


PATIENT PRESENTING CLINICAL SIGNS

Duke Wilson Presented to the Toronto Animal Health Partners Surgery Service for concern for a neck mass and bone tumor in his left pelvic limb. He originally presented to Golf Glen Veterinary Clinic on The neck mass noticed in May 2023. BW was normal at that time. FNA consistent with mesenchymal proliferation with concern for a possible STS. It responded well to Meloxicam and Clavaseptin. June 27, 2023 for non-weight bearing lameness of the left pelvic limb. He was treated with Liberella and Metacam due to suspected cruciate disease. He presented back on July 27, 2023 for continued NWB lameness in the left pelvic limb where radiographs were obtained and concerning for a bone tumor. He has a history of a L extracapsular repair in 2021. Performed CT with pre, post, and delayed contrast of entire body.

SPECIES

Canine

BREED

 English Springer
Spaniel

COMPUTED TOMOGRAPHIC STUDY OF THE SKULL, THORAX AND ABDOMEN

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.

SEX

Neutered Male

COMPUTED TOMOGRAPHIC FINDINGS

Skull
The tooth element 107 is absent. The periodontal space of triadan 106 is moderately widened.

AGE

10 Years

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.

INTERPRETED BY

 Sebastian Schaub,
DVM Dr. med. vet.
DipECVDI

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.

HOSPITAL NAME

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The right medial retropharyngeal lymph node is significantly enlarged, homogeneous soft tissue attenuating and has a heterogeneous contrast enhancement pattern. The right retropharyngeal mass is measuring 4.3 x 3.7 x 8.2 cm, deviating the larynx to the left.

REFERRING VET

Dr. Debbie Reynolds

The thyroid glands are normal in size, shape and attenuation behavior.

The left hypaxial musculature between the transverse process of C2 and C3 presents a focal contrast enhancing lesion.

INVOICE

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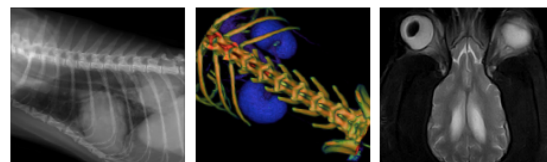
Thorax & Front limbs

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

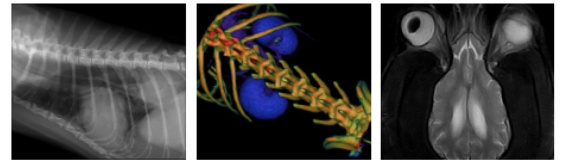
Both elbow joints present very mild osteophyte formation along the capitulum of the radius. The medial coronoid process of both elbow joints is mildly irregular and as a mild decreased density.

DATE

8/9/23



PATIENT	The metacarpophalangeal joints of the right front paw present generalized mild to moderate osteophyte new bone formation.
Duke Wilson	
SPECIES	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.
Canine	The cardiovascular structures including the pulmonary vasculature are within normal limits.
BREED	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.
English Springer Spaniel	Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.
SEX	<u>Abdomen & Hind limbs</u> The serosal fat presents normal attenuation behavior. There is no evidence of peritoneal effusion or peritonitis.
Neutered Male	
AGE	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.
10 Years	The adrenal glands are within normal limits for size, shape and organ architecture.
INTERPRETED BY	In the right lateral liver lobe, a well-defined, roundish parenchymal filling defect is seen. The liver presents with normal shape, even surface. The remainder of the hepatic parenchyma are uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.
Sebastian Schaub, DVM Dr. med. vet. DipECVDI	The spleen has irregular margins and multiple pre- and post contrast mild hypoattenuating nodular lesions are seen throughout the splenic parenchyma.
HOSPITAL NAME	The pancreas is evenly contoured, the pancreatic parenchyma is homogeneous and presents uniform contrast enhancement.
Animal Health Partners	The position, delineation, wall and content of the gastrointestinal tract are considered within normal limits throughout.
REFERRING VET	The left medial iliac lymph node is prominent.
Dr. Debbie Reynolds	A step formation is seen between L7 and S1. The lumbosacral intervertebral disc is protruding into the vertebral canal, occupying approximately 40% of the cross-sectional area of the vertebral canal at the same level.
INVOICE	The volume of the musculature of the left hind limb is moderately decreased in comparison to the right hind limb. The distal fourth of the left femur presents a mild ill-defined zone with advanced sclerosis of the medullary cavity and solid periosteal new bone formation at the same level.
44567	
DATE	The left popliteal lymph nodes are prominent.
8/9/23	



PATIENT The periarticular bones of both tarsal joints present mild osteophyte new bone formation.

Duke Wilson

COMPUTED TOMOGRAPHIC DIAGNOSIS

SPECIES

Canine

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- Heterogeneous contrast enhancing soft tissue mass region of the right medial retropharyngeal lymph node
- Monostotic semi aggressive osteoproliferative lesion distal diaphysis left femur
- Lymphadenopathy left popliteal and medial iliac lymph nodes
- Irregular spleen with heterogeneous contrast enhancement pattern
- Degenerative osteoarthritis shoulder joints and elbow joints bilaterally
- Focal contrast enhancing lesion left hypaxial musculature C2/C3
- Bilateral signs of coronoid disease
- Serial degenerative osteoarthritis metacarpophalangeal joints right front paw
- Degenerative osteoarthritis tarsal joints bilaterally
- Periodontal disease 106
- Absent triadan 107
- Spondylolisthesis lumbosacral junction
- Degenerative lumbosacral stenosis with likely dynamic compression of the cauda equina fibers
- Simple hepatic cyst
- No evidence of pulmonary metastatic disease

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

Sebastian Schaub,
DVM Dr. med. vet.
DipECVDI

The soft tissue mass in the right retropharyngeal region is likely originating from the right medial retropharyngeal lymph node – regarding the history, FNA results are suggestive for soft tissue sarcoma. No primary mass can be appreciated along the skull.

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The focal contrast enhancing lesion of the left hypaxial musculature is most suggestive for myositis, although metastasis is a potential – commonly more muscular lesions would be appreciated.

Although the odds for primary bone tumor or metastasis of the left distal femur are high the diagnosis is no definitive and the appreciated changes can be sequela to bone infarct. Bone biopsy is recommended for further workup as well as FNA sampling of the enlarged popliteal lymph nodes.

The irregular spleen is suggestive for chronic splenitis and nodular hyperplasia. Recommend FNA sampling to rule out neoplastic infiltration.

REFERRING VET

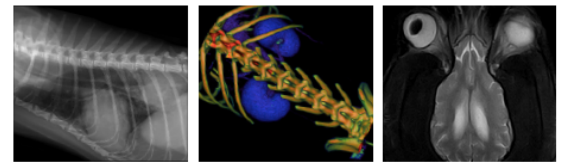
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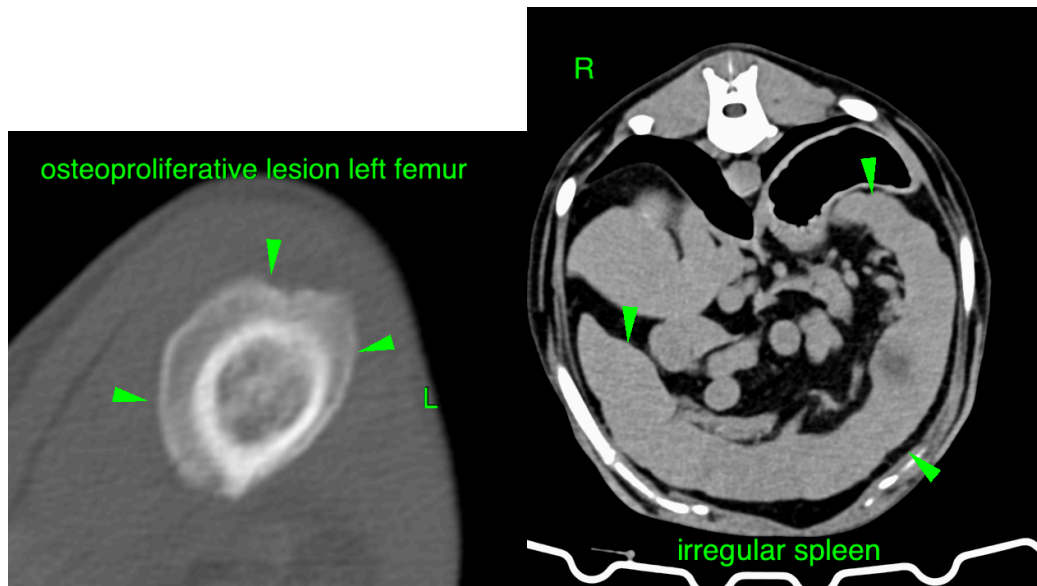
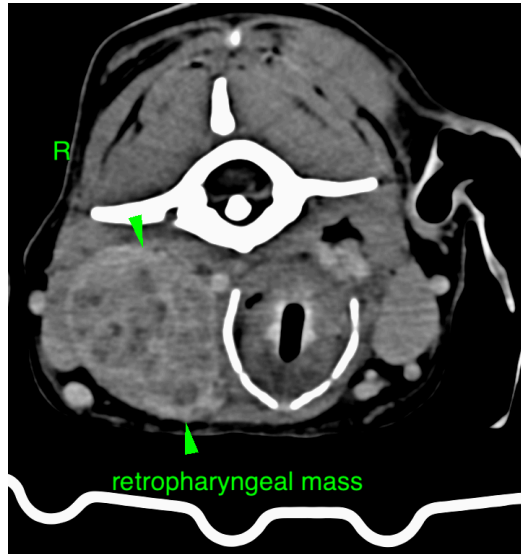
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
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