



PATIENT PRESENTING CLINICAL SIGNS

Ella McArthur History: Acute vomiting, diarrhea, hematochezia. Small kidney. No PuPd.

SPECIES Physical Examination: Lethargic, dehydrated, grade I/VI systolic murmur.

Canine Urinalysis: N/A.

CBC: Isosthenuria.

BREED Serum Biochemistry: Severe azotemia, hyperphosphatemia.

Cavalier King Charles Spaniel Radiographic Findings: N/A.

SEX

FS

AGE

2½ years

WEIGHT

3.6 kg

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med), PhD,
Dipl. ECVIM

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

Full urinary bladder with a normal thickness and appearance of the wall. Small amount of floating hyperechogenic sediment. No uroliths evident.

Normal trigone area, proximal urethra, and iliac blood vessels.

Normal iliac lymph nodes. Visible left ureter, right ureter not visualized.

Small irregular hyperechogenic kidneys (left 1.8 cm, right 3.4 cm) with complete loss of cortico-medullary differentiation, some blood flow, and normal pelvis.

Adrenal Glands

Normal shape, size, echogenic appearance, and position. Left 1.58 x 0.36/0.35 cm, right 1.87 x 0.38/0.44 cm

Spleen

Normal size (0.85 cm) and echogenic appearance. Smooth homogenous parenchyma, smooth curvi-linear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

Liver

Normal size, echogenic appearance, and portal markings. No nodules or masses evident. Full gall bladder containing moderate amount of hyperechoic sediment. Thickened (0.33 cm) and hyperechogenic appearance of the gall bladder wall with a halo sign. Normal bile duct (0.1 cm).

Gastrointestinal

Normal appearance of the pylorus, stomach, duodenum, small intestine, ileo-cecal junction, and colon with normal thickness (duodenum 0.32 cm, colon 0.14 cm), layering and peristaltic activity.

Pancreas

Normal size (left 0.15 cm, right 0.7 cm) and echogenic appearance. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

IMAGING PERFORMED BY

Dr Alastair Westcott,
DVM

HOSPITAL NAME

REFERRING VET

Dr Alastair Westcott,
DVM

INVOICE

302566

DATE

9/21/21



PATIENT *Free Abdomen*

Ella McArthur No mesenteric lymphadenomegaly.
No ascites.

SPECIES

Canine

BREED

Cavalier King Charles
Spaniel

SEX

FS

AGE

2½ years

WEIGHT

3.6 kg

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med), PhD,
Dipl. ECVIM

IMAGING PERFORMED BY

Dr Alastair Westcott,
DVM

HOSPITAL NAME

REFERRING VET

Dr Alastair Westcott,
DVM

INVOICE

302566

DATE

9/21/21

ULTRASONOGRAPHIC FINDINGS

Primary Findings:

- Renal disease.
- Cholecystitis?

Secondary Findings:

- Urinary bladder sediment.
- Gall bladder sediment.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The most likely etiology for the renal disease would be congenital renal dysplasia, with prior renal injury (acute kidney insult, bacterial nephritis, obstructive uropathy), a far less likely differential diagnosis.

Although the thickened gall bladder wall may be an incidental finding, emerging cholecystitis needs to be considered. With the halo sign, congestion and anaphylaxis would be differential diagnoses.

While the renal disease may account for the presenting clinical signs (uremic gastro-enteropathy), unrelated non-specific gastro-enteritis (viral, bacterial, protozoal, helminths, dietary indiscretion, toxins) ought be considered.

Further assessment that could be considered would be urine culture and blood pressure.

Initial therapy would be fluid therapy, anti-emetics (maropitant, metoclopramide), gastric protectants (omeprazole, sucralfate); with longer term management being renal diet, ACE inhibitor/receptor blockers, and enteric phosphate binders.



PATIENT IMAGES

Ella McArthur **Left kidney**

SPECIES

Canine

BREED

Cavalier King Charles
Spaniel

SEX

FS

AGE

2½ years

WEIGHT

3.6 kg

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med), PhD,
Dipl. ECVIM

IMAGING PERFORMED BY

Dr Alastair Westcott,
DVM

HOSPITAL NAME

REFERRING VET

Dr Alastair Westcott,
DVM

INVOICE

302566

DATE

9/21/21



Right kidney





PATIENT

Gall bladder

Ella McArthur

SPECIES

Canine

BREED

Cavalier King Charles
Spaniel

SEX

FS

AGE

2½ years

WEIGHT

3.6 kg



INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med), PhD,
Dipl. ECVIM

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.

IMAGING PERFORMED BY

Dr Alastair Westcott,
DVM

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.

Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM (Internal Medicine)
rlobetti@mweb.co.za

HOSPITAL NAME

REFERRING VET

Dr Alastair Westcott,
DVM

INVOICE

302566

DATE

9/21/21