

**PATIENT PRESENTING CLINICAL SIGNS**

Jagger Alarcon Coughing. Managed with medications.  
 Abnormal PE/Chem/CBC/UA Results: Trachea sensitive, coughing on palpation - no retching.

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

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

**COMPUTED TOMOGRAPHIC FINDINGS**

**BREED Thorax & Neck**

Australian Shepherd At the cranial pole of the left thyroid gland, a well-defined, post contrast mild contrast enhancing nodule is visible, measuring 8 mm in diameter and protruding beyond the surface of the left thyroid gland.

**SEX**

Neutered Male The laryngeal structures present without abnormalities. The cervical segment of the trachea is mildly dorsoventrally flattened.

The osseous structures of the neck are within normal limits.

**AGE**

10 Years Both shoulder joints present mild osteophyte new bone formation and mild exostosis formation in the distal aspect of the bicipital groove.

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.

**INTERPRETED BY**

Sebastian Schaub, DVM  
 Dr. med. vet. DipECVDI

The cardiovascular structures including the pulmonary vasculature are within normal limits. At the caudoventral aspect of the heart, a well-defined ovoid shaped mineralization is appreciated, measuring 7 x 4 x 7 mm in size.

**HOSPITAL NAME**

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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.

The lung parenchyma presents the expected architecture and attenuation behavior.

**REFERRING VET**

Meaux

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

Abdomen

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.

**DATE**

12-20-22

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



**PATIENT** The hepatic volume is mildly increased. The hepatic margins are smooth, and the hepatic parenchyma is uniform soft tissue attenuating and contrast enhancing.

Jagger Alarcon The portal vein presents a normal order of its tributary veins and intrahepatic branching. No abnormal vessel is noted inside and outside of the liver parenchyma.

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

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

**BREED** Both coxofemoral joints present moderate osteophyte new bone formation. The acetabular groove bilaterally is shallow, and the center of the femoral heads is lateral to the dorsal acetabular rim.

Australian Shepherd

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- SEX**
  - Nodular lesion left thyroid gland
  - Hepatomegaly
- Neutered Male
  - Possible mild tracheal collapse
  - Degenerative osteoarthritis shoulder joints bilaterally
  - Degenerative osteoarthritis coxofemoral joints bilaterally
- AGE**
  - Nodular fat necrosis caudal aspect of the pericardium

10 Years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY** The left thyroid nodule can present (non)functional thyroid nodular hyperplasia, parathyroid adenoma or thyroid adenoma/(carcinoma). If not done so yet, recommend complete blood work including Calcium levels. Ultrasound guided FNA sampling of the left thyroid nodule might be considered as advanced diagnostic tool.

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**HOSPITAL NAME** Potentials for the hepatomegaly include metabolic hepatic disease, hepatitis or diffuse neoplastic infiltration. In case of doubt, ultrasound guided FNA sampling and/or Tru-cut biopsy can be used as minimally invasive methods for further workup.

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**REFERRING VET** No abnormality along the pictured parts of the airways can be appreciated, explaining the history of cough. However, a negative CT study does not rule out possible tracheitis or bronchitis entirely. The clinical relevance of the mild tracheal collapse is unclear. Bronchoscopy including BAL can be used as advanced diagnostic test.

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**PATIENT**

Jagger Alarcon

**SPECIES**

Canine

**BREED**

Australian Shepherd

**SEX**

Neutered Male

**AGE**

10 Years

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**HOSPITAL NAME**

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**REFERRING VET**

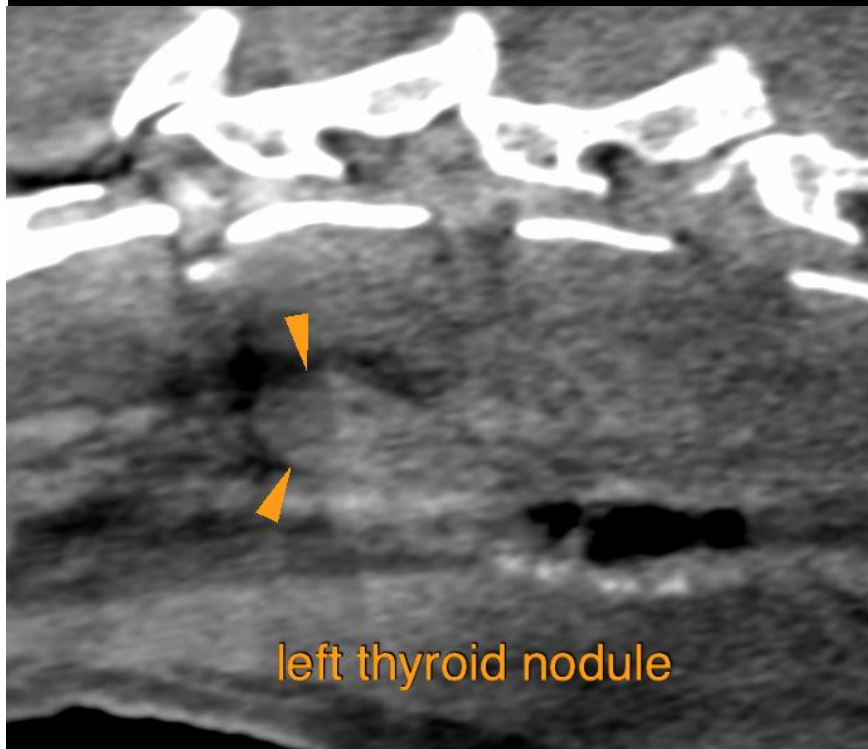
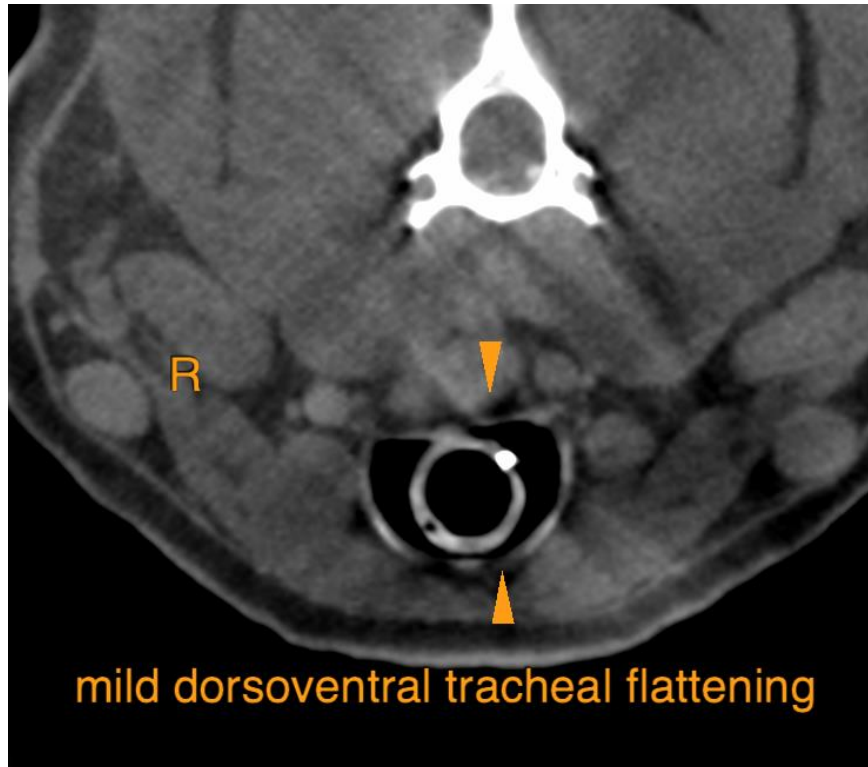
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**PATIENT**

Jagger Alarcon

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.

**SPECIES**

Canine

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.

**BREED**

Australian Shepherd

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**SEX**

Neutered Male

**AGE**

10 Years

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