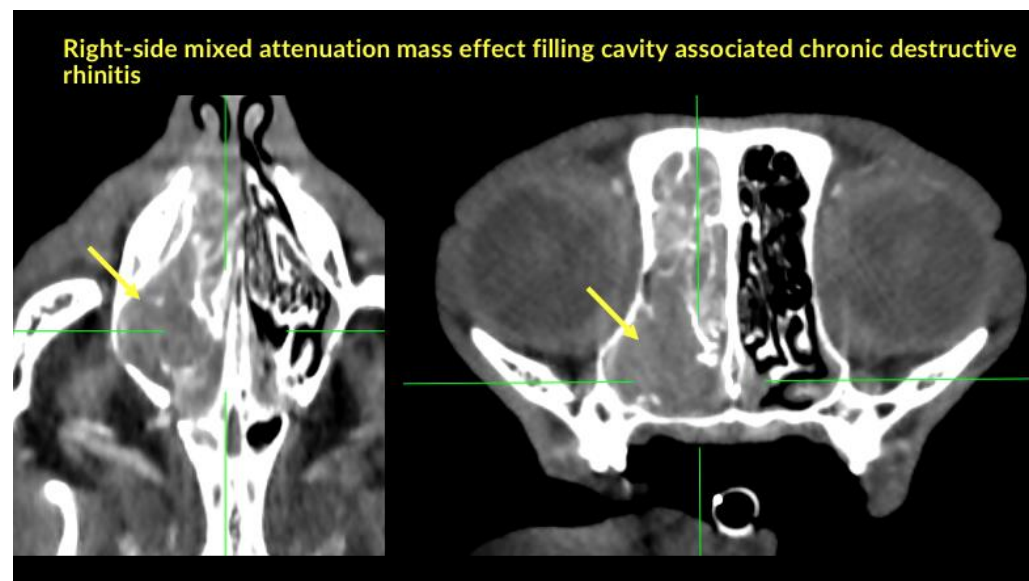
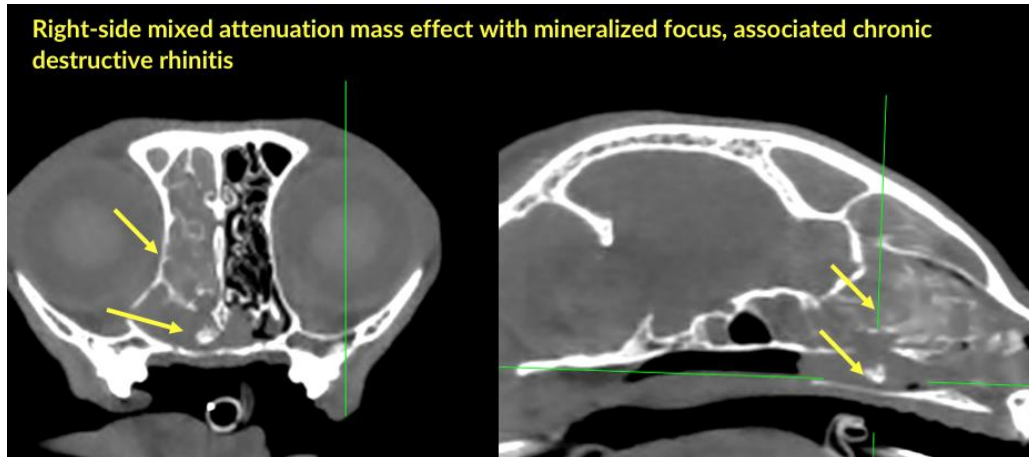
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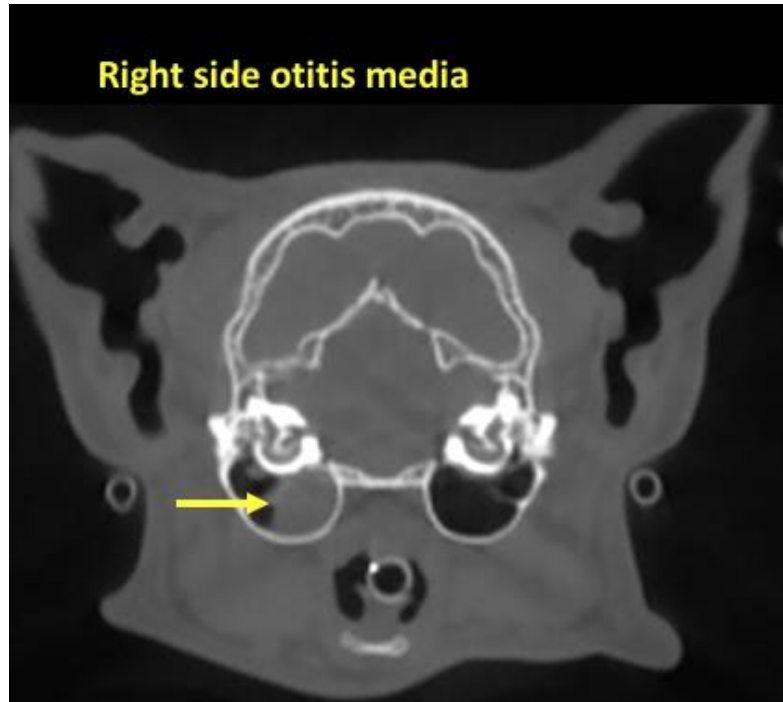
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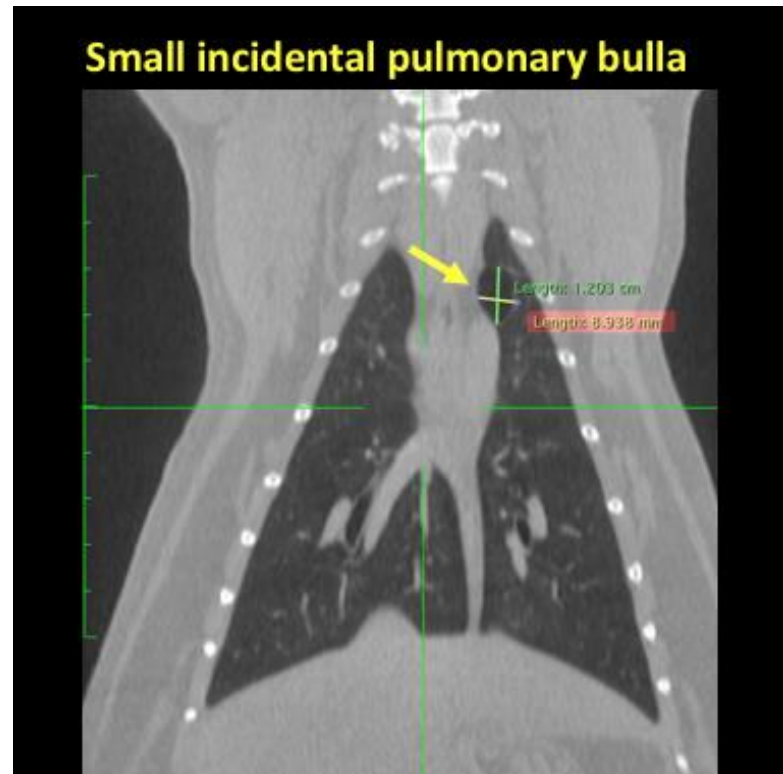
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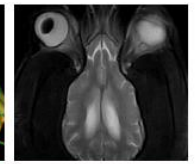
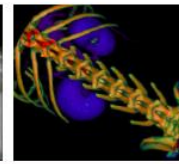
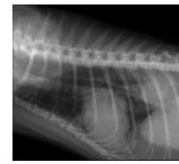
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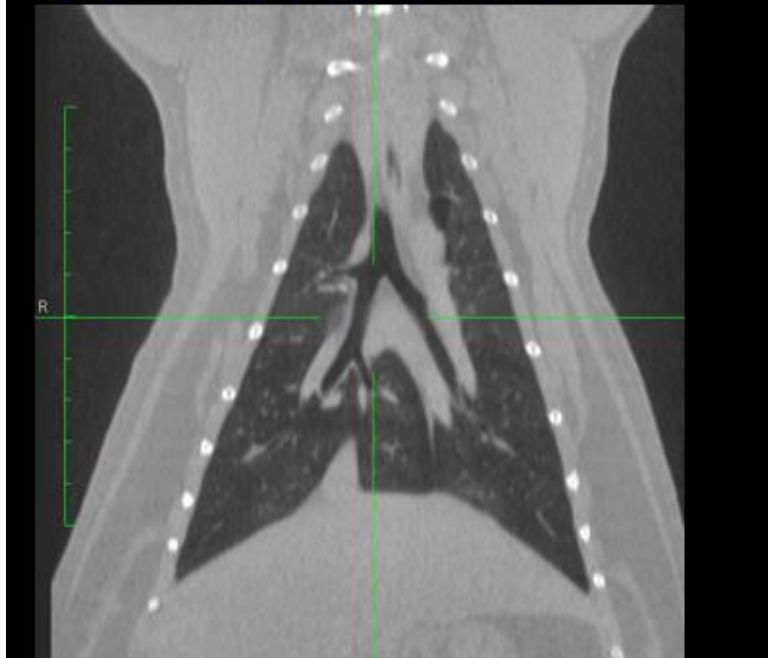
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Otherwise, normal thorax



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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.

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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