

**PATIENT PRESENTING CLINICAL SIGNS**

Bailey Daparre History: difficulty breathing left kidney cyst

**COMPUTED TOMOGRAPHIC STUDY OF THE THORAX AND ABDOMEN****SPECIES**

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

**COMPUTED TOMOGRAPHIC FINDINGS****BREED**

American Bulldog

**Thorax**

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

**SEX**

Spayed Female

A small to moderate amount of free gas is visible in the pleural cavity. The volume of the lung lobes is decreased, most accentuated in the ventral aspect of the lung.

**AGE**

7 Years 6 Months

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.

**INTERPRETED BY**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

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****REFERRING VET**

Lorente

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

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.

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The renal lymph nodes are prominent, presenting intraparenchymal fluid attenuating lesions.

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

**DATE**

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

Bailey Daparre

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

**SPECIES**

Canine

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

The vertebral endplates of the lumbosacral junction present moderate spondylosis formation. The lumbosacral intervertebral disc is protruding into the vertebral canal, occupying approximately 60% of the cross-sectional area of the vertebral canal at the same level.

**BREED**

American Bulldog

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

**SEX**

Spayed Female

- Pneumothorax
- Multiple regions of dystelectasis of the lung
- Lymphadenopathy renal lymph nodes with possible cystic lesions
- Degenerative lumbosacral stenosis

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**AGE**

7 Years 6 Months

Unfortunately, the CT study presents no specific lung lesion explaining the pneumothorax, a ruptured bulla or bleb is most likely. Potentials can include preceding blunt thoracic trauma, migrating foreign body, lung worm infection, ruptured pulmonary abscess. If the spontaneous pneumothorax does not resolve under conservative therapy and repeated aspirations of the pneumothorax are required either an autologous blood patch or surgery may be used as therapy. Surgical intervention is indicated in cases of repeated air accumulation within a 5-day period. As the location of leakage from the airways cannot be clearly specified via CT study, a sternal approach to the pleural cavity may be beneficial.

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The cyst like lesions of the renal lymph nodes can present lymphangiectasia, lymphatic cysts, cystic lymphatic ectasia or sinus dilation and can present an incidental finding. The renal lymph nodes present no signs of malignant transformation, however in case of doubt, recommend FNA sampling.

**REFERRING VET**

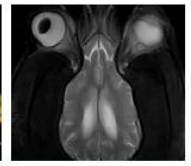
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**PATIENT**

Bailey Daparre

**SPECIES**

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**BREED**

American Bulldog

**SEX**

Spayed Female

**AGE**

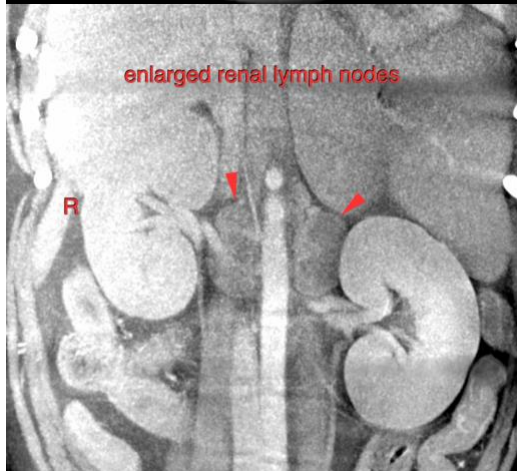
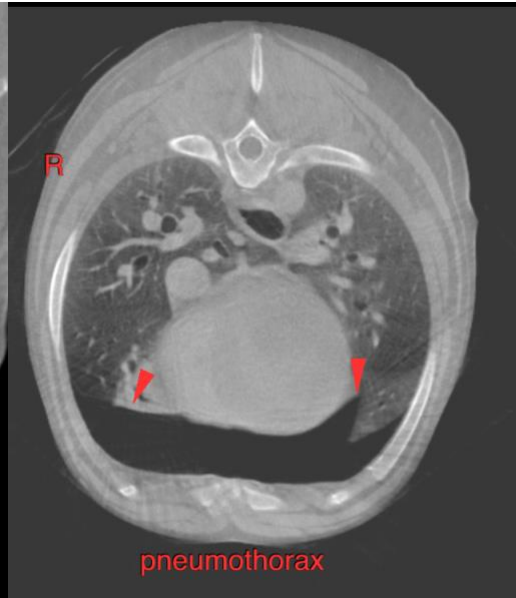
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
info@sonopath.com



**PATIENT**

Bailey Daparre

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Canine

**BREED**

American Bulldog

**SEX**

Spayed Female

**AGE**

7 Years 6 Months

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