



PATIENT

Murphy Johnston

PRESENTING CLINICAL SIGNS

Renal failure.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Cockapoo

The **prostate** was slightly heterogenous with minor, variable polypoid thickening in the urethra. However, the cranial **bladder** and ureteral papillae were unremarkable.

SEX

Neutered male

The left **kidney** in this patient presented echogenic cystic mass or abscess with peripheral tissue thickening that measured up to 2.0 cm. Pyelectasia was noted in the left kidney measuring 2.0 cm as well with areas of mineralization. Blood flow was slightly subnormal to the left kidney. The left kidney was enlarged at 5.87 cm. The right kidney measured 5.66 cm with minor pyelectasia that measured 1.3 x 0.5 cm.

AGE

16 years

Adrenal Glands

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 2.0 x 0.46 cm.

IMAGING PERFORMED BY

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Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

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Liver

REFERRING VET

Dr. Zilberman

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Multi-focal, hypoechoic nodular changes were noted and were non-disruptive and consistent with nodular hyperplasia. The hepatic veins were dilated as was the vena cava owing to twice maintenance fluid therapy. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

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Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine



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demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

SPECIES

Canine

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

BREED

Cockapoo

SEX

Neutered male

Nodular hyperplasia liver pattern with left renal abscess or possible neoplastic process such as hemangiosarcoma or carcinoma, appears resectable.

AGE

16 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend stabilizing the azotemia in this patient along with left nephrectomy. Blood pressure measurement and urine culture is warranted. Ultrasound-guided drainage of the cyst structure +/- FNA of the tissue portion can be considered for further definition as long as hypertension has been controlled and if the patient stabilizes with azotemia. Chest radiographs are warranted to assess for potential metastatic disease.

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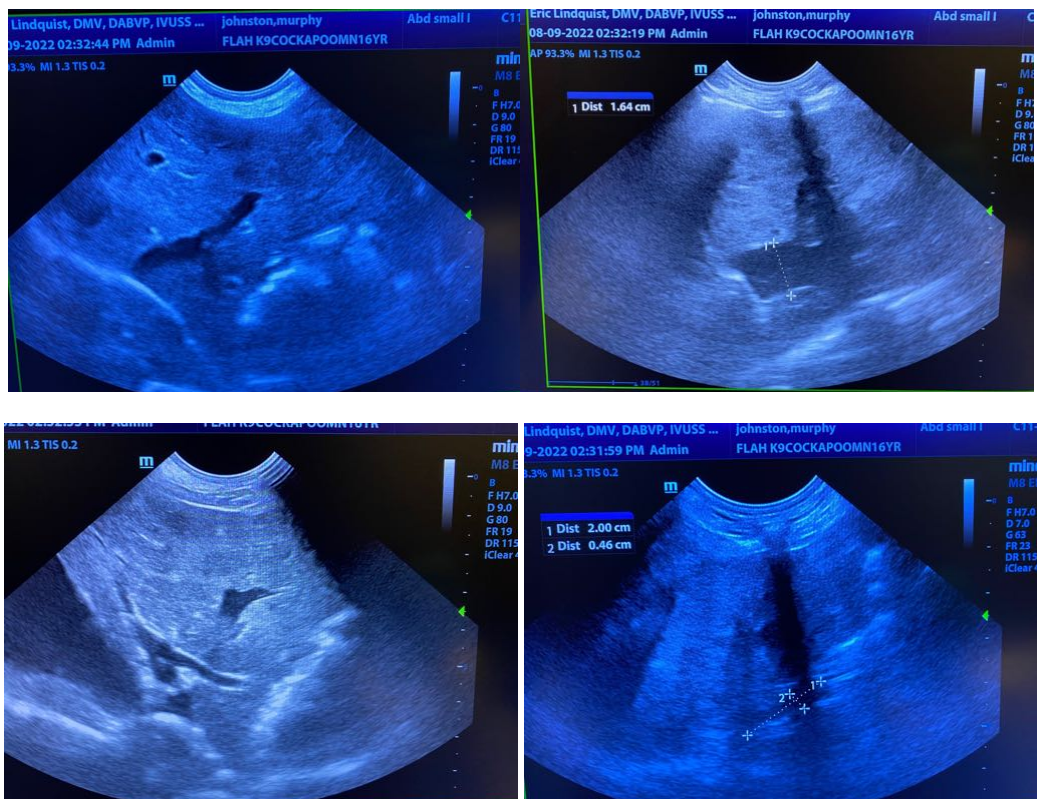
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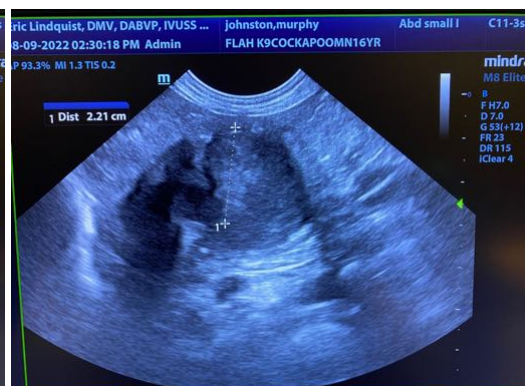
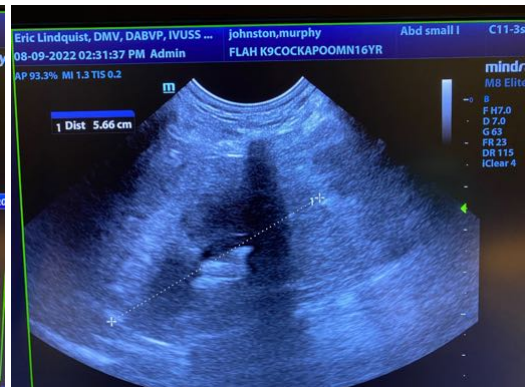
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Cockapoo

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SEX

Neutered male

AGE

16 years

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