



**PATIENT PRESENTING CLINICAL SIGNS**

**Chupa Ainsworth**  
 Patient presented for a consultation after vomiting mucous with undigested food for the past 2 months. Owner is concerned that vomiting and throat started after dental cleaning in November of last year. Owner has been feeding slurried diet at home. RDVM is concerned of a deviation in the trachea or potential mass.

**SPECIES**  
 Canine  
 Abnormal PE/Chem/CBC/UA Results: CPL lipase abnormal CBC - RBC 8.89 M/uL Hemoglobin 20.8 g/dL Reticulocytes 158.2K/uL PDW 19.5 fL MPV 15.4 fL SDMA 20 ug/dL Sodium -161 Globulin 4.7 g/dL

**BREED COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN**

**Chihuahua /Mix**  
 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.

**COMPUTED TOMOGRAPHIC FINDINGS**

**SEX**  
Skull

**Spayed Female**  
 The tooth elements 105-107, 109, 110, 205-207, 210, 302, 303, 305, 306, 308-311, 405, 406, 408, 410 and 411 are absent. Triadan 108, 208, 209 and 409 present a moderate widening of the periodontal space. The remainder of the dentition present evidence of mild to moderate periodontal disease.

**AGE**  
 13 Years  
 Mild consolidation of the nasal cavity is appreciated.

**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.

The left tympanic bulla contains a small amount of soft tissue material. The external ear canals are within normal limits.

**HOSPITAL NAME**  
 Neel Veterinary Hospital  
 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.

**REFERRING VET**  
 Dr. Deepan Kishore  
 In the left trapezius muscle, level with C5, a small contrast enhancing nodule is visible.

Thorax

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 The most proximal aspect of the spine of the scapule is irregular with focal moth eaten osteolytic lesions. In the subcutaneous tissue at the lateral aspect of the left scapula, a fusiform shaped soft tissue nodule is visible, measuring 9 x 4 x 7 mm in size.

Post contrast administration, a contrast enhancing intramuscular lesion is seen in the left supraspinatus muscle.

**DATE**  
 8-23-22  
 The proximal third of the humerus bilaterally presents a heterogeneous sclerosis, demarcating roundish hypoattenuating lesions in the medullary cavity.

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



**PATIENT** uniform and considered within normal limits.

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

**SPECIES** 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.

Canine In the lateral aspect of the right caudal lung lobe, a gas filled roundish lesion is visible, demarcated by a thin soft tissue capsule, measuring 8 mm in diameter. The remainder of the lung parenchyma present the expected architecture and attenuation behavior.

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

Chihuahua /Mix

Abdomen

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

Spayed Female

Both kidneys present within normal limits for size, shape and organ architecture. After contrast administration both kidneys present with small roundish parenchymal filling defects, measuring <1 mm in size.

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

13 Years

Both liver and spleen present and increased volume with rounded margins, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.

**INTERPRETED BY**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

In the gallbladder, a solitary, well-defined mineralized body is seen, measuring 5.5 x 3.3 x 12 mm in size.

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

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

**REFERRING VET** The spinous process of L4 presents an ill-defined geographic osteolytic lesion. The iliac wing bilaterally presents heterogeneous sclerosis with multifocal moth eaten osteolytic lesions and lysis of the cortex. The pictured parts of the stifle joints present heterogeneous sclerosis with geographic osteolytic lesions.

Dr. Deepan Kishore

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

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- Polyostotic semiaggressive osteolytic and mild osteoproliferative lesions axial and appendicular skeleton
- Contrast enhancing intramuscular nodular lesion left supraspinatus muscle and left trapezius muscle
- Splenomegaly
- Hepatomegaly
- Multiple non-specific subcutaneous nodules
- Generalized advanced periodontal disease
- Cholecystolithiasis without signs of destruction
- Left sided otitis media

**DATE**  
8-23-22



**PATIENT**

Chupa Ainsworth

- Mild rhinitis
- Renal cortical cysts
- Multiple absent teeth, see above
- No evidence of pulmonary metastatic disease

**SPECIES**

Canine

**BREED**

Chihuahua /Mix

**SEX**

Spayed Female

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**REFERRING VET**

Dr. Deepan Kishore

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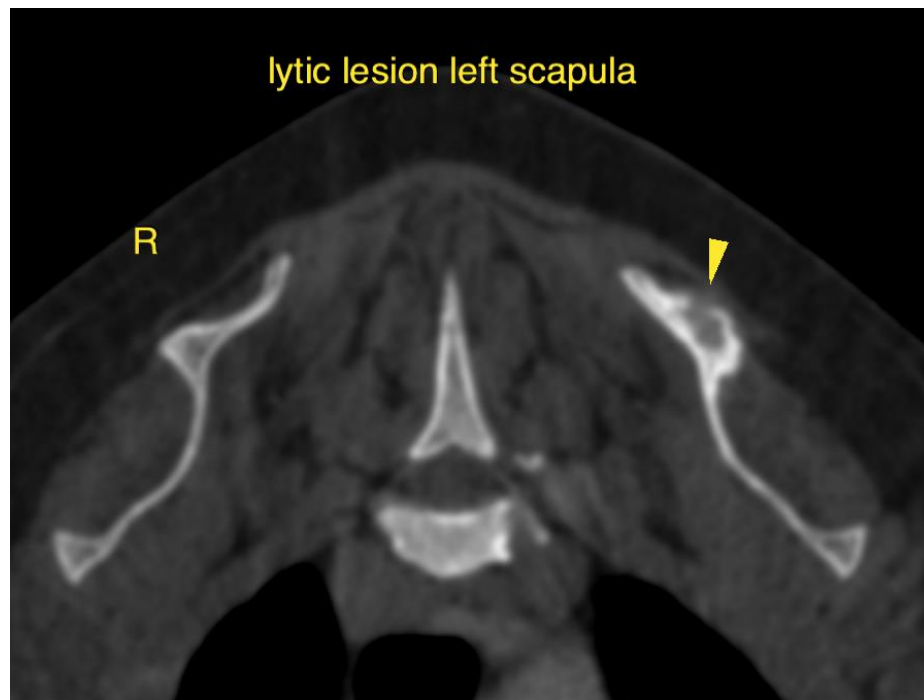
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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The osseous lesions are equivocal for degenerative changes of the bone with bone infarction and osseous cyst like lesions or aggressive polyostotic bone disease – neoplasia (e.g. round cell tumor, metastatic disease such as carcinomatosis) or osteomyelitis (e.g. mycotic, Leishmaniasis).

The contrast enhancing muscular lesions might increase the odds for neoplastic disease, but small foci of myositis are potentials as well. Recommend FNA sampling or bone biopsy of the iliac wings.

Potentials for the hepatomegaly include metabolic hepatic disease, hepatitis or diffuse neoplastic infiltration. The splenomegaly can be accentuated by general anesthesia with pooling of blood. Consider ultrasound guided FNA sampling and/or Tru-cut biopsy can be used as minimally invasive methods for further workup.





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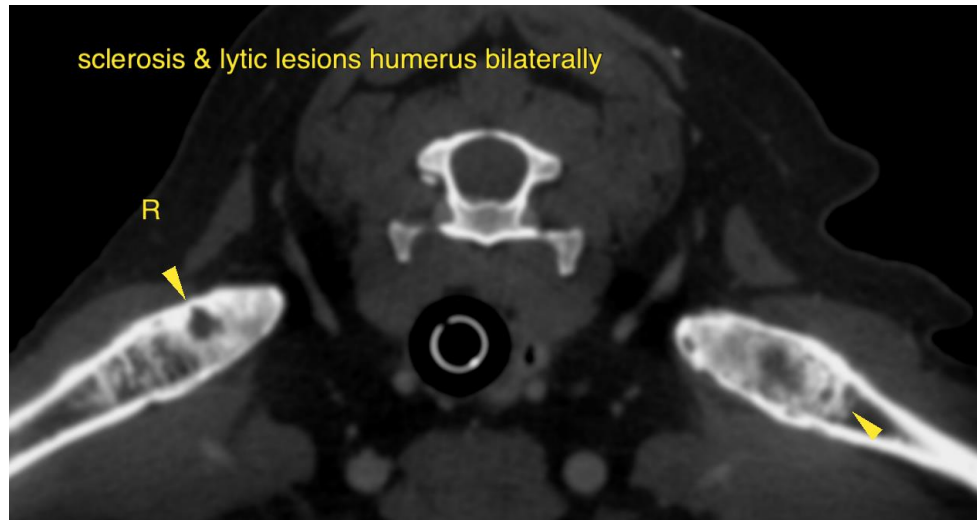
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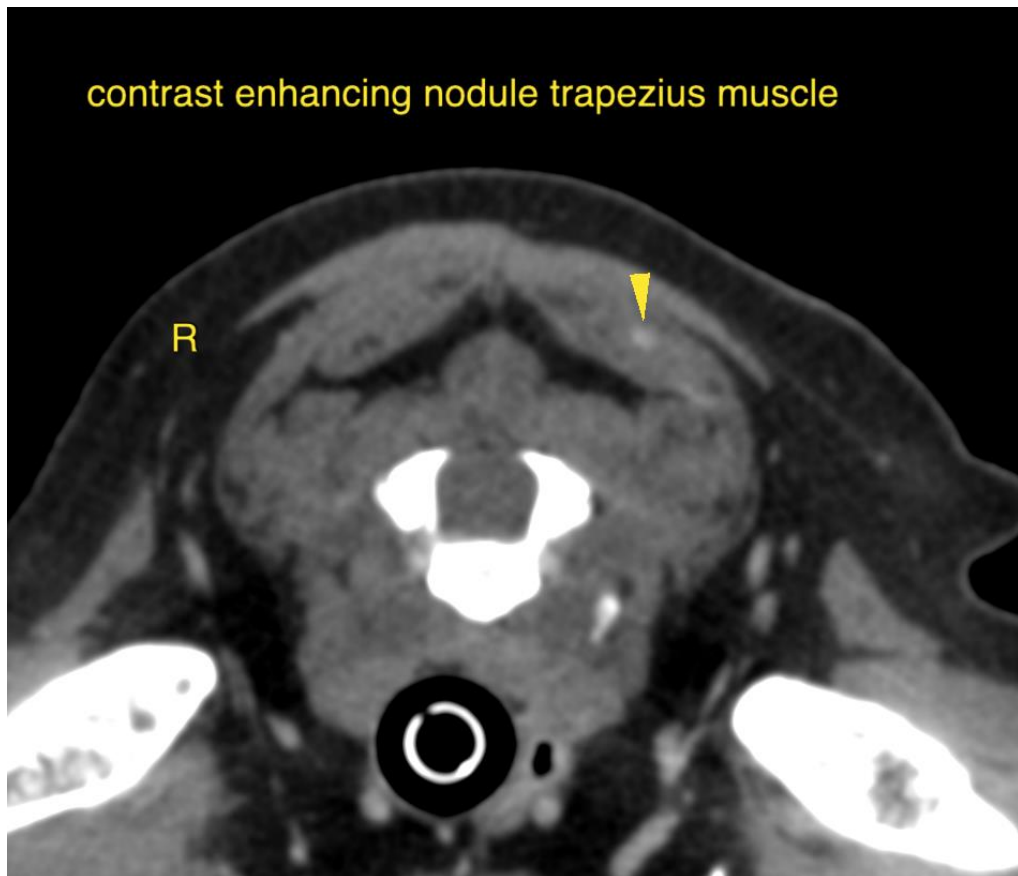
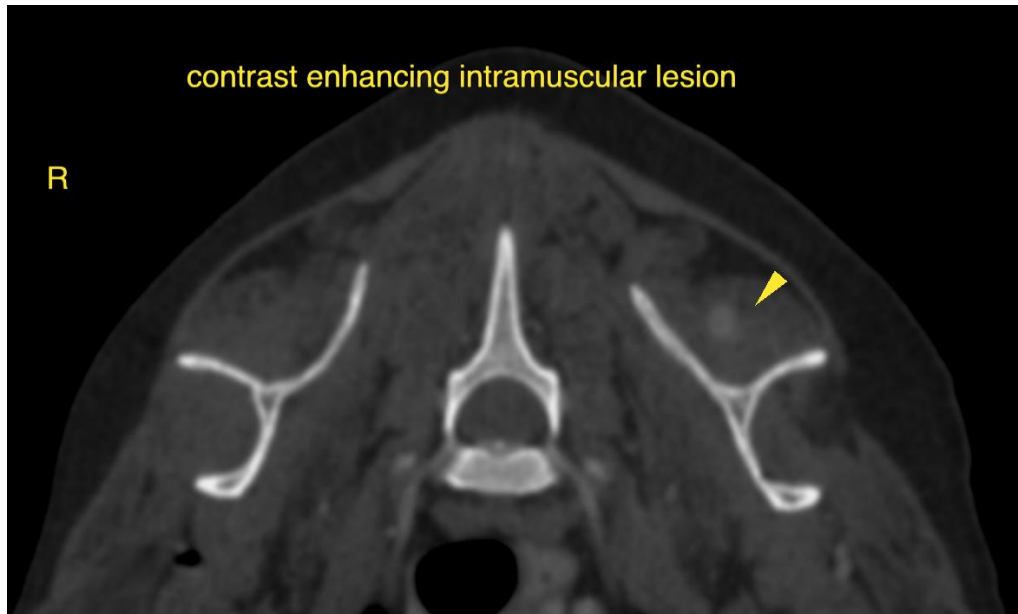
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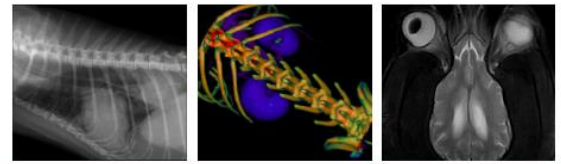
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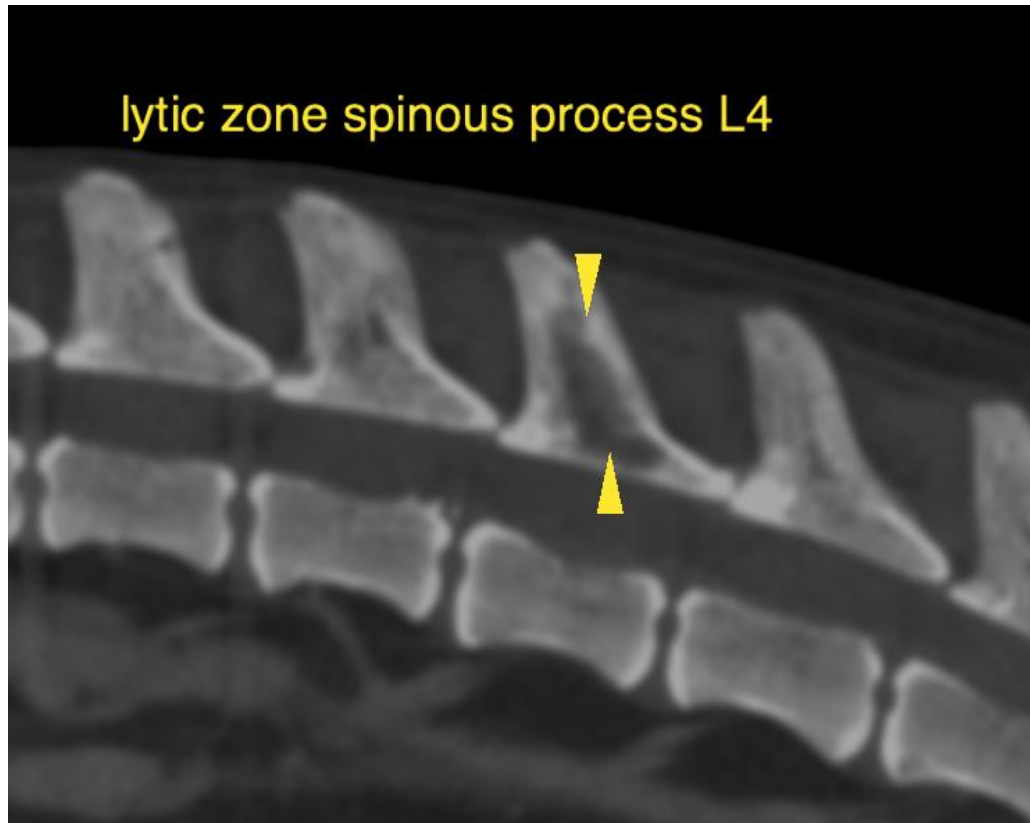
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
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