



PATIENT

Mittie Costello

PRESENTING CLINICAL SIGNS

Hard boney mass on the left side of the jaw. First noticed on 12/6/21. E/D ok.

SPECIES

Feline

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD, NECK, & THORAX

Plain study available for review.

BREED

Domestic Short Hair

COMPUTED TOMOGRAPHIC FINDINGS

Head

An approximately 2.0 cm sized ovoid expansile osteoproliferative mass of the left mandibular coronoid process is seen. The mass presents severe stippled ossification and permeative aggressive osteolysis of the coronoid process of the mandible. Part of the mass encompasses the condylar fossa of the temporomandibular joint.

SEX

MN

There is a severe mass effect onto the left external auditory meatus from a rostroventral aspect.

AGE

3 Years

Neck

Both lobes of the thyroid gland are seen and present within normal limits.

Number, alignment, and anatomy of the cervical vertebrae present within normal limits.

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

Thorax

The sternal, cranial mediastinal and tracheobronchial lymph nodes are small elongated with a normal short-to-long-axis-ratio.

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.

REFERRING VET

Dr. Fugazzi

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

A 2.0 cm sized fat attenuating structure with soft tissue attenuating thin peripheral rim is seen in the left cranioventral abdomen.

INVOICE

49582

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Osteoproliferative and osteolytic mass with aggressive biological behavior of the left mandibular coronoid process.
- Potential jaw lock and extraluminal stenosis of the left external auditory meatus.
- Ring artifact versus nodular lipomatosis in the cranial abdomen.

DATE

1-12-22



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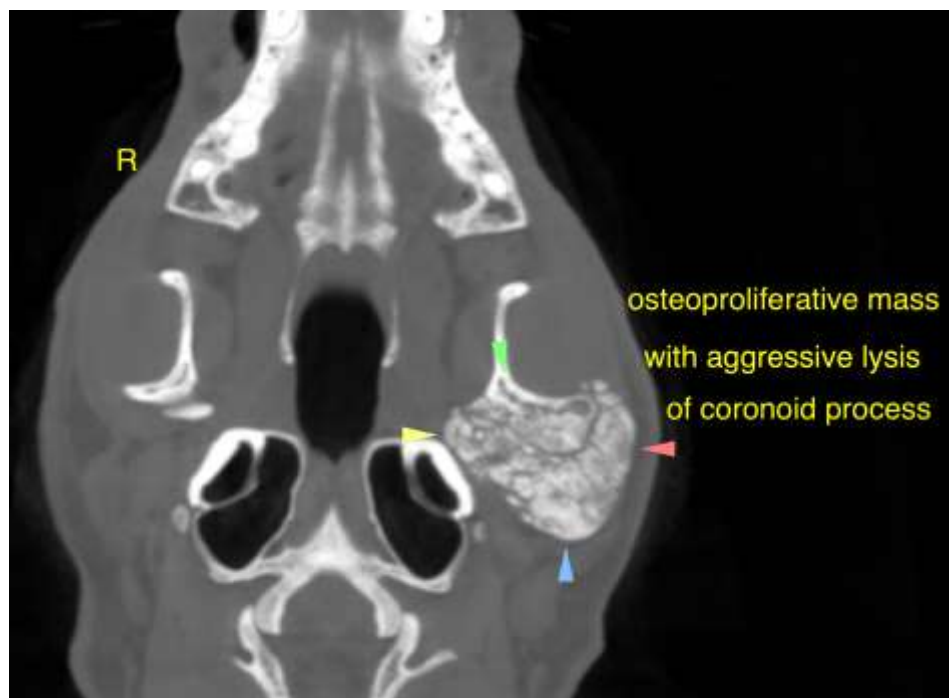
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The CT findings are highly suggestive for multilobulated osteosarcoma/chondrosarcoma rodens. Differential diagnosis includes osteosarcoma, chondrosarcoma. Final diagnosis may require histology, however, the changes are very typical for multilobulated osteosarcoma. Multilobulated sarcoma tends to present with locally invasive growth; however, metastatic disease is rare. Complete resection is likely to require temporomandibular joint resection in this case. Tumor recurrence is one of the potential complications in multilobulated osteosarcoma.

The CT study of the thorax revealed no evidence of pulmonary metastatic disease.

The ring like structure in the left cranioventral abdomen is likely to represent ring artifact secondary to detector miscalibration; however, nodular lipomatosis cannot be ruled out which typically is an incidental finding of no clinical significance.





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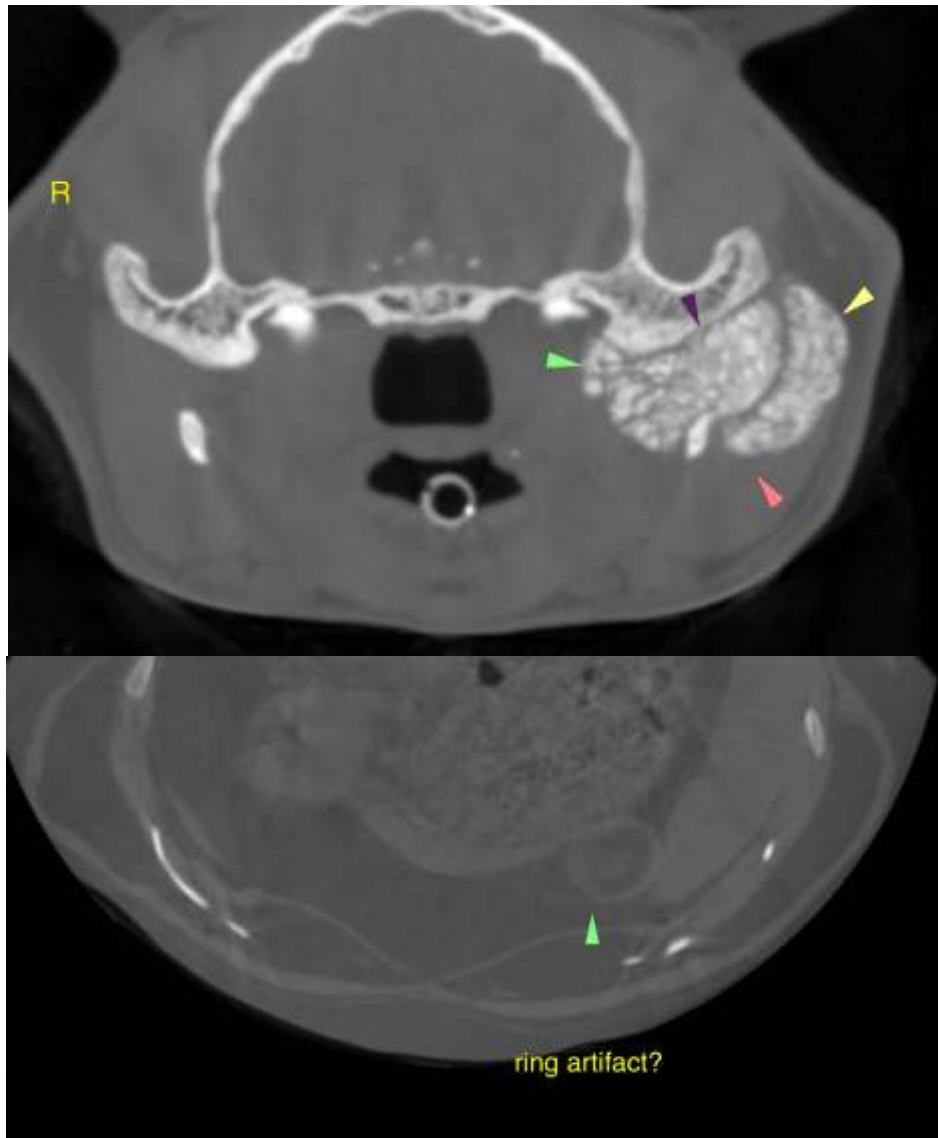
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Nele Eley, DVM, Dr. med. vet., DipECVDI
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