



**PATIENT PRESENTING CLINICAL SIGNS**

Layla McGuire History: P has been struggling to urinate. P saw another vet that suspected P had a trigone bladder mass. CT was performed today to confirm if there is metastatic disease.

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

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

**BREED COMPUTED TOMOGRAPHIC FINDINGS**

Pug **Thorax**

**SEX** The intervertebral disc spaces C3/C4 to C5/C6 are narrowed. The spinous process of T1 is incompletely fused in the midline.

Spayed Female The sternal, cranial mediastinal and tracheobronchial lymph nodes are small elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation pattern is uniform.

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

14 Years 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.

**INTERPRETED BY** The lung parenchyma presents the expected architecture and attenuation behavior with randomly distributed sporadic interspersed punctuate mineralization.

Sebastian Schaub, DVM Dr. med. vet. DipECVDI Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.

**HOSPITAL NAME Abdomen**

Catskill VS, PLLC The falciform fat presents mild fat-stranding. Caudal to the gallbladder, a well-defined, irregular ovoidal shaped lesions is appreciated within the peritoneal fat.

**REFERRING VET** 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. A urinary catheter is noted within the urinary bladder and the urinary bladder is empty. Mineral attenuating material is attached a generalized thickened urinary bladder wall. In the positive contrast cystography, the urinary bladder neck is obliterated by an intraluminal, circumferential mass presenting as irregular shaped filling defect – extending cranially just caudal to the level of the vesical trigone.

Dr. Daniela Carbone

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

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7/6/23



**PATIENT** Layla McGuire  
**SPECIES** Canine

The body of the spleen presents an intraparenchymal, heterogeneous contrast enhancing nodular lesion, measuring 3.3 cm in diameter, causing convex bulging of the splenic capsule at the same level. The hepatic volume is increased and the liver is protruding caudally beyond the costal arch, the hepatic margins are mildly irregular. The caudoventral hepatic margins are rounded. In the left medial liver lobe, two, well-defined, roundish parenchymal filling defects are appreciated – the largest measuring 17 mm.

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

**BREED** Pug  
 Level with the minor curvature of the stomach, a convex shaped, uniform soft tissue attenuating and contrast enhancing mass is bulging into the gastric lumen, measuring 1.9 x 1.9 x 1.2 cm. The position, delineation, wall and content of the intestinal tract are considered within normal limits throughout.

**SEX** Spayed Female  
 The intervertebral discs T12/T13, T13/L1, L6/L7 and L7/S1 are bulging into the vertebral canal, occupying approximately up to 30% of the cross-sectional area of the vertebral canal at the same level. Both coxofemoral joints present mild to 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.

**AGE** 14 Years  
**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Intraluminal soft tissue mass urinary bladder neck without signs of mechanical obstruction of the ureteral orifices
- Intramural gastric mass – level with the minor curvature
- Splenic intraparenchymal soft tissue nodule
- Hepatomegaly with irregular margins and simple hepatic cysts
- Suspect nodular fat-necrosis cranioventral abdomen
- Intervertebral disc protrusion LT12/T13, T13/L1, 6/L7 and L7/S1 with possible dynamic myelocompression
- Spina bifida occulta T1
- Discopathy C3/C4 to C5/C6
- Degenerative osteoarthritis coxofemoral joints due to hip dysplasia
- Pulmonary osteomas
- Spondylosis deformans
- No evidence of pulmonary metastatic disease

**INTERPRETED BY**

Sebastian Schaub,  
 DVM Dr. med. vet.  
 DipECVDI

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**REFERRING VET**

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The CT study is confirming the diagnosis of an intraluminal mural mass within the urinary bladder neck, the findings are consistent with neoplastic disease and transitional cell carcinoma is most likely. The tributary lymph nodes present without signs of metastatic disease.

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The appreciated gastric mass is most suggestive for leiomyoma, however malignant neoplastic transformation (e.g. carcinoma, leiomyosarcoma, round cell tumor) is still a consideration.

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**PATIENT** The splenic mass can present benign nodular splenic hyperplasia or neoplastic infiltration of the spleen, such as metastasis, round cell tumor, sarcoma.

Layla McGuire

Differentials for the supposed nodular fat-necrosis can be hematoma or less likely metastasis.

**SPECIES**

Canine

**BREED**

Pug

**SEX**

Spayed Female

**AGE**

14 Years

**INTERPRETED BY**

Sebastian Schaub,  
DVM Dr. med. vet.  
DipECVDI

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**REFERRING VET**

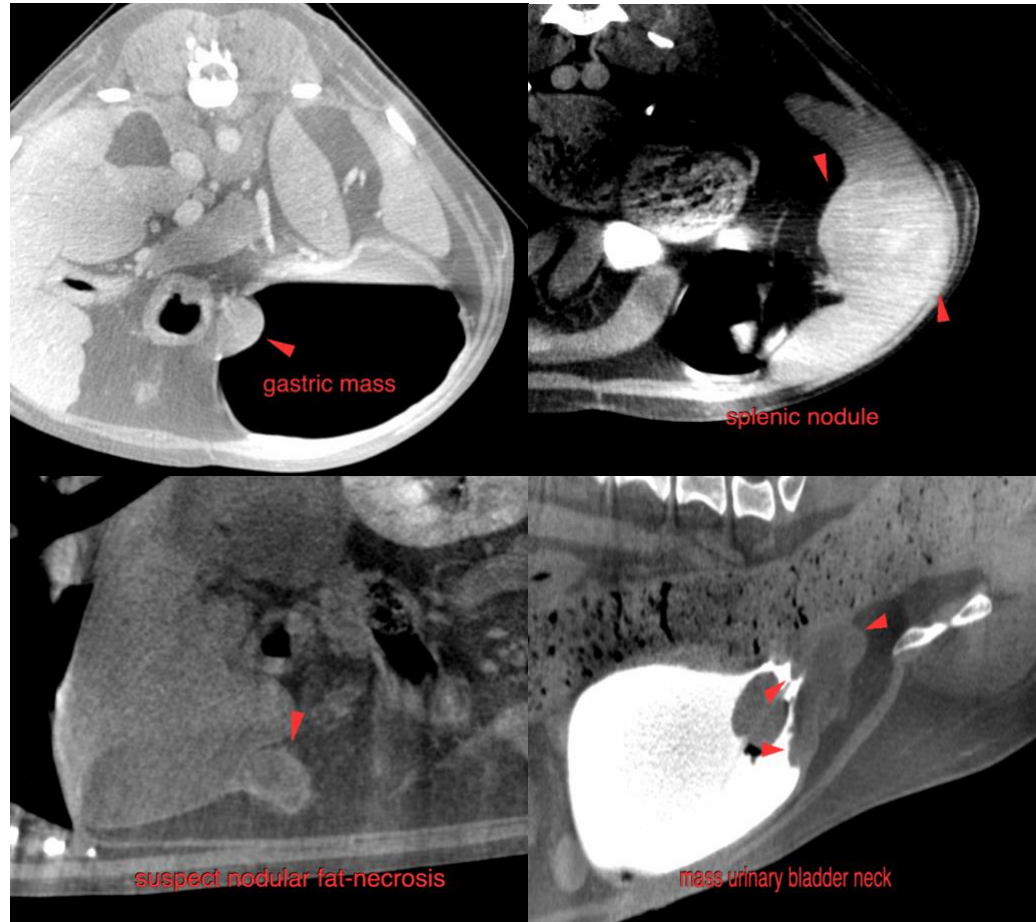
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**The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

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**

Layla McGuire

**SPECIES**

Canine

**BREED**

Pug

**SEX**

Spayed Female

**AGE**

14 Years

**INTERPRETED BY**

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