

**PATIENT**

Ludwig Mueller

PRESENTING CLINICAL SIGNS

Presented for bilateral submandibular and right prescapular swelling.
Abnormal PE/Chem/CBC/UA Results: Normal

SPECIES

Canine

COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN

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

BREED

American Bulldog

COMPUTED TOMOGRAPHIC FINDINGSSkull

Multiple teeth are absent.

SEX

MI

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.

AGE

6

Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external ear canals are thickened and narrowed. Both external ear canals present mild to moderate shell-like mineralization.

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.

The mandibular lymph nodes bilaterally, R>L, are moderately enlarged, rounded, uniform soft tissue attenuating with a post contrast heterogeneous contrast enhancement pattern presenting hypoattenuating intraparenchymal lesions.

HOSPITAL NAME

Northeast Veterinary
Referral Hospital

The right superficial cervical lymph node is markedly enlarged (measuring up to 6.8 cm in size), rounded, uniform soft tissue attenuating and heterogeneous contrast enhancing. The surrounding fat presents moderate fat-stranding.

REFERRING VET

Dr. Runde

Thorax

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

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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

10-7-21

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.



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

Abdomen

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

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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.

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

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The liver presents with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.

The spleen is prominent with mild rounded margins. The splenic parenchyma is uniform soft tissue attenuating and contrast enhancing.

AGE

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

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

INTERPRETED BY

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Multiple vertebral endplates of the lumbar spine are mildly protruding into the vertebral canal. The vertebral endplates of the lumbosacral junction present moderate spondylosis formation.

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Lymphadenopathy mandibular lymph nodes bilaterally and right superficial cervical lymph node
- Splenomegaly
- Chronic otitis externa with dystrophic mineralization
- Multiple absent teeth
- Multifocal mild intervertebral disc protrusion lumbar spine without compressive myelopathy
- Spondylosis deformans
- Normal thorax, no evidence of pulmonary metastatic disease

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REFERRING VET

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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There is lymphadenopathy of the mandibular lymph nodes bilaterally and the right superficial cervical lymph node explaining the clinically described swelling. Neoplastic transformation is considered as the top differential – such as lymphoma, mast-cell tumor, carcinoma. Granulomatous inflammation is a potential but considered less likely. If not done so yet, FNA sampling is mandatory for further definition.

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The splenomegaly is not specific and can be accentuated by pooling of blood secondary to general anesthesia. Splenitis or diffuse neoplastic infiltration are differentials and ultrasound guided FNA sampling can be used as an advanced minimally non-invasive diagnostic test.



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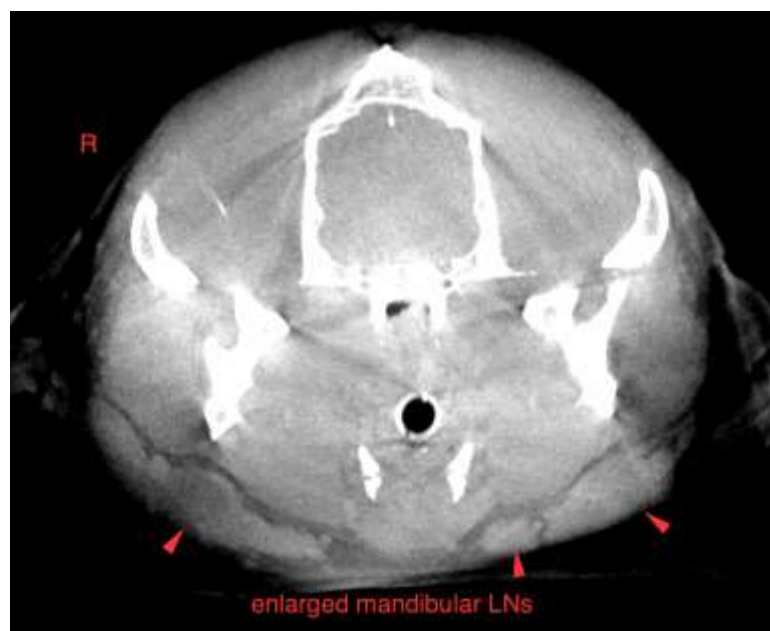
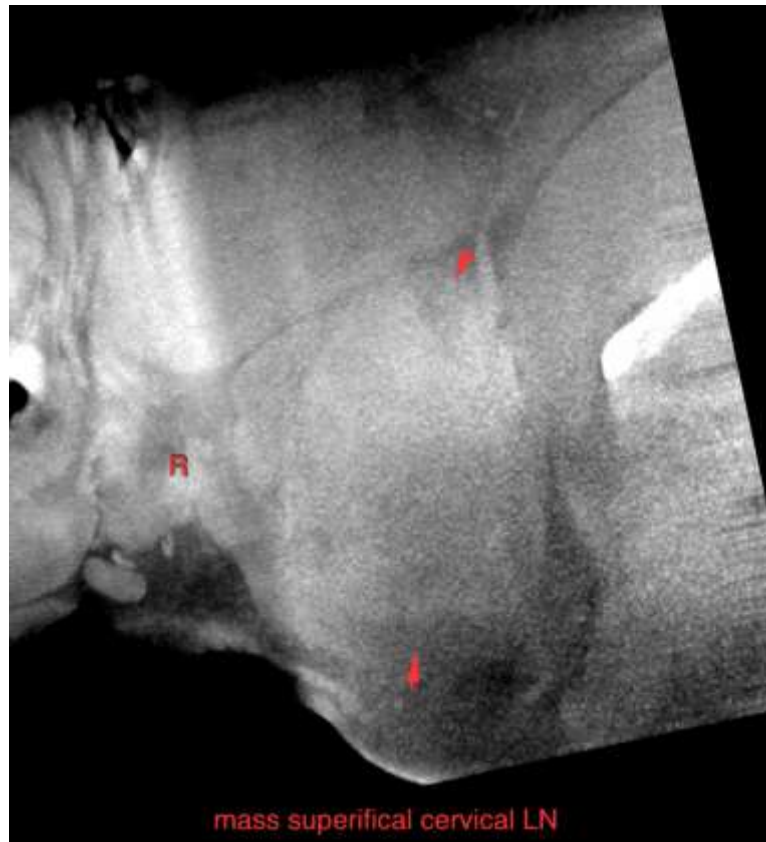
Dr. Runde

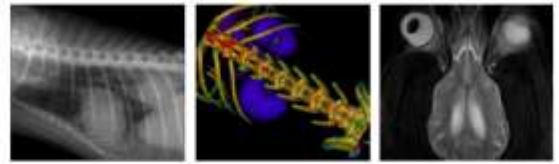
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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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