



**PATIENT**

Mack Lopez

**PRESENTING CLINICAL SIGNS**

Presented 12/23/2021, owner reported pet playing with other dog in house and possibly bumping heads. The swelling has improved from initial presentation but the pet is painful to open his mouth (even under sedation today prior to CT).

**SPECIES**

Canine

**COMPUTED TOMOGRAPHIC STUDY OF THE HEAD**

Plain and post contrast studies available for review.

**BREED**

Pitbull Mix

**COMPUTED TOMOGRAPHIC FINDINGS**

The brain presents no deviation from normal anatomy and symmetry. The grey and white matter distinction and the neuroparenchymal attenuation are as expected. The distribution of contrast enhancement is within normal limits throughout the parenchyma and meninges. The ventricular system is non-dilated and within the limits of the expected volume and symmetry.

**SEX**

Intact Male

Thin and smoothly folded conchae and turbinates are seen.

**AGE**

7 Months

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

Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external auditory meatuses present within normal limits.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

The submandibular and medial retropharyngeal lymph nodes are moderately enlarged.

The salivary glands present within normal limits.

**HOSPITAL NAME**

Mobile Pet Imaging

Bilaterally symmetric hyperostosis of the calvarial bones with thickening and sclerosis of the frontal and parietal bones is seen. There also is bilaterally symmetric hyperostosis of both mandibular bodies. A mix of osteoproliferative and osteolytic changes is seen in both maxillae accentuating the right side. A predominantly lytic area is present circumferential to the triadan 204 with regional mucosal swelling in the neighboring portion of the left nasal cavity.

**REFERRING VET**

Meaux

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Bilaterally symmetric calvarial, maxillary, and mandibular osteopathy with mixed hyperostotic and osteolytic changes.
- Bilaterally symmetric submandibular and medial retropharyngeal lymphadenomegaly.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**DATE**

1-19-22

The CT findings are highly suggestive for calvarial hyperostosis syndrome / craniomandibular osteopathy which is a nonneoplastic proliferative bone disease of the flat bones of the skull and jaw bones. Etiology is similar to craniomandibular osteopathy, hypertrophic osteodystrophy, panosteitis, and other have been discussed. Calvarial hyperostosis syndrome is typically very painful but self-limiting with reaching skeletal maturity. Therefore, the treatment is targeted to alleviate the patient's clinical signs by using systemic NSAIDs and softening the food. Hematogenous osteomyelitis and fibrous osseous dystrophy are potential but very unlikely differential diagnoses.



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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.

**SPECIES**

Canine

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