



PATIENT PRESENTING CLINICAL SIGNS

Ladybug Furry Friends Rescue

History: Rescued from Miami-Dade Animal Services due to an upper respiratory outbreak. Stertorous upper respiratory "nasal" breathing since recovery. At time of spay she was noted to have three upper incisors fractured at the gum line with splintered roots. The rostral hard palate seemed to be abnormal. Teeth extracted but persistent upper respiratory noise and intermittent unilateral nasal discharge from the same side. Unsure if trauma to nasal cavity/hard palate/penetrating tooth roots secondary to unknown trauma.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Rescue pet. Stitches present on Left upper incisors area, missing Right lower canine tooth.

BREED

Mixed

COMPUTED TOMOGRAPHIC STUDY OF THE SKULL

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

SEX

Spayed Female

COMPUTED TOMOGRAPHIC FINDINGS

Triadan 201-203, 308 and 404 are absent. A small, retained fragment of the apex of the root of triadan 201 is seen within the alveolar crest. Mineralized material is seen in the pulp cavity of triadan 204, merging with the alveolar bone. Moderate chronic osseous remodeling is seen level with the alveolar crest of triadan 404 with a short oblique fracture of the rostroventral cortex – fracture gap is filled with osseous material. Multiple small fragments of the root of triadan 404 are seen with the respective alveolar crest. The apex of the root of triadan 403 is protruding into the alveolar crest of triadan 404 and the pulp cavity of triadan 403 is mildly widened in comparison to triadan 303.

AGE

6 Months

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

In the left nasal cavity, moderate atrophy of the conchal structures is appreciated. Chronic osseous remodeling with hyperostosis of the osseous margins of the choana is seen, causing significant stenosis of the choana. The perpendicular plate of the palatine bone and the hamulus of the pterygoid bone bilaterally present with moderate hyperostosis and are asymmetric.

HOSPITAL NAME

Mobile Pet Imaging

The osseous lining of the frontal sinuses presents moderate hyperostosis.

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

REFERRING VET

Dr. Meaux

The right tympanic bulla is filled with non-contrast enhancing soft tissue material. The external ear canals are within normal limits.

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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.

DATE

5/5/22

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.



PATIENT

Ladybug Furry
Friends Rescue

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Choanal stenosis with chronic osseous remodeling
- Chronic osseous remodeling perpendicular plate of the palatine bone bilaterally
- Cortical fracture alveolar crest 404
- Hyperostosis frontal sinuses
- History of multiple complicated dental fractures with absent triadan 201-203, 308 and 404
- Small remaining fragments of the roots of triadan 201 and 404 in the alveolar crest
- Ankylosis triadan 204
- Suspect non-vital triadan 403
- Mild destructive rhinitis
- Right sided otitis media

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SEX

Spayed Female

The changes seen are likely a sequela to traumatic insult with comminuted fractures level with the choana and the perpendicular plate of the palatine bone and complicated dental fractures and cortical mandibular fracture level with 404.

AGE

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The osseous remodeling and deformity of the osseous lining of the choanal causes choanal stenosis – responsible for the presenting clinical signs. The chances of surgical/interventional management of the choanal stenosis should be discussed with surgeon/internal medicine.

As there is accompanying hyperostosis of the frontal sinuses, recommend complementing workup by rhinoscopy to rule out mycotic superinfection triggering hyperostosis.

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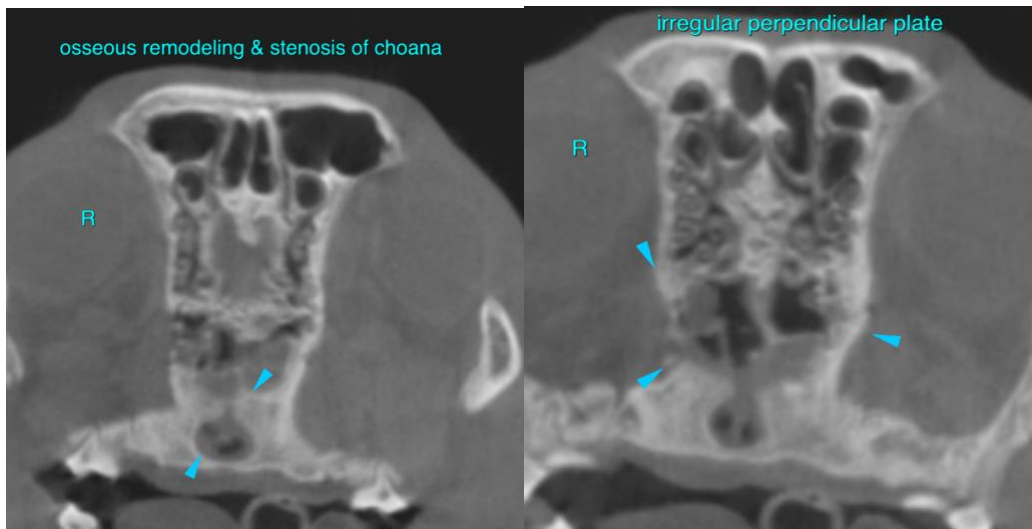
Dr. Meaux

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PATIENT

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Friends Rescue

SPECIES

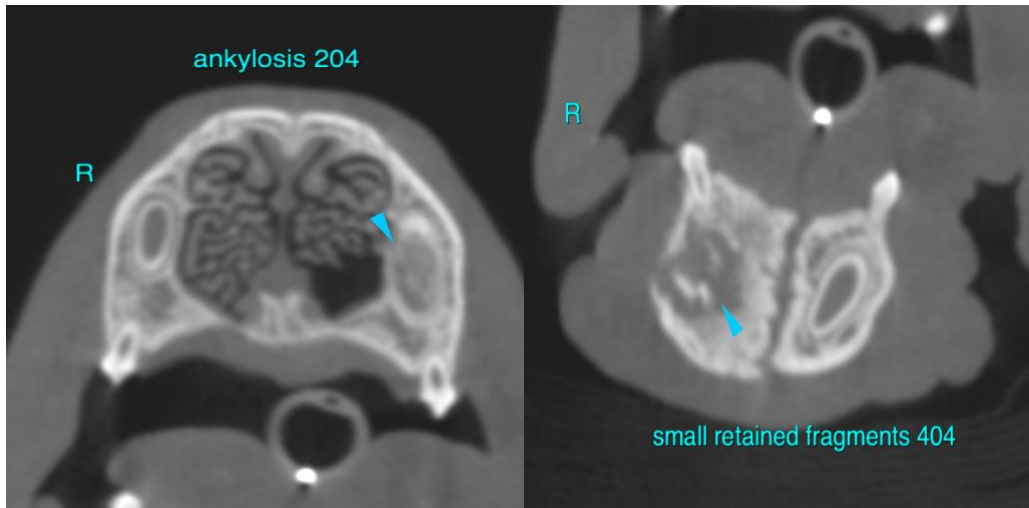
Canine

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Spayed Female



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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.

INTERPRETED BY

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