



**PATIENT**

Layla Mariano

**PRESENTING CLINICAL SIGNS**

Acute onset of straining to urinate/inability to urinate. Urinary catheter patent during CT.

**SPECIES**

Canine

**COMPUTED TOMOGRAPHIC STUDY OF THE ABDOMEN & THORAX**

Plain and post contrast studies of the abdomen and plain study of the thorax available for review.

**BREED**

Lab Mix

**COMPUTED TOMOGRAPHIC FINDINGS**

**Abdomen**

A urethral catheter is in place. The tip of the catheter can be seen level with the urinary bladder neck.

**SEX**

Spayed Female

Circumferential thickening of the urethra is seen caudal to the urinary bladder neck over a distance of approximately 2.5 cm. Maximum thickness of the urethral wall is 1.0 cm. The contrast enhancement appears to be reduced compared with the remainder of the urethral wall.

**AGE**

9 Years

The urinary bladder is mildly distended. Mild generalized thickening of the urinary bladder wall is noted. There is no evidence of a luminal mass of the urinary bladder. A mild amount of gas is seen within the urinary bladder.

A mild amount of free peritoneal fluid is seen in the caudal abdomen circumferential to the urinary bladder.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

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 regional lymph nodes in the hypogastrium present within normal limits.

**HOSPITAL NAME**

Aloha Pet & Bird  
Hospital

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

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

**REFERRING VET**

McLaughlin

A 7mm sized calculus is seen in the cystic duct of the gallbladder. No evidence of gallbladder obstruction is seen.

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

**INVOICE**

58802

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

Mild degenerative lumbosacral disc protrusion is noted.

**DATE**

6-13-23

**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.

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

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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.

**BREED**

Lab Mix

The lung parenchyma presents the expected architecture and attenuation behavior. Presence of moderate regional atelectatic changes are seen.

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

**SEX**

Spayed Female

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Regional thickening of the proximal urethral wall.
- Suspect chronic cystitis.
- Mild regional peritoneal effusion in the caudal abdomen.
- Single nonobstructive gallbladder calculus.
- Mild degenerative lumbosacral stenosis.

**AGE**

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

The CT study reveals regional thickening of the urethral wall. Differential diagnosis includes urethritis as well as infiltrative disease such as with epithelial neoplasia or round cell neoplasia. Further definition by means of ultrasound guided traumatic catheterization or endoscopy could be considered if not performed already.

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The small amount of urinary bladder gas is likely iatrogenic due to prior catheterization.

The free peritoneal effusion may represent a transudate, modified transudate, exudate, or hemorrhage. It can also be iatrogenic due to prior cystocentesis. The amount of free peritoneal fluid is very mild and likely not suitable for ultrasound guided fluid aspiration.

**REFERRING VET**

McLaughlin

Mild signs of degenerative lumbosacral stenosis are seen.

Note the presence of a single gallbladder calculus. At this time, there is no evidence of obstructive pathology. A risk of biliary system obstruction, however, has to be considered.

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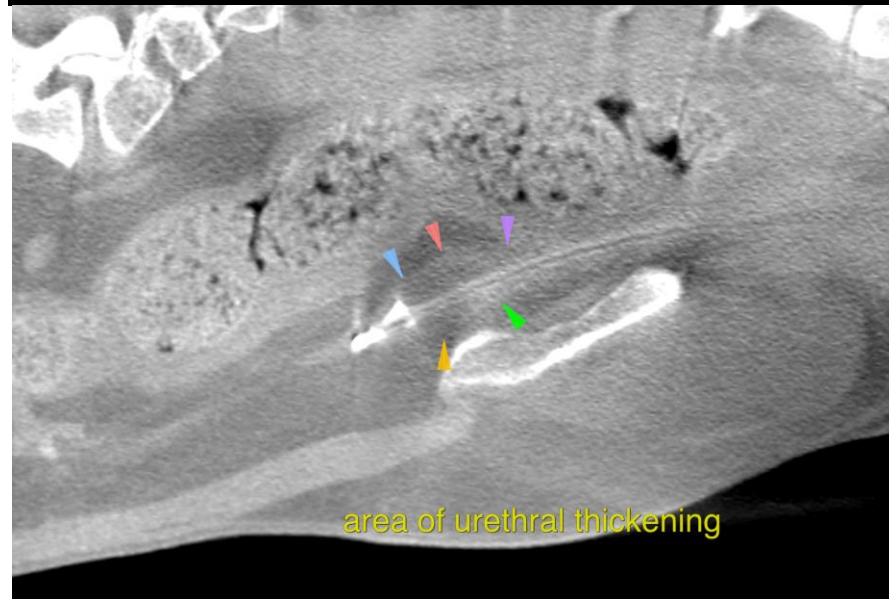
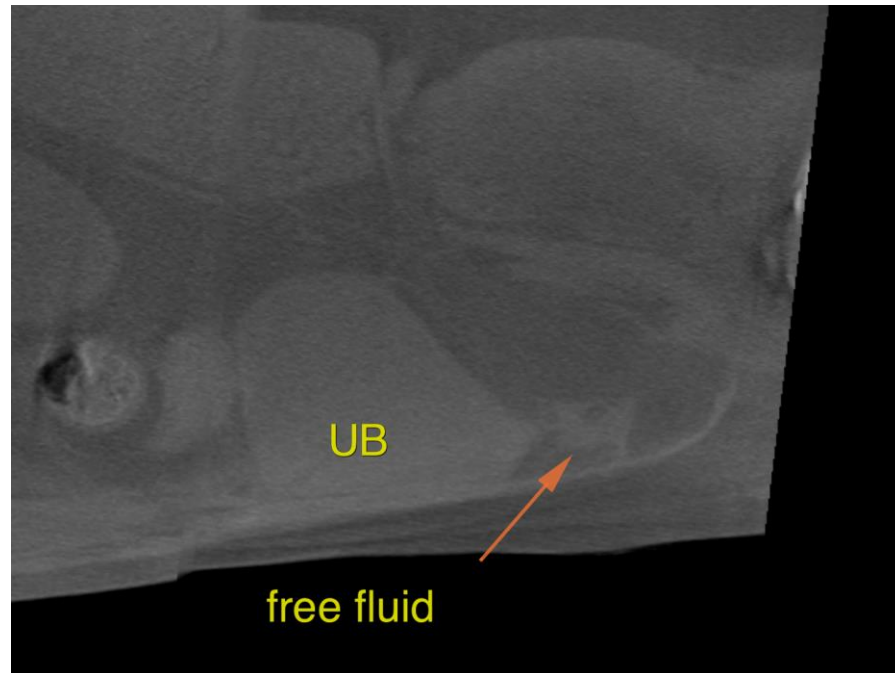
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

**SPECIES**

Canine

**Nele Eley**, DVM, Dr. med. vet., DipECVDI  
European Specialist in Veterinary Diagnostic Imaging, Cert. Radiology,  
Senior lecturer University of Giessen, Germany, Veterinary Faculty, Department of Radiology  
[info@sonopath.com](mailto:info@sonopath.com)

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