



PATIENT PRESENTING CLINICAL SIGNS

Oliver Lomas Oliver Presents for a diffuse swelling in the neck and radiographic evidence of pulmonary nodules. Owner states that Oliver had this small lump that started about a little over 1 week ago and has gotten progressively bigger and the area has now started to bruise in that area.

SPECIES COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN

Canine A high resolution pre- and post-contrast CT study of the skull, thorax and abdomen is provided for review.

BREED COMPUTED TOMOGRAPHIC FINDINGS

Pug Skull

Multiple teeth are absent.

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

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

AGE Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. In the right periauricular soft tissues, an ill-defined, mild irregular contrast enhancing soft tissue swelling is appreciated – extending from the pinna ventrally up into the retropharyngeal region and caudally up to the level of C1/C2. The soft tissue swelling is deviating the retropharyngeal and submandibular structures to the left and dorsally.

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INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

A second diffuse soft tissue swelling with a heterogeneous contrast enhancement pattern is appreciated along the ventral aspect of the neck, level with C3 to C5.

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Veterinary

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.

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

REFERRING VET

Thorax

Dr. Young Multifocal moderate spondylosis formation is seen along the thoracic spine.

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.

INVOICE

57832 The cardiovascular structures including the pulmonary vasculature are within normal limits.

DATE

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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.

Multifocal throughout the lung parenchyma, randomly distributed, well-defined soft tissue attenuating nodules are visible, measuring up to 12 mm in diameter. In the parenchyma of the right caudal lung lobe, a central gas attenuating lesion is visible, presenting an irregular thickened soft tissue



PATIENT attenuating lining. Multiple gas attenuating, roundish lesions are seen in multiple lung lobes, demarcated by a thin soft tissue attenuating capsule.

Oliver Lomas

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

SPECIES Abdomen

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

BREED Both kidneys present within normal limits for size, shape and organ architecture. A small amount of mineral attenuating material is associated with the renal pelvis bilaterally. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted. In the urinary bladder, a small amount of sedimented, mineral attenuating material is appreciated.

Pug

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

SEX

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

MN

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

AGE

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

INTERPRETED BY The bony and surrounding soft tissue structures reveal no abnormalities.

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COMPUTED TOMOGRAPHIC DIAGNOSIS

- Ill-defined soft tissue mass right caudolateral aspect of the skull – region of the right ear – and ventral aspect of the neck
- Structured nodular interstitial lung pattern
- Thick walled cavitory pulmonary lesion right caudal lung lobe
- Pulmonary bullae
- Mild bladder sand
- Mild nephrolithiasis without signs of mechanical obstruction
- Multiple absent teeth
- Spondylosis deformans

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REFERRING VET

Dr. Young

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The ill-defined soft tissue masses at the right lateral aspect of the skull and the ventral aspect of the neck are consistent with primary soft tissue neoplasm – such as sarcoma or carcinoma – and secondary pulmonary metastatic spread. Recommend FNA sampling of the mass ± biopsy for further differentiation. Due to the ill-defined margins and diffuse extension into the retropharyngeal tissue, complete surgical excision of the mass is considered not feasible. Recommend discussing possible palliative treatment options with oncologist, based on the results of the advanced diagnostic tests.

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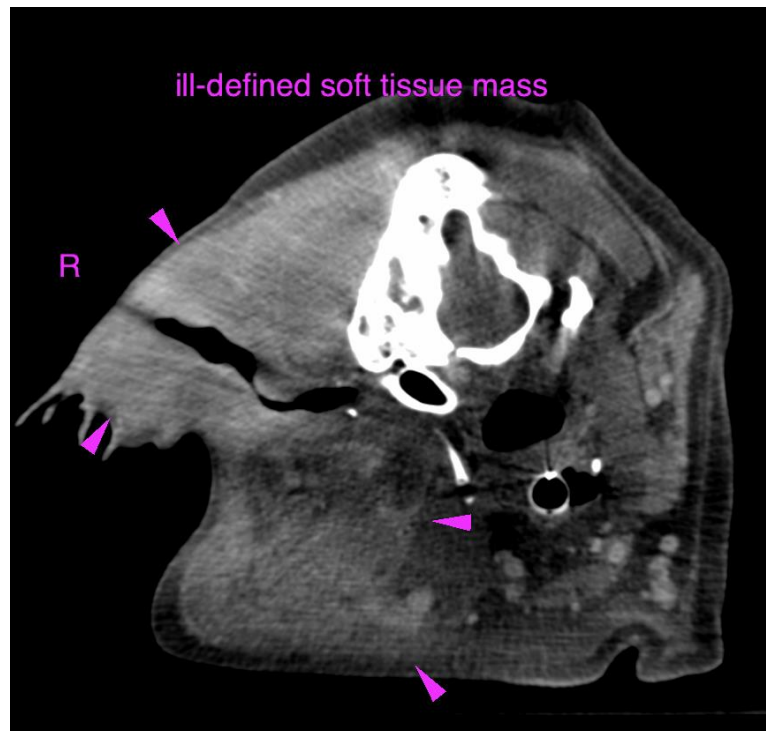
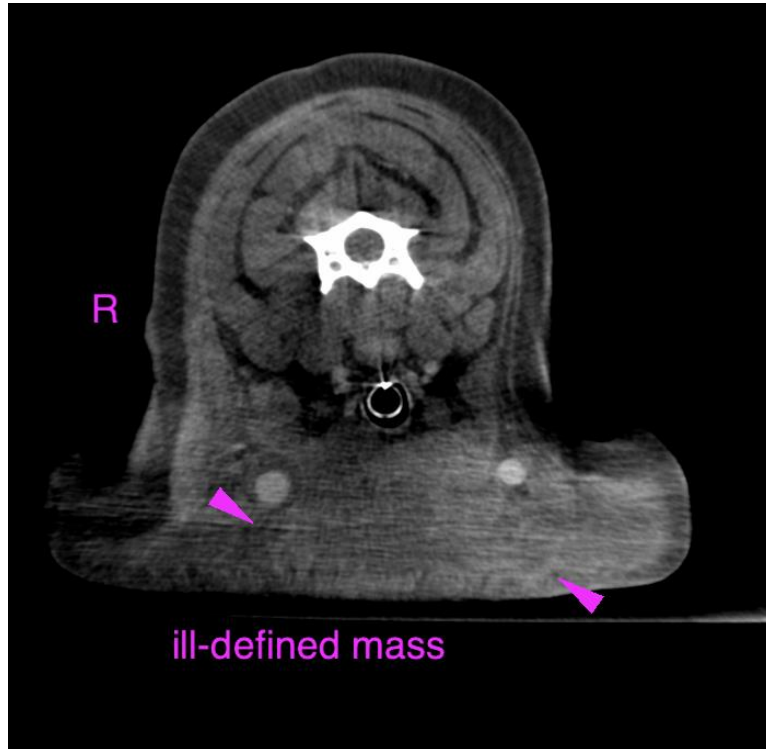
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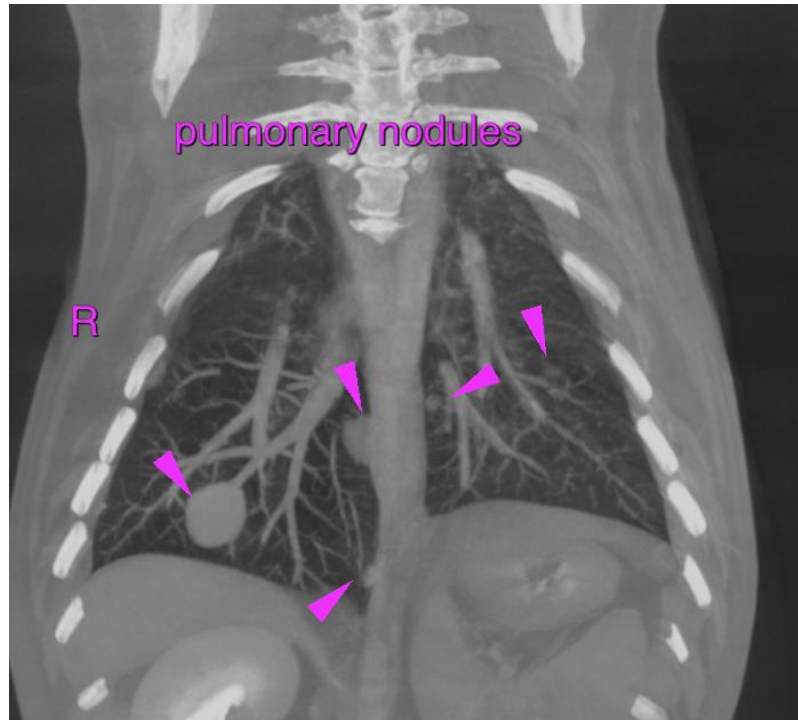
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Sebastian Schaub, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI
sebast.schaub@gmail.com