SonoPath Teleradiology

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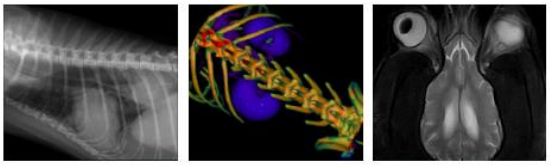

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Buddy Dog Tales Rescue

SPECIES

Canine

BREED

Boston Terrier

SEX

M

AGE

7 Years

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

HOSPITAL NAME

Animal Health Partners

REFERRING VET

Lea Mehrkens

INVOICE

52646

DATE

6-29-22

PRESENTING CLINICAL SIGNS

It has been noted he has been unable to open his jaw for 7 years. No history of interventions with this issue. The maxilla and mandible are visibly misaligned. There is a gap on the right side of his jaw where his tongue can come out. Suspected trauma as a puppy.

COMPUTED TOMOGRAPHY OF THE SKULL

A pre- and post-contrast CT study of the skull in a bone and soft tissue reconstruction is provided for review.

COMPUTED TOMOGRAPHIC FINDINGS

There is a breed specific brachycephalic conformation of the osseous structures of the skull. Moderate crowding of the teeth in all jaw quadrants is appreciated. Multiple teeth are absent and the remaining teeth present evidence of moderate periodontal disease. Generalized moderate decreased density of the maxillary bone and mandible is appreciated. At the ventral aspect of the mandible, rough solid new bone formation is appreciated.

Level with the condylar process of the mandible/temporomandibular joints and the tympanic bullae, marked solid irregular formed new bone formation is seen and the ramus of the mandible bilaterally is fused with the zygomatic process of the temporal bone/tympanic bullae bilaterally.

The masticatory muscle volume is significantly decreased.

The horizontal segment of the external ear canals is narrowed by the new bone formation level with the tympanic bullae.

The nasal cavity presents the expected aerated spaces between thin & even conchae and turbinates with smooth mucosal lining.

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.

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.

The intervertebral disc C2/C3 is mild to moderately protruding into the vertebral canal, occupying approximately up to 20% of the cross-sectional area of the vertebral canal at the same level.

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Marked hyperostosis in the region of the temporomandibular joints & tympanic bullae with ankylosis of the mandible with the calvarium
- Moderate hyperostosis along the ventral aspect of the mandible bilaterally
- Intervertebral disc protrusion C2/C3 with potential dynamic compressive myelopathy
- Generalized moderate periodontal disease with dental tartar
- Disuse atrophy of the bone of the maxillary bone and mandible bilaterally

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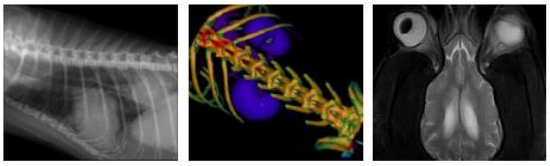

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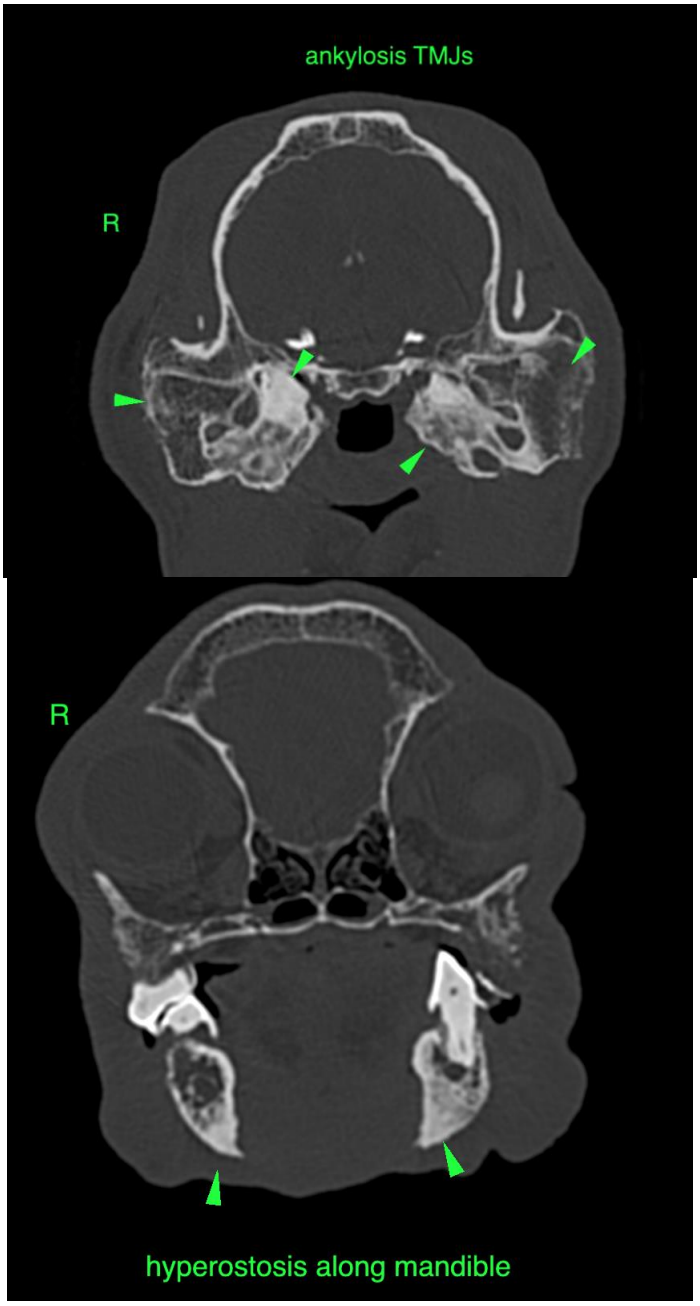
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The findings are consistent with preceding craniomandibular osteopathy (CMO), a proliferative bone disease, occurring in immature dogs - that have resulted in ankylosis of the mandible and marked osteoproliferative changes in the region of the temporomandibular joints and the tympanic bullae. The inability of normal mastication has resulted in atrophy of the osseous structures and masticatory muscles. Treatment options are limited to continuous supportive care.



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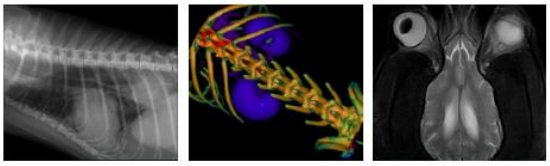

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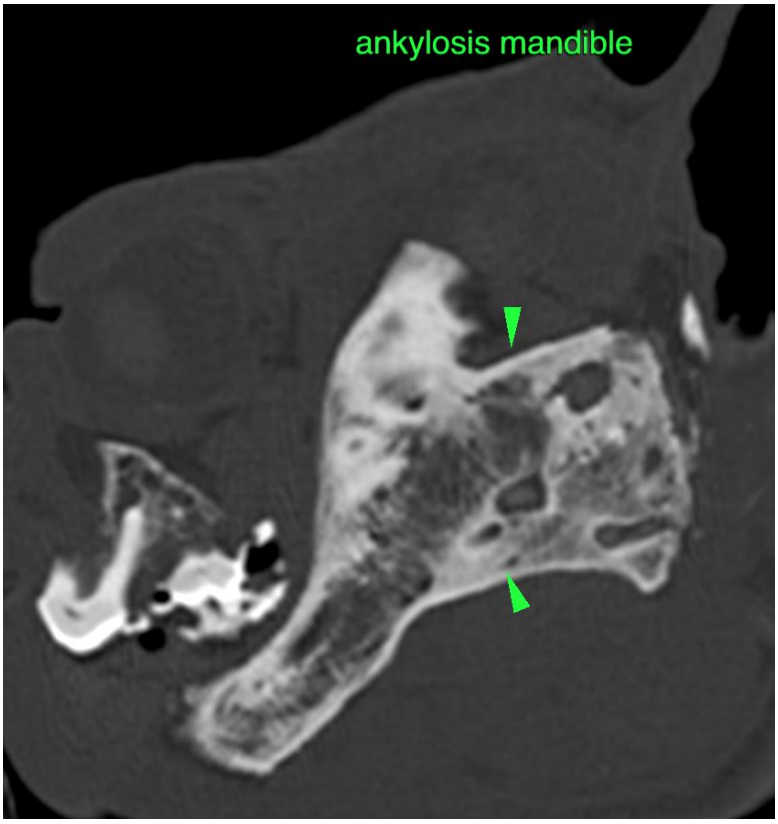

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Sebastian Schaub, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI
sebast.schaub@gmail.com