



PATIENT PRESENTING CLINICAL SIGNS

Oscar Dougherty 8 y/o MN Cocker Spaniel presenting for coughing, increased respiratory rate at home and exercise intolerance.

SPECIES - IV/VI left apical systolic heart murmur
- Hacking cough on tracheal palpation

Canine - 3-4 cm attached, soft, subcutaneous mass on the trunk just cranial to the hip

BREED

Cocker spaniel

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Male, neutered

The urinary bladder wall is normal in thickness and the mucosal surface is smooth. The bladder is moderately distended. A small amount of suspended echogenic debris is observed within the lumen. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 2 cm, are normal.

AGE

8/23/2015

The prostate is normal in size (0.76 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

WEIGHT

12.2 kg.

The left kidney is normal size (5.14 cm in length); normal shape and architecture with smooth peripheral margins. The cortex is isoechoic relative to the spleen. There is a normal 1:3 cortex to medulla ratio with moderate loss corticomedullary distinction. Hyperechoic shadowing diverticular foci are visualized. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small
Animal Internal Medicine*)

The right kidney is normal size (5.80 cm in length); normal shape and architecture with smooth peripheral margins. The cortex is isoechoic relative to the spleen. There is a normal 1:3 cortex to medulla ratio with moderate loss corticomedullary distinction. Hyperechoic shadowing diverticular foci are visualized. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small
Animal Internal Medicine*)

Adrenal Glands

The left adrenal gland is normal size (0.62 cm at cranial pole) (0.49 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

HOSPITAL NAME

Blue Pearl Mt. Pleasant

The right adrenal gland is enlarged (3.45 x 2.92 cm) and irregular with a mass effect. The parenchyma is heterogeneous with small mineralized foci. There is no obvious evidence of vascular invasion.

REFERRING VET

Dr. Holmes and Dr.
Graham

Spleen

The spleen is normal in size (1.09 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

INVOICE

15222

Liver

DATE

8/23/23

The liver is subjectively enlarged with swollen peripheral contours. The parenchyma is isoechoic relative to the spleen. A 1.24 cm hypoechoic nodule is observed left to mid-liver. The remaining parenchyma is relatively homogeneous. Vascular and biliary tracts are of normal volume with no evidence of congestion. The portal vein to caudal vena cava ratio is approximately 1:1. The gall bladder



PATIENT	lumen is moderately distended. The wall is thin and smooth. A moderate amount of aggregated echogenic partially dependent debris/sludge is observed within the lumen. The cystic and common bile ducts are normal/not seen.
Oscar Dougherty	
SPECIES	<i>Gastrointestinal</i>
Canine	The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is mildly distended with ingesta. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The ileocecolic junction and colonic wall are normal. No obstructive disease is noted.
BREED	
Cocker spaniel	
SEX	<i>Pancreas</i>
Male, neutered	The base and limbs of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely isoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated. There is no evidence of peripancreatic inflammation or effusion.
AGE	
8/23/2015	
WEIGHT	<i>Free Abdomen</i>
12.2 kg.	The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.
INTERPRETED BY	<i>Other</i>
Andrea Nicastro, DVM, Diplomate ACVIM (<i>Small Animal Internal Medicine</i>)	A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass. Several ring down lesions are observed within the thorax.
IMAGING PERFORMED BY	ULTRASONOGRAPHIC FINDINGS
Andrea Nicastro, DVM, Diplomate ACVIM (<i>Small Animal Internal Medicine</i>)	Primary Findings: <ul style="list-style-type: none"> • Right adrenal mass. Neoplasia (i.e., adenocarcinoma, pheochromocytoma) is suspected with a lower possibility of a non-neoplastic process. • The ring down lesions in the thorax are consistent with the pulmonary nodules seen on thoracic radiographs.
HOSPITAL NAME	Secondary Findings: <ul style="list-style-type: none"> • Bilateral chronic renal changes with dystrophic mineralization. • The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, regenerative nodular hyperplasia, and/or age-related remodeling. Inflammatory and infiltrative disease are considered less likely. Correlation with the patient's liver values is recommended. • The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.
Blue Pearl Mt. Pleasant	
REFERRING VET	
Dr. Holmes and Dr. Graham	
INVOICE	
15222	
DATE	
8/23/23	



PATIENT

Oscar Dougherty

SPECIES

Canine

BREED

Cocker spaniel

SEX

Male, neutered

AGE

8/23/2015

WEIGHT

12.2 kg.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small Animal Internal Medicine*)

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small Animal Internal Medicine*)

HOSPITAL NAME

Blue Pearl Mt. Pleasant

REFERRING VET

Dr. Holmes and Dr. Graham

INVOICE

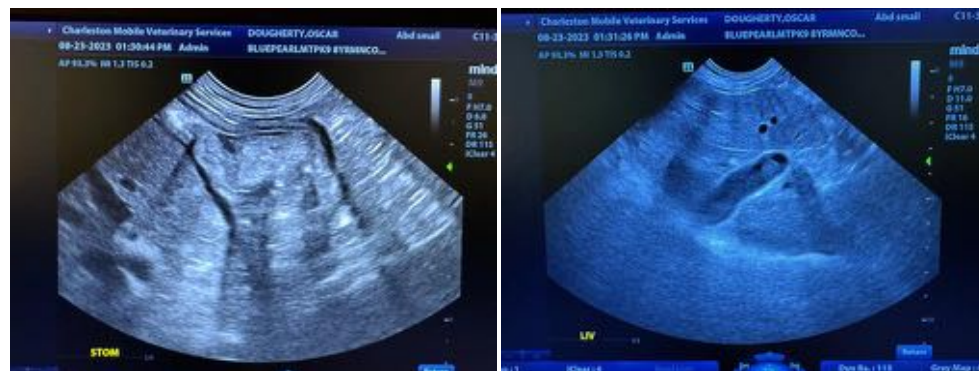
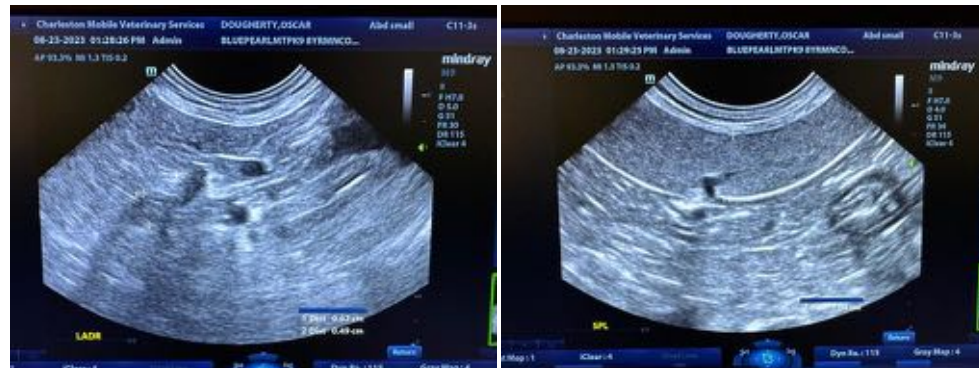
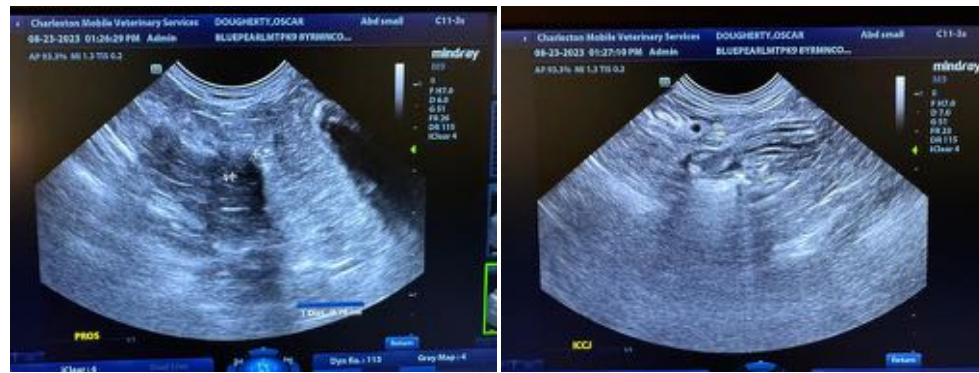
15222

DATE

8/23/23

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given the likelihood of right adrenal neoplasia with metastasis to the lungs, consultation with a board certified oncologist is warranted.





PATIENT

Oscar Dougherty

SPECIES

Canine

BREED

Cocker spaniel

SEX

Male, neutered

AGE

8/23/2015

WEIGHT

12.2 kg.



INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small Animal Internal Medicine*)

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small Animal Internal Medicine*)



HOSPITAL NAME

Blue Pearl Mt. Pleasant

REFERRING VET

Dr. Holmes and Dr. Graham

INVOICE

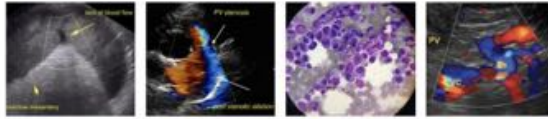
15222

DATE

8/23/23



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



PATIENT in the image/video clips provided.

Oscar Dougherty 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 Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)
info@SonoPath.com

BREED

Cocker spaniel

SEX

Male, neutered

AGE

8/23/2015

WEIGHT

12.2 kg.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small
Animal Internal Medicine*)

**IMAGING PERFORMED
BY**

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small
Animal Internal Medicine*)

HOSPITAL NAME

Blue Pearl Mt. Pleasant

REFERRING VET

Dr. Holmes and Dr.
Graham

INVOICE

15222

DATE

8/23/23