



PATIENT

Jake Sparks

PRESENTING CLINICAL SIGNS

Left zygomatic arch spindle cell tumor extending to the ramus of the left mandible -- suspected osteosarcoma, fibrosarcoma, or multilobular tumor of bone based on CT images
Abnormal PE/Chem/CBC/UA Results: 4 x 4 cm left caudal maxillary mass

SPECIES

Canine

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD, THORAX, & CRANIAL ABDOMEN

Plain studies of the head and plain and post contrast studies of the thorax and cranial abdomen in soft tissue, bone, and lung windows available for review.

BREED

Shepherd X

COMPUTED TOMOGRAPHIC FINDINGS

The patient is obese.

SEX

MN

Head

An ovoid 4.6 x 4.0 cm sized mass with multiple stippled mineralizations is emerging from the rostral aspect of the left mandibular coronoid process. The mass presents retromolar and retrobulbar extension with lateral deviation and thinning of the left zygomatic arch as well as dorsal displacement of the left eye. Thinning of the floor of the left bony orbita is noted as well. Permeative aggressive osteolytic defects are seen on the coronoid process of the left mandible.

AGE

6 Years

The regional lymph nodes present within normal limits.

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

Thorax

The bony and surrounding soft tissue structures are within normal limits.

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 are uniform and considered within normal limits.

HOSPITAL NAME

Animal Health
Partners

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

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.

REFERRING VET

Dr. Jerome Gagnon
DACVIM (Oncology)

The lung parenchyma presents the expected architecture and attenuation behavior.

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

INVOICE

48079

Abdomen

The adrenal glands are within normal limits for size, shape and organ architecture.

DATE

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Both liver and spleen present with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.



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REFERRING VET

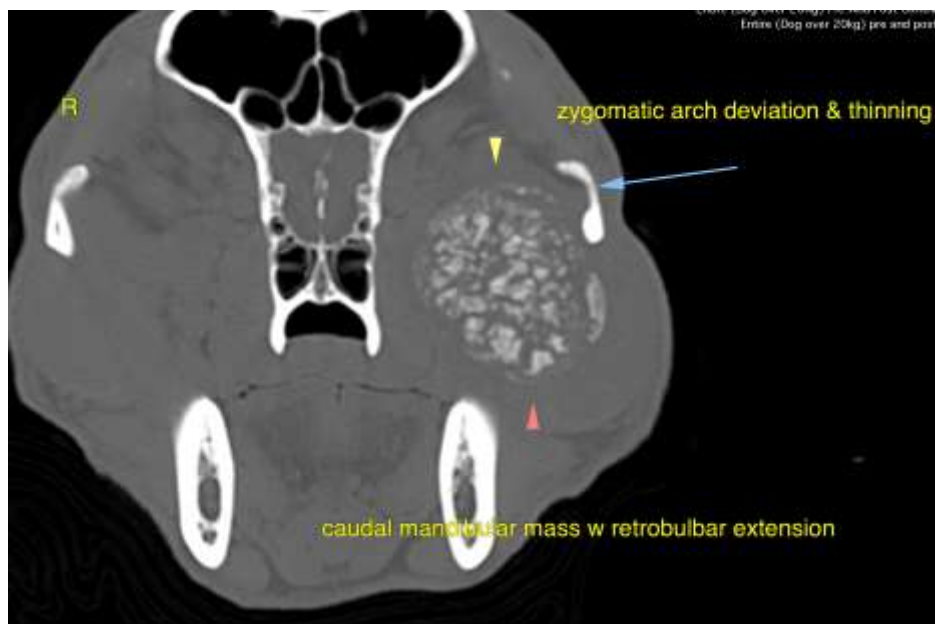
Dr. Jerome Gagnon
DACVIM (Oncology)

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Left caudal mandibular mass with stippled mineralization and retrobulbar extension.
- Thinning and deviation of the left zygomatic arch and bony orbita.
- Left sided exophthalmos.
- Potential for jaw lock.
- No evidence of regional metastatic disease.
- No evidence of pulmonary metastatic disease.
- Normal cranial abdomen.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The CT findings are compatible with multilobulated osteosarcoma of the left caudal mandible. Other primary neoplasia of bone such as osteosarcoma, chondrosarcoma, and other cannot be ruled out entirely but are thought by far less likely. The deviation and thinning of the left zygomatic arch and bone orbita are likely to represent pressure related atrophy; however, infiltrative behavior cannot be ruled out entirely. Consider jaw lock a potential. The caudal maxilla, zygomatic arch, bony orbita, and left eye are immediately adjacent to the mass. The minimum distance between the mass and the temporomandibular joint is 1.5 cm.



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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.

HOSPITAL NAME

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Partners

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.

REFERRING VET

Dr. Jerome Gagnon
DACVIM (Oncology)

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