

Diagnostic Imaging

Veterinary CT, Ultrasound & Telectology Services
veterinarian referral only

PATIENT PRESENTING CLINICAL SIGNS

Pepper Nagle CT scan of right mandible/thorax/abdomen. Diagnosed with osteosarcoma. Needs CT for surgical planning and staging.

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 is provided for review.

COMPUTED TOMOGRAPHIC FINDINGS

BREED Skull

DSH Triadan 404 and 407 are absent. Centered on the rostral segment of the right mandible, an ill-defined, uniform soft tissue attenuating and irregular mild contrast enhancing mass is seen; measuring approximately 1.7 x 1.9 x 2.4 cm. The rostral half of the right mandible presents permeative osteolysis - crossing the mandibular symphysis and the most rostral segment of the body of the left mandible presents a zone with osteolysis. Osteolysis and sclerosis of the body of the right mandible can be appreciated up to the level of the caudal half of the right mandible.

SEX

Male Neutered

AGE

5Y

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

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

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.

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet.
DipECVDI

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.

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The right mandibular lymph nodes and right deep cervical lymph node are prominent.

Thorax

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

REFERRING VET

Dr. Christensen

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.

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.

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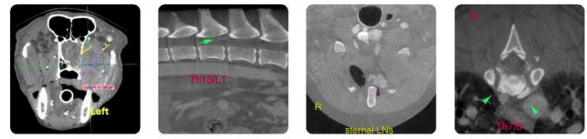
The lung parenchyma presents the expected architecture and attenuation behavior.

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

DATE

3-19-26

Abdomen



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

Pepper Nagle

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.

SPECIES

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

Feline

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

BREED

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

DSH

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

SEX

The bony and surrounding soft tissue structures reveal no abnormalities.

Male Neutered

COMPUTED TOMOGRAPHIC DIAGNOSIS

AGE

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- Polyostotic aggressive osteolytic lesions entire body right mandible and most rostral segment left mandible with associated soft tissue mass
- Mild lymphadenopathy right mandibular lymph nodes and right deep cervical lymph node
- Absent triadan 404 and 407
- Normal thorax, no evidence of pulmonary metastatic disease
- Normal abdomen

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

History of osteosarcoma right mandible – affecting the entire body of the right mandible and symphyseal part of the left mandible. Complete surgical resection will warrant right sided hemimandibulectomy and left sided segmental rostral mandibulectomy.

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The prominent right mandibular lymph nodes and right deep cervical lymph node are equivocal for reactive lymphoid hyperplasia versus metastatic disease – FNA sampling can be performed for specification.

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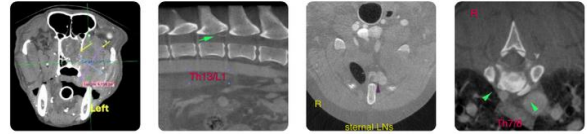
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141 Main St, Andover, NJ 07821

PATIENT

Pepper Nagle

SPECIES

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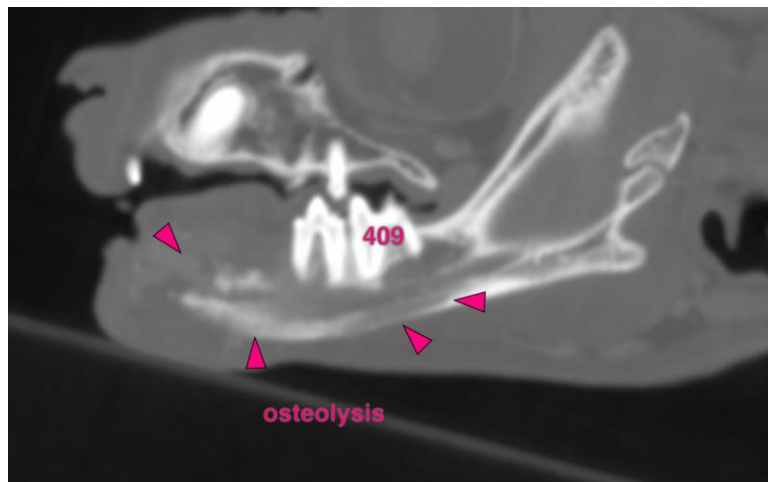
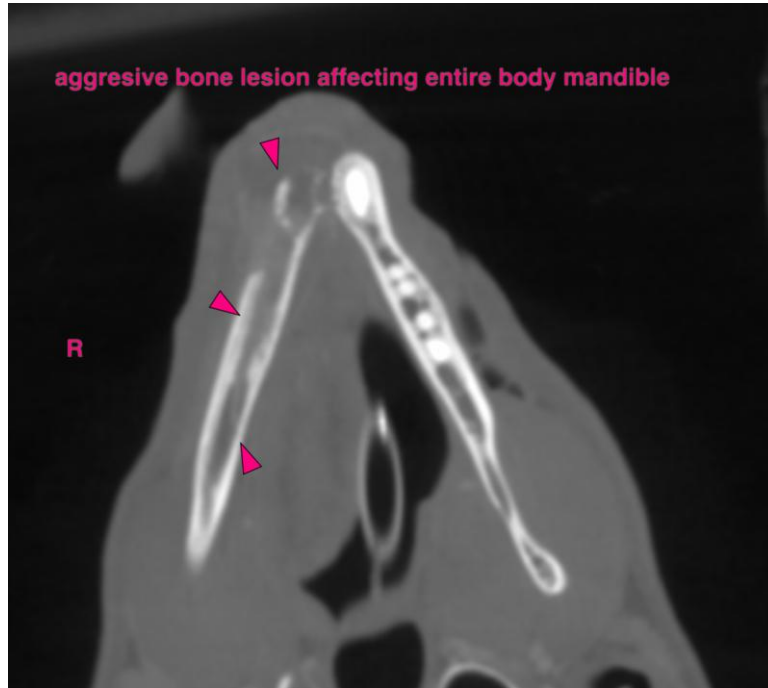
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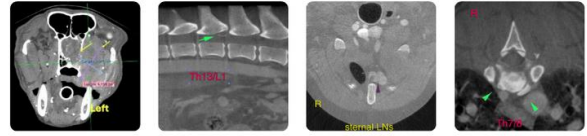
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Pepper Nagle

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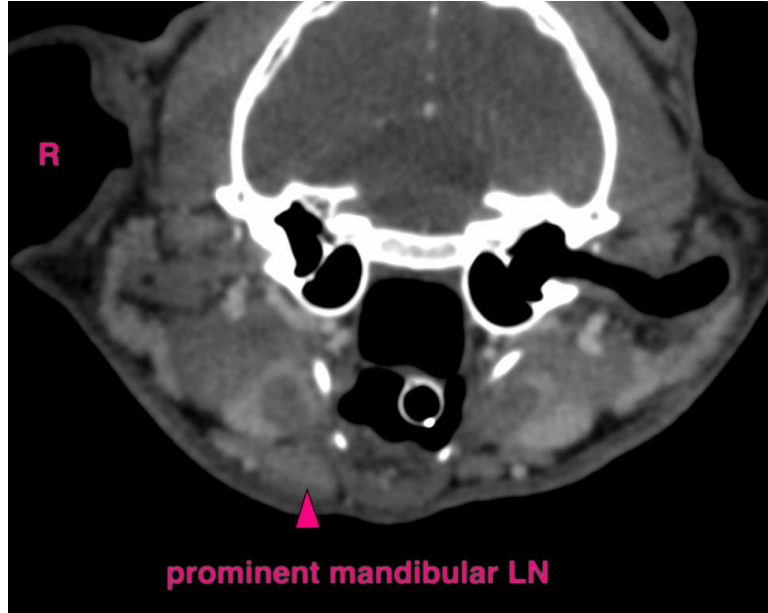
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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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