



PATIENT

Louie Rodriguez

PRESENTING CLINICAL SIGNS

Osteosarcoma Right mandible

SPECIES

Canine

COMPUTED TOMOGRAPHY OF THE SKULL & THORAX

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

BREED

Cotton De Tulear

COMPUTED TOMOGRAPHIC FINDINGS

Skull

The tooth elements 108, 208 and 408 are absent. Level with absent triadan 408, the right mandible presents segmental osteolysis, extending mesial up to the distal root of triadan 407 and distally up to the level of the mesial root of triadan 409. The distal root of triadan 407 presents moderate widening of the periodontal space.

SEX

Male Neutered

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

AGE

13 Years

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

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

The right tympanic bulla contains a mild amount of 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.

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.

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The pictured parts of the neck are within normal limits.

Thorax

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In the subcutaneous tissue at the left dorsal aspect of L2, an ovoid shaped nodule, measuring 13 x 5 mm in size is visible. The vertebral endplates C6/C7 present mild spondylosis formation and the respective intervertebral disc space is moderately narrowed. Both shoulder joints present mild osteophyte new bone formation.

DATE

12-6-21

The sternal, cranial mediastinal and tracheobronchial lymph nodes are small elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation and contrast enhancement pattern is uniform and considered within normal limits.

The cardiovascular structures including the pulmonary vasculature are within normal limits.



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The bronchial tree presents with regular branching and tapers uniformly towards the periphery as expected, the bronchial walls are thin and smooth. The bronchus-to-artery ratio is within normal limits.

The lung parenchyma presents the expected architecture and attenuation behavior.

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Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.

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COMPUTED TOMOGRAPHIC DIAGNOSIS

- Monostotic semi-aggressive osteolytic lesion right body of mandible, level with absent 408
- Multiple absent teeth
- Non-specific subcutaneous nodule level L2
- No evidence of pulmonary metastatic disease

SEX

Male Neutered

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The segmental osteolytic lesion of the right body of the mandible level with absent triadan 408 would fit the history of right mandibular osteosarcoma and complete surgical excision by segmental right sided hemimandibulectomy appears feasible. Osteotomy lines should be distal to triadan 409 and mesial to triadan 406.

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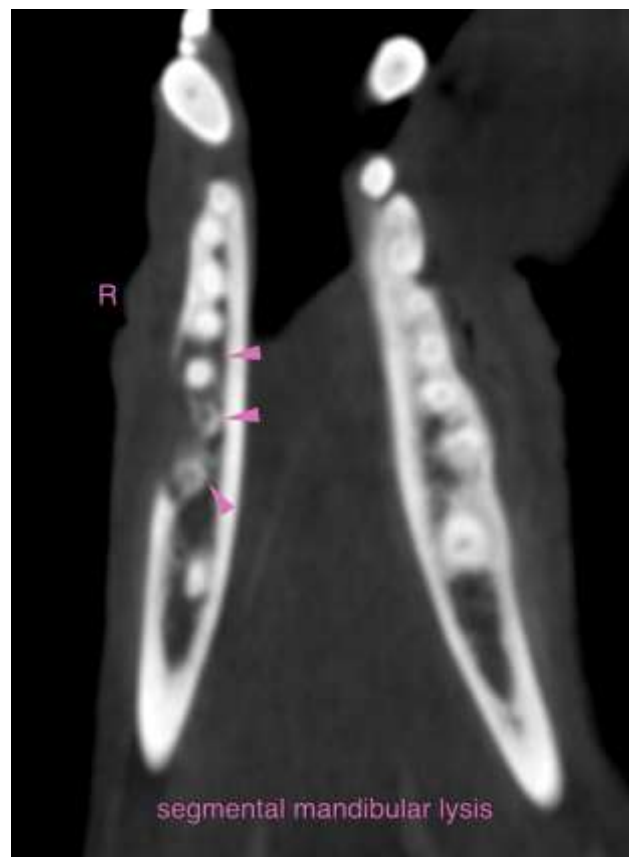
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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