



PATIENT PRESENTING CLINICAL SIGNS

Hazel #12851VL-CT
Nixon Valley View
Veterinary Clinic

Noted at time of spay 11/2022 increased abdominal fluid -noted as "water melon juice" in character - not sampled at that time. No reports of anesthesia challenges Owner noted in the last 3 weeks more distended abdomen. RDVM determined fluid material, abdomnocentesis with fluid analysis (included here) consistent with chyloabdomen. Abdominal U/S vs CT discussed with owners - elects CT and referred to us for imaging. Owners report normal stools but poor overall muscular development.

SPECIES

Canine

Current topical therapy for otitis and cytopoint every 45 days for allergy management
Abnormal PE/Chem/CBC/UA Results: Stable blood proteins but low liver values - no liver function testing completed prior to imaging today. Remainder of chemistry/cell count (included here) are without changes

BREED

Golden Retriever

COMPUTED TOMOGRAPHIC STUDY OF THE ABDOMEN

A pre- and post-contrast CT study of the abdomen are provided for review totaling two series. One pre-contrast series of the abdomen, soft tissue algorithm. One post-contrast series of the abdomen, soft tissue algorithm.

SEX

FS

COMPUTED TOMOGRAPHIC FINDINGS

There is a moderate amount of diffuse peritoneal effusion. The attenuation of the peritoneal effusion is homogeneous, and measures between 5-10 HU. The mesenteric fat has a fat stranding appearance.

AGE

1 Year, 8 Months

There are multiple, variably sized, mild to moderately enlarged abdominal lymph nodes. The enlarged lymph nodes include the mesenteric, hepatic, para-aortic, and internal iliac lymph nodes. They are mildly rounded in shape; however, with normal attenuation and enhancement.

INTERPRETED BY

Tilde Rodrigues Froes,
DMV, MSc., Dr. Med
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The liver is homogeneously soft tissue attenuating and uniformly contrast enhancing with normal size and shape. The gallbladder is unremarkable.

The spleen is moderate to severely enlarged, with rounded shape, homogeneously attenuating, and enhancing.

The pancreas and adrenal glands are normal.

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The stomach is mildly filled and normally positioned, containing a small amount of gas admixed with homogeneous soft tissue attenuating material - fluid.

The small intestines are mildly dilated and contain a small amount of fluid attenuating material and gas.

REFERRING VET

Pete Bashara, DVM

The descending colon contains gas admixed with heterogeneously soft tissue attenuating fecal material.

The renal silhouettes are normal in size, shape, contour, and attenuation on post-contrast. Normal pelvis. The renal length is 6.6cm in the right kidney. The renal length is 6.8cm in the left kidney.

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The ureters are normal in size with correct insertion in the trigone region.

The urinary bladder is almost empty, with hypoattenuating content mixed with normal ventral dependent hyperattenuating contrast media, in the last series.

DATE

7-6-23



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Uterus and ovaries, not applicable.

On the collimated thorax, there is a moderate to severe amount of bilateral pleural effusion, resulting in dorsal retraction of the lung lobes. There is minimal pleural enhancement. No evidence of pleural thickening, mass effect, or irregularities. The attenuation of the pleural effusion is homogeneous, and measures between 13 a 14 HU.

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The caudal lung lobes are reduced in volume expansion due to pleural effusion. The visible portion of the caudal lung lobes have peripheral ground glass attenuation, mainly in the right caudal lung lobe, and rounded contour.

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The musculoskeletal structures collimated are normal.

COMPUTED TOMOGRAPHIC DIAGNOSIS

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- Bicavitary effusion, peritoneal and pleural. The free-fluid attenuation Hounsfield unit score correlates to the described tomographic aspect of chyloabdomen and is similar as previously described in the pathology report.
- Splenomegaly, differential diagnosis includes neoplasm, for example lymphoma. Other differential diagnosis includes lymphoid hyperplasia, extra medullary hematopoiesis, or metastatic disease.
- Multifocal abdominal enlarged lymph nodes, lymphadenitis, reactive.
- The rounded borders of the caudal pulmonary parenchyma indicate chronicity.
- The ground glass pulmonary appearance is likely correlated to pulmonary passive atelectasis.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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The tomographic findings confirm the peritoneal effusion. In addition, a moderate amount of pleural effusion is identified. Therapeutic thoracocentesis should be considered. As reported in the pathologic analysis description, many causes can be considered as differential diagnoses of chyloabdomen, and neoplasia has been reported as a common cause, most commonly lymphoma.

Considering the splenomegaly and lymphadenopathy, an echo-guided abdominal ultrasound fine-needle aspiration of the spleen is suggested for the next approach to diagnosis. Also, pondering performing a thoracic x-ray or thoracic computed tomography after thoracocentesis, for identification of other abnormalities.

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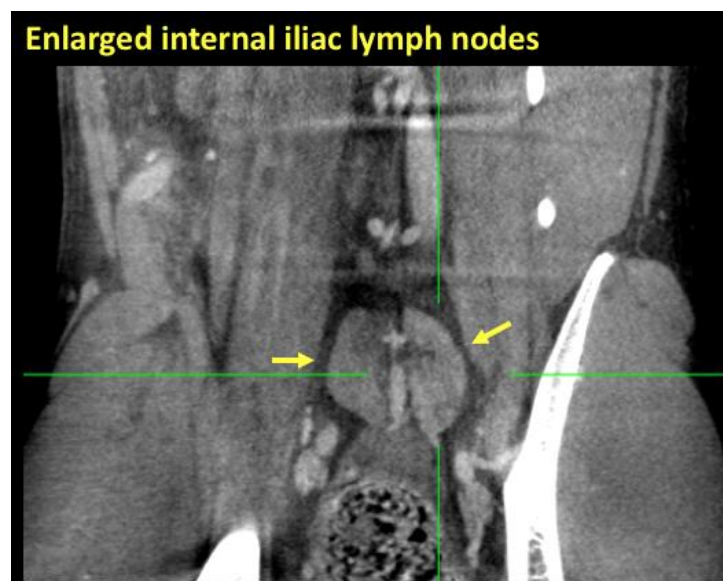
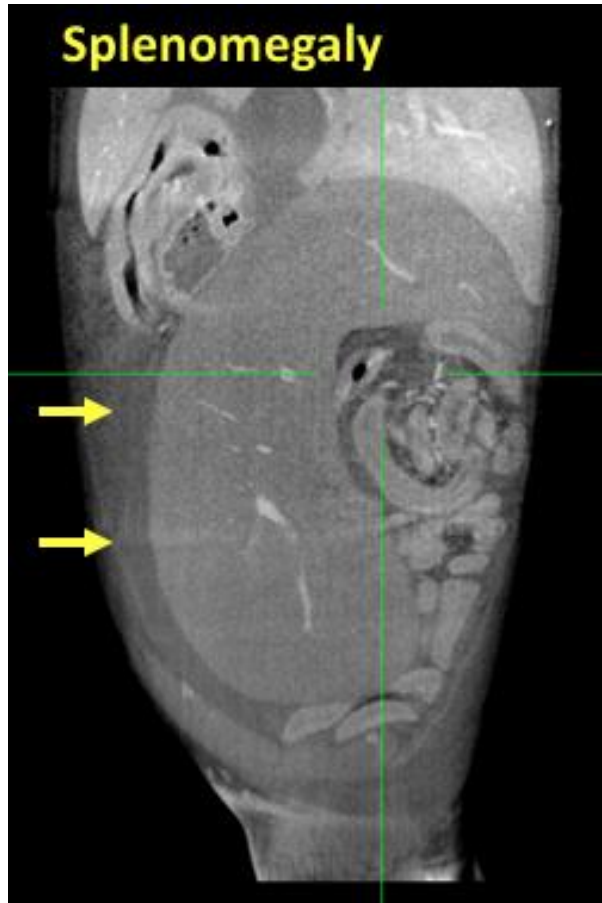
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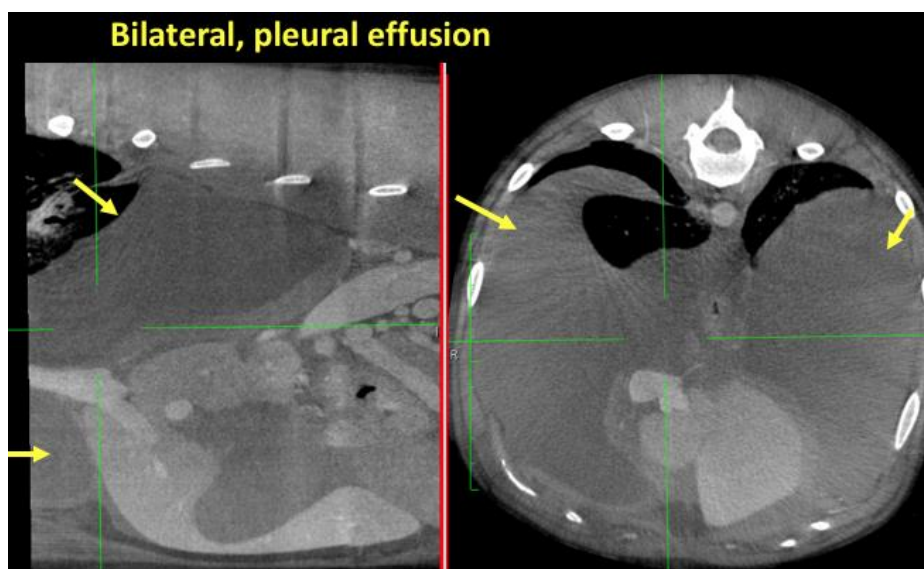
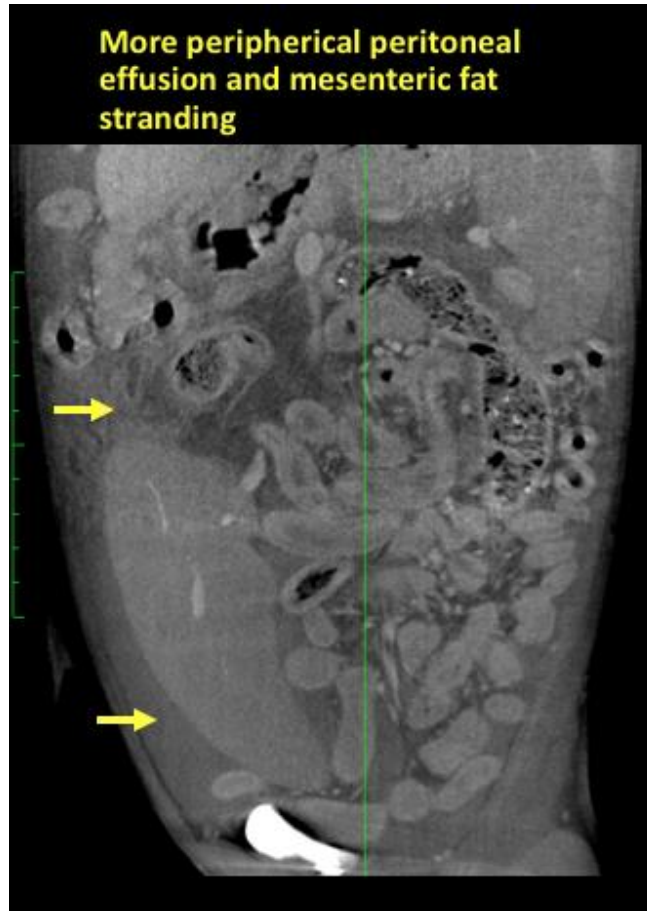
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

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