



PATIENT PRESENTING CLINICAL SIGNS

Yolanda Hart Firm swelling that started near R ear canal. She did have a dental procedure June 2021 and the issues seemed to start about 10 days later. Met check.
Abnormal PE/Chem/CBC/UA Results: Mild anemia, mild increase in ALT, TP.

SPECIES COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN

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

BREED COMPUTED TOMOGRAPHIC FINDINGS

Domestic Shorthair Skull

SEX Multiple teeth are absent.

FS In the region of the right external ear canal, there is a large, ill-defined, soft tissue attenuating and heterogeneous moderate contrast enhancing mass visible. The mass is extending caudally up to the level of C1/C2 and rostrally up to the level of the ramus of the right mandible. In the medial aspect the mass is extending into the retropharyngeal tissue and extending into the right tympanic bulla. At the caudal aspect of the right tympanic bulla, extensive osteolysis of the osseous lamella between the tympanic bulla and the mass is present, perforating the cranial fossa with mild mass effect on the brain. The right occipital & temporal bone, right ramus of the mandible and right ala of C1 present permeative osteolytic lesions and immature periosteal new bone formation. The right external ear canal is obliterated by the mass effect. In the most cranial aspect of the right jugular vein and its hyoid arch, a filling defect is seen.

AGE 4 Years In the left tympanic bulla, a mild to moderate amount of mild contrast enhancing material is attached to the osseous lining. The left tympanic bulla presents multifocal osteolytic lesions and mild hyperostosis.

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

HOSPITAL NAME

Animal Health Care
Denver

The regional lymph nodes of the skull are moderately enlarged, R>L.

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

REFERRING VET

Cathryn Sayer

The thyroid glands are prominent.

Thorax

INVOICE The right superficial cervical lymph node is prominent.

49416 Level with the cranial thoracic aperture, multiple nodular lesions are seen within the cranial mediastinum, ventral to the trachea. The nodules appear to merge with the large cranial mediastinal vessels.

DATE

1-8-22

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



PATIENT normal limits.

Yolanda Hart The lung parenchyma presents the expected architecture and attenuation behavior.

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

Feline Abdomen

BREED The serosal fat presents normal attenuation behavior. There is no evidence of peritoneal effusion or peritonitis.

Domestic Shorthair Both kidneys present irregular margins. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted.

SEX The adrenal glands are within normal limits for size, shape and organ architecture. Both liver and spleen present with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.

FS

AGE The portal vein presents a normal order of its tributary veins and intrahepatic branching. No abnormal vessel is noted inside and outside of the liver parenchyma.

4 Years

The pancreas is evenly contoured, the pancreatic parenchyma is homogeneous and presents uniform contrast enhancement.

INTERPRETED BY The position, delineation, wall and content of the gastrointestinal tract are considered within normal limits throughout.

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

The bony and surrounding soft tissue structures reveal no abnormalities.

HOSPITAL NAME **COMPUTED TOMOGRAPHIC DIAGNOSIS**

Animal Health Care
Denver

- Large soft tissue mass right aspect of the calvarium
- Secondary polyostotic aggressive mixed osteolytic and osteoproliferative lesions associated structures of the skull, right mandible and C1 with perforation of the cranial fossa
- Thrombus formation right jugular vein, level with the mass
- Left sided aggressive osteolytic and osteoproliferative lesions left tympanic bulla
- Lymphadenopathy right mandibular, medial retropharyngeal lymph nodes bilaterally and right superficial cervical lymph node
- Nodular lesions cranial mediastinum, level with cranial thoracic aperture
- Possible (non)functional hyperplasia of thyroid glands
- Chronic nephropathy bilaterally
- No evidence of pulmonary metastatic spread

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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The large soft tissue mass is highly concerning for soft tissue neoplasm at the right aspect of the skull – possibly originating from the right external ear canal – and potentials include squamous cell carcinoma, ceruminous gland adenocarcinoma, fibrosarcoma, myxosarcoma, other. Secondary osteolytic lesions of the associated osseous structures and perforation of the cranial fossa. The enlarged lymph nodes and cranial mediastinal nodular lesions are suggestive for metastatic



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spread. The odds for granulomatous disease such as mycotic granuloma are considered very low. If not done so yet, recommend FNA sampling ± biopsy for further definition.

Due to the extent of the mass, treatment options are limited to palliative options.

SPECIES

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Domestic Shorthair

SEX

FS

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4 Years

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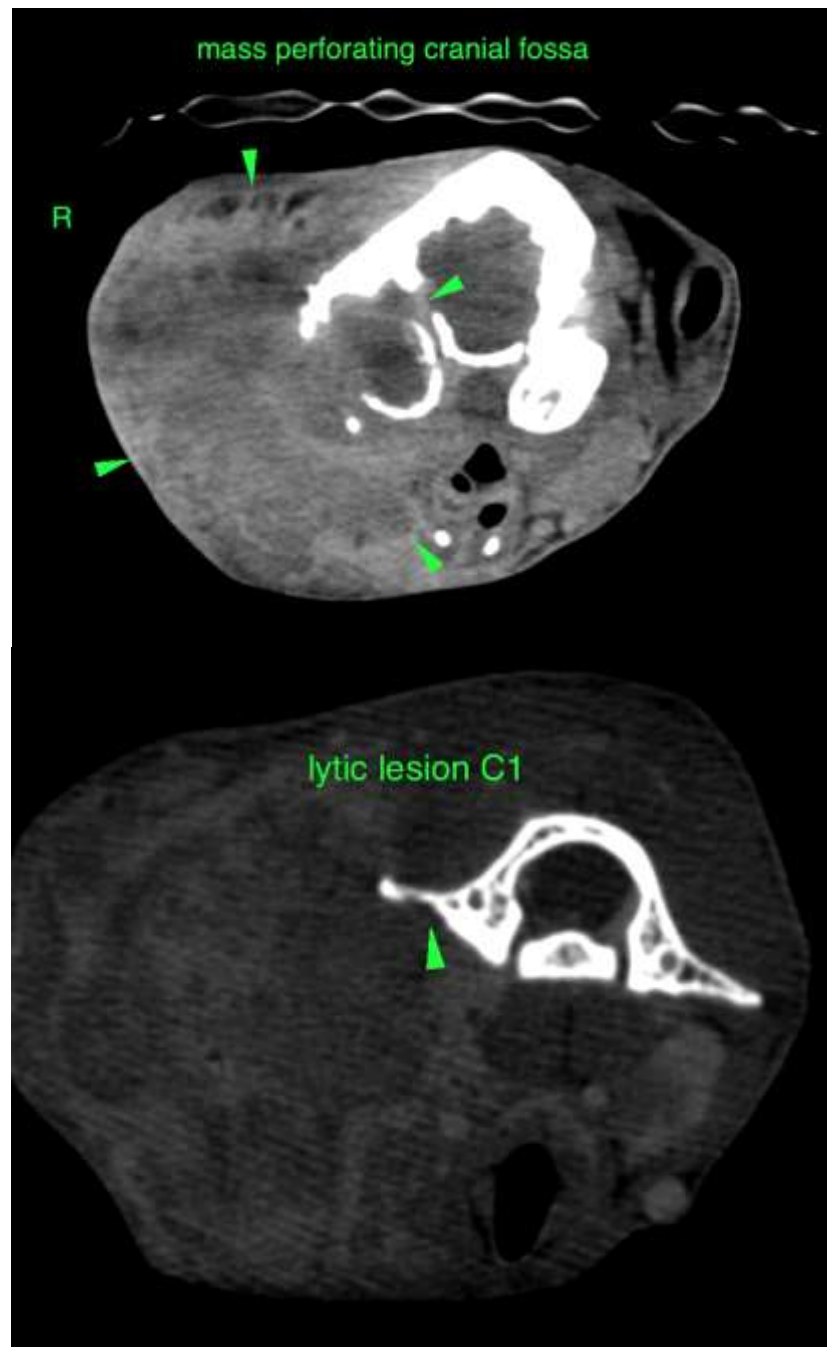
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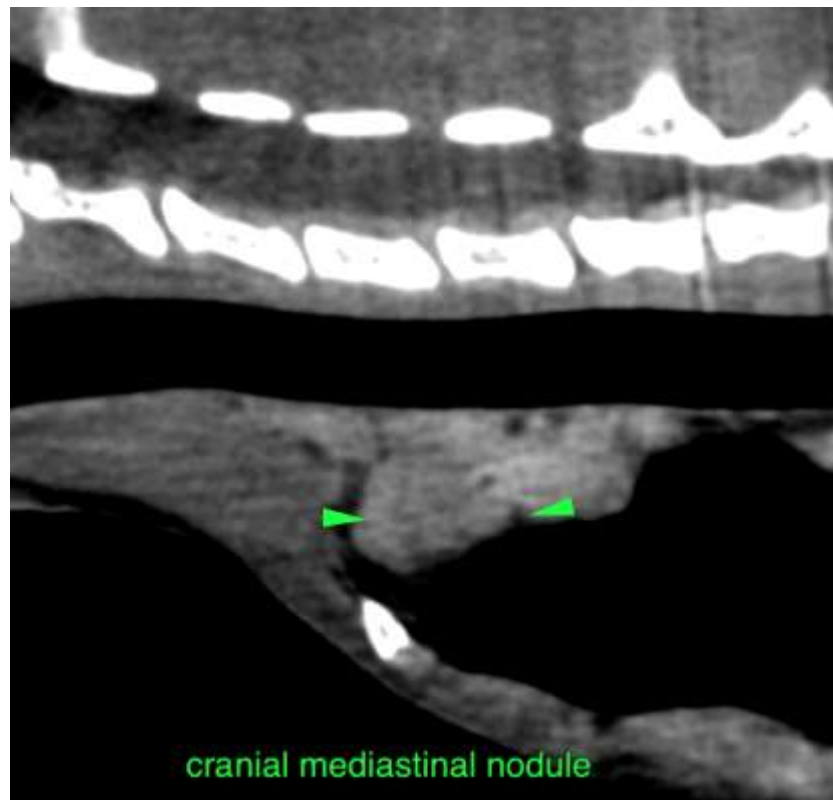
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Feline

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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Domestic Shorthair

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