



**PATIENT PRESENTING CLINICAL SIGNS**

Diesel Khouban  
 Historical cystotomy for calcium oxalate stones last year. 3 week history of hematuria. Radiographs revealed recurrence of stones. Ultrasound revealed a suspect ~2cm mesenteric mass.

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

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

**BREED COMPUTED TOMOGRAPHIC FINDINGS**

Rottweiler  
Thorax  
 An isolated ossification center is seen at the caudal aspect of the glenoid fossa bilaterally. The periarticular bones of the left shoulder joint present mild osteophyte new bone formation.

**SEX**  
 Male Intact  
 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.

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

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**  
 Sebastian Schaub, DVM  
 Dr. med. vet. DipECVDI  
 The lung parenchyma presents the expected architecture and attenuation behavior with randomly distributed interspersed punctuate mineralization. Dystelectasis of the caudodorsal aspect of the lung field is seen.

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

Abdomen  
 Both kidneys present within normal limits for size, shape and organ architecture. A small amount of mineral attenuating material is associated with the left renal pelvis. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted. On the dorsal urinary bladder wall, multiple small (<1 mm), gravity dependent mineral attenuating calculi are seen. The prostate is symmetrically enlarged and has a heterogeneous contrast enhancement pattern. The fat surrounding the prostate presents mild fat-stranding.

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

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

**DATE**  
 At the medial aspect of the spleen, a roundish, well-defined structure is seen, measuring 16 mm in diameter, presenting the same attenuating and contrast enhancement pattern like the spleen.

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

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

In the caudoventral abdomen, adjacent to a small intestinal loop, a well-defined uniform soft tissue attenuating nodule is seen, measuring 2.2 cm in diameter ± peripheral mild contrast enhancement pattern.

**SPECIES**

Canine

The periarticular bones of both coxofemoral joints present moderate osteophyte new bone formation.

**BREED**

Rottweiler

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Prostatomegaly with intraprostatic cysts, mild surrounding peritoneal effusion
- Cystolithiasis without signs of obstruction
- Left sided mild nephrolithiasis
- Peritoneal soft tissue nodule caudoventral abdomen without overt contrast enhancement
- Suspect Splenunculus medial to the spleen
- Pulmonary osteomas
- Degenerative osteoarthritis coxofemoral joints bilaterally, due to hip dysplasia
- Mild degenerative osteoarthritis left shoulder joint
- Isolated ossification center glenoid fossa bilaterally

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The prostatomegaly is most suggestive for benign prostatic hyperplasia with intraprostatic cysts. The mild surrounding peritoneal effusion might be a sign for prostatitis – FNA sampling of the prostate would be beneficial for further workup and ruling out malignant transformation.

The peritoneal nodule adjacent to a small intestinal loop is suggestive for nodular fat necrosis, granuloma or mesenteric cyst. FNA sampling can be performed to rule out malignancy entirely.

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**REFERRING VET**

Bleakley

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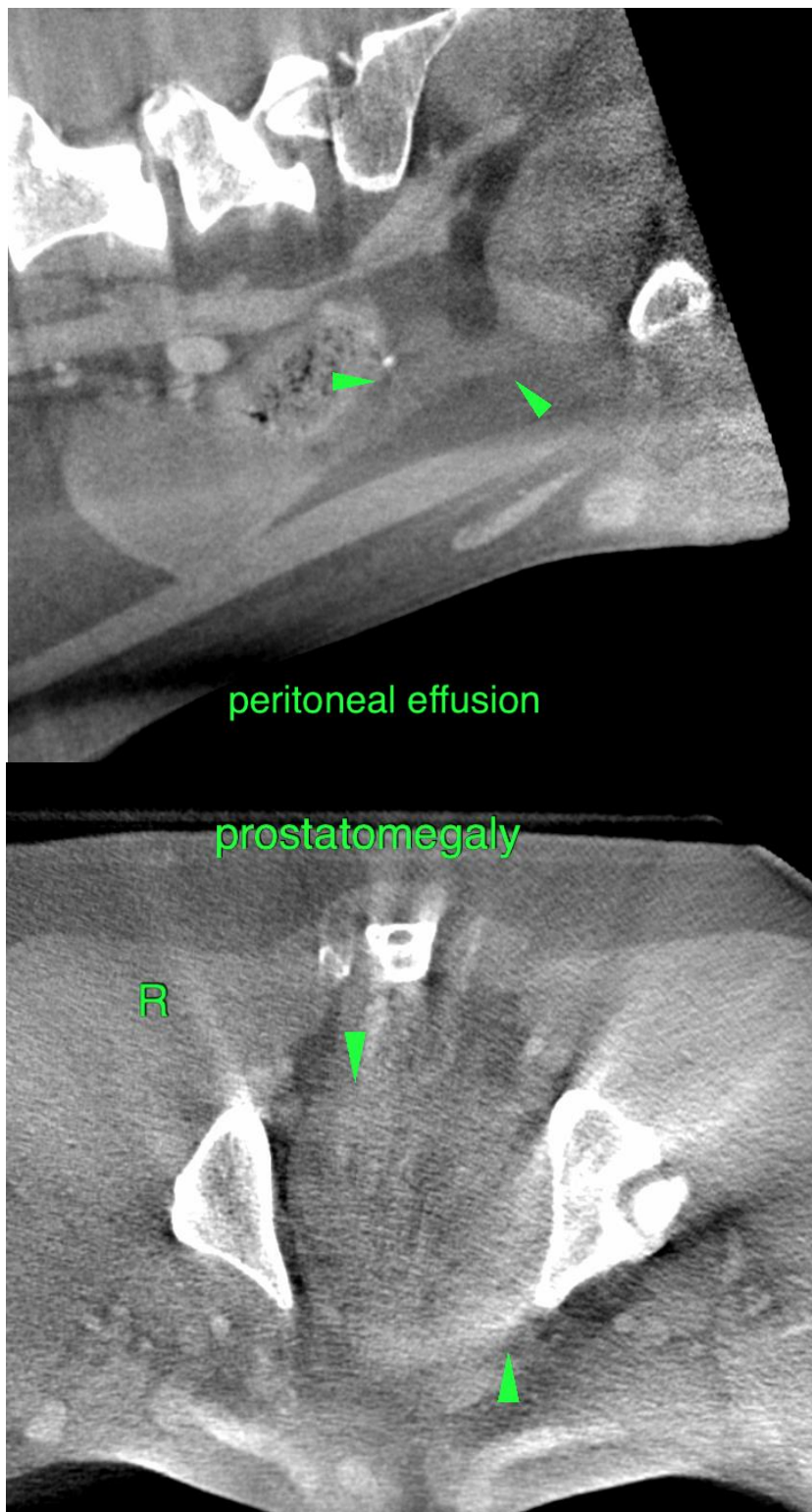
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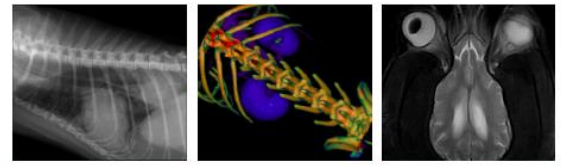
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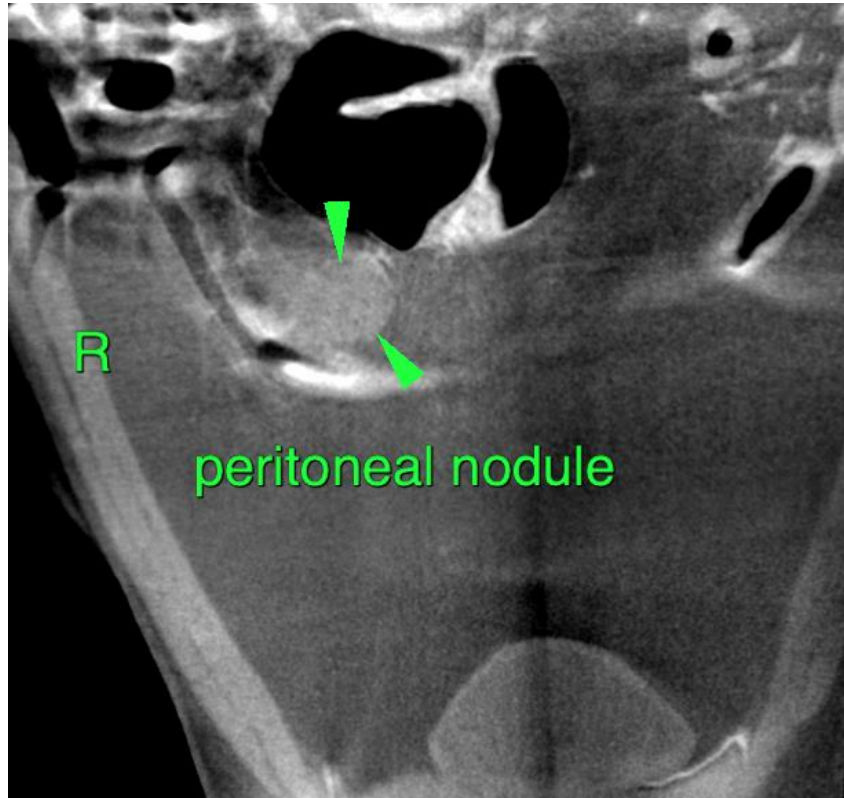
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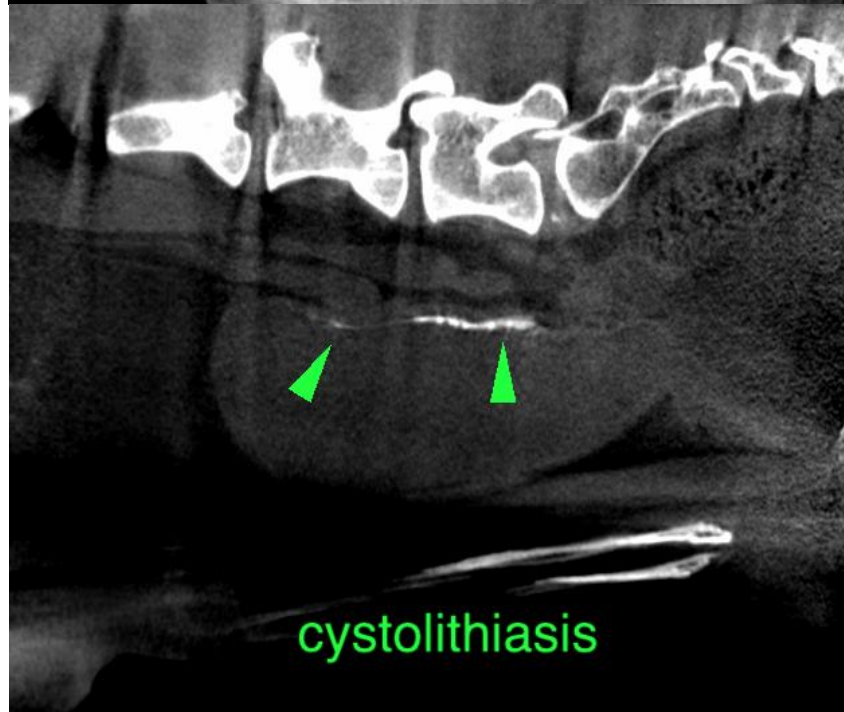
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peritoneal nodule



cystolithiasis



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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.

**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**

Rottweiler

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