



PATIENT PRESENTING CLINICAL SIGNS

Piper Buresch Hx of hepatic enzymopathy, cushing's suspect pituitary dependent, pancreatitis, adrenal mass - suspect malignant. Metanephrines normal. AUS was performed showing the mass on the right adrenal gland was largely unchanged in size from the previous visit. Right submandibular, prescapular lymph node were enlarged. Cytology findings consistent with metastatic mast cell neoplasia. CT scan to look for a primary tumor, surgical planning and staging

SPECIES

Canine Abnormal PE/Chem/CBC/UA Results: 2 cm right mandibular lymph node. Other lymph nodes of normal size and consistency. 1.8 cm sq mass right shoulder

BREED

Cockapoo

COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN

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

COMPUTED TOMOGRAPHIC FINDINGS

SEX

Skull

MN

Multiple teeth are absent.

AGE

12 Years

The right nasal cavity is obliterated by an expansile, uniform soft tissue attenuating and moderate contrast enhancing mass. The nasal septum is deviated by the mass effect and presents zones with perforation and the right nasal mass is bulging into the left nasal cavity. The right maxillary bone presents multifocal moth eaten osteolytic lesions and mild immature periosteal new bone formation at the right dorsolateral aspect. The right aspect of the cribriform plate, being in contact with the nasal mass is perforated.

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

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

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Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external ear canals are within normal limits.

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.

REFERRING VET

Jerome Gagnon

The right mandibular and medial retropharyngeal lymph nodes are significantly enlarged, rounded, uniform soft tissue attenuating and contrast enhancing. The right parotid lymph node is prominent.

Thorax

The periarticular bones of both shoulder joints present moderate osteophyte new bone formation.

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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.

DATE

8-17-23

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.



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

Piper Buresch

Abdomen

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

Canine Both kidneys present within normal limits for size, shape and organ architecture. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted.

BREED Originating from the right adrenal gland, a mild irregular soft tissue attenuating and contrast enhancing mass is appreciated, measuring 2.6 x 2.2 x 2.1 cm.

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

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

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

AGE The bony and surrounding soft tissue structures reveal no abnormalities.

12 Years

COMPUTED TOMOGRAPHIC DIAGNOSIS

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Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

- Biologically aggressive right nasal soft tissue neoplasm with secondary polyostotic aggressive osteolytic lesions of the associated osseous structures and perforation of the cranial fossa
- Lymphadenopathy right mandibular, right parotid and right medial retropharyngeal lymph nodes
- Right adrenal soft tissue mass without signs of vascular invasion
- Multiple absent teeth
- No evidence of pulmonary metastatic disease

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Jerome Gagnon

The intranasal soft tissue mass in combination with the cystology results is highly suggestive for intranasal mast-cell tumor and metastatic spread to the regional lymph nodes. Differentials include adenocarcinoma, squamous cell carcinoma, transitional cell carcinoma, lymphosarcoma, other. Rhinoscopy including biopsy can be used as advanced diagnostic tests. The Adam tumor stage is T4.

The right adrenal soft tissue mass can present (non)functional adrenal neoplasma – such as adenoma, adenocarcinoma, pheochromocytoma.

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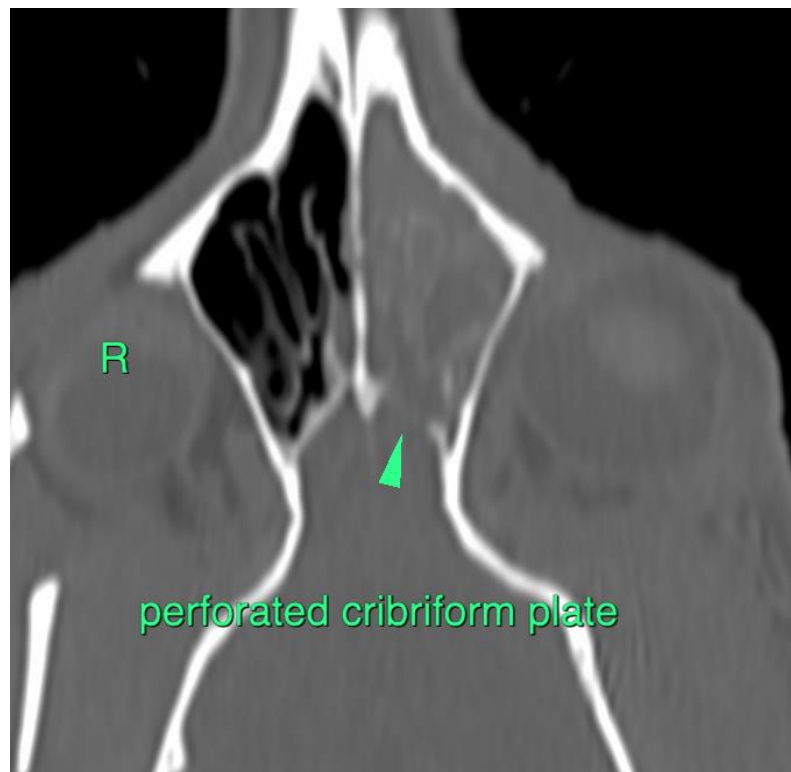
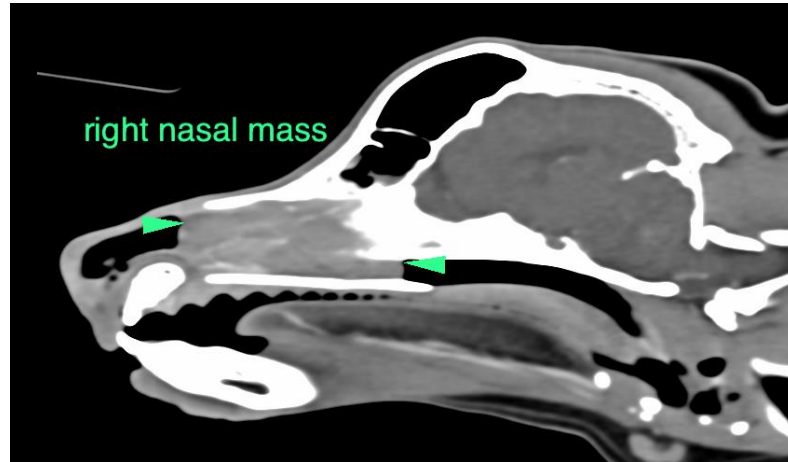
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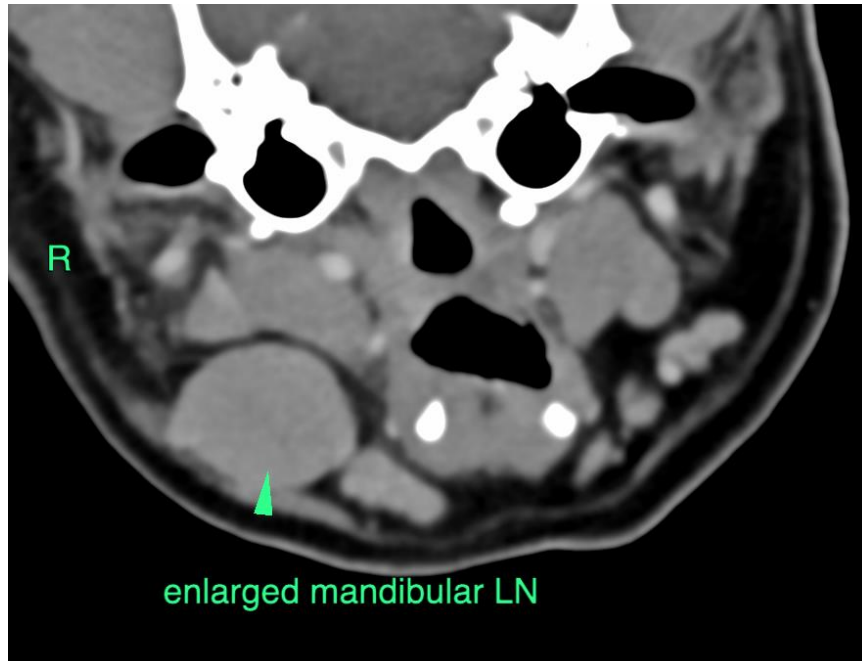
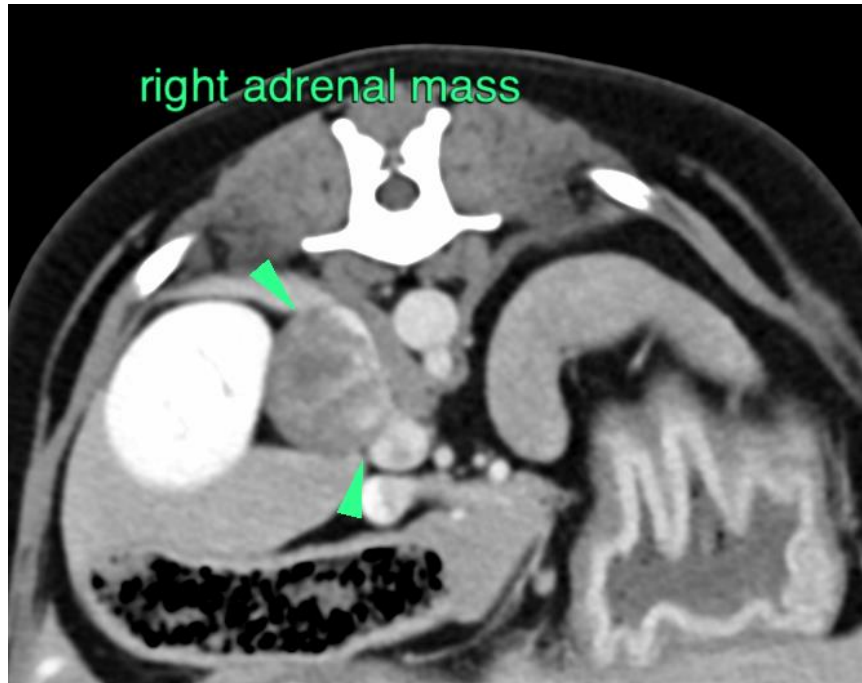
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Piper Buresch

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.

SPECIES

Canine

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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