


PATIENT PRESENTING CLINICAL SIGNS

Shampoo Garcia Swelling on forehead remains. Patient appears painful when touched in area. Firm swelling on cranium, moderate discomfort. Patient has history of head trauma 1m ago.

SPECIES Abnormal PE/Chem/CBC/UA Results: CBC --- unremarkable CHEM --- marginal elevation in ALKP EKG --- sinus arrhythmia

Canine

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD

BREED A high-resolution pre- and post-contrast CT study of the head are provided for review totaling 2 series. One pre-contrast series of the head, bone algorithm. One post-contrast series of the head, soft bone algorithm.

Schnauzer

COMPUTED TOMOGRAPHIC FINDINGS
SEX

Neutered Male

HEAD
AGE

12 Years

There is a large semicircular mixed attenuating mass effect within the forehead, affecting the frontal bones, squamous part of frontal bones and a portion of the calvarium. The lesion has predominantly proliferative appearance, coarse, granular to sunburst appearance. In addition, few osteolytic foci are seen presenting permeative characteristics, a small discontinuity osseous bone line is seen in the interfrontal suture. The mass measures approximately 4.9cm by 1.6cm by 4.6cm in length.

INTERPRETED BY

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

The mass effect is protruding to the frontal sinuses (>Left side), filling partially the air space more dorsally, also there is mild hypoattenuating fluid material mimicking a mass effect within the left nasal cavity, dorsally with minimal regional turbinate destruction.

The remaining portions of the nasal cavities and turbinates are unremarkable.

The cribriform plate is intact.

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The choana, nasopharynx, and larynx are unremarkable.

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

REFERRING VET

Dr. M. Biello

The bulla cavities and external auditory canals are normal.

The temporomandibular joints are bilaterally congruent.

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The globes and retrobulbar spaces are unremarkable.

All teeth are present.

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

DATE

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In the periphery of the exam, there is a small subchondral cyst and sclerotic border of the caudal surface of the C3, and spondylosis deformans, partially visible*.



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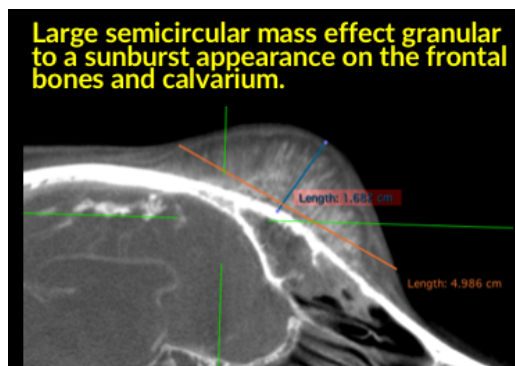
COMPUTED TOMOGRAPHIC DIAGNOSIS

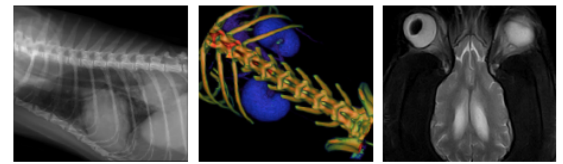
- Large semicircular mass effect with coarse, granular to a sunburst appearance on the frontal bones and calvarium, mild infiltration into the frontal sinus (> left side), the differential diagnosis includes neoplasms, for example, multilobular osteochondrosarcoma, osteosarcoma, or chondrosarcoma.
- Thin osseous bone discontinuity within the multifocal osteolytic changes in the interfrontal suture between the frontal bones, the differential diagnosis includes thin small pathological fissure.
- Concurrent sinusitis with mass infiltration, mild left-side regional nasal sinusitis, fluid accumulation.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The computed tomographic study reveals a large forehead mass effect with aggressive osteoproliferative characteristics. The appearance of the lesion indicates a neoplastic process, for example, multilobular osteochondrosarcoma, osteosarcoma, or chondrosarcoma. As mentioned, there is a suspected small pathological fracture in the interfrontal region. The small fracture line could be secondary to the fragility of the bone in this region. There are regional signs of frontal sinus invasion (> left side). A biopsy is needed for a definitive diagnosis.

The identified lesion in the C3 surface border is at the border of the exam, in the periphery, and is not completely evaluated. Consider a cervical x-ray for better analysis.





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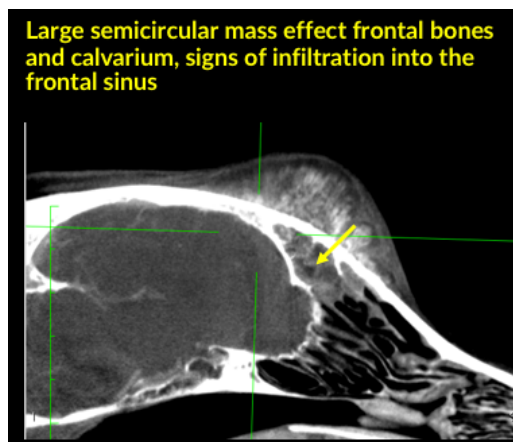
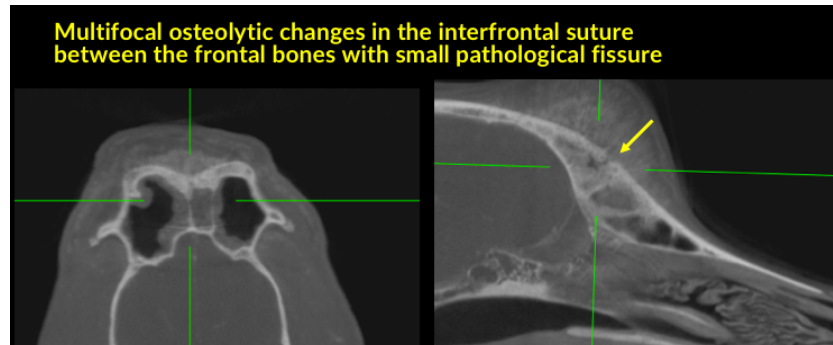
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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