



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Linus Huntington History: Diarrhea, vomiting, and inappetence.

**SPECIES** Physical Examination: N/A.

Canine Urinalysis: N/A.

CBC: N/A.

**BREED** Serum Biochemistry: Azotemia, mildly elevated ALP.

Dalmation Radiographic Findings: N/A.

**SEX**

MN

**AGE**

11 years

**WEIGHT**

54.5 #

**INTERPRETED BY**

Remo Lobetti, BVSc,  
MMedVet (Med), PhD,  
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**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Full urinary bladder with a normal appearance and thickness 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. Ureters not visualized.

Normal renal size with increased echogenic appearance, loss of cortico-medullary differentiation, irregular capsule and normal pelvis.

**Adrenal Glands**

Normal shape, echogenic appearance, size, and position.

**Spleen**

Normal size 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 with a diffuse mottled echogenic appearance, and some loss of portal markings. No nodules or masses evident. Small gall bladder containing normal anechoic bile. Normal appearance and thickness of the gall bladder wall. Normal bile duct.

**Gastrointestinal**

Normal appearance of the stomach, duodenum, ileo-cecal junction, and colon with no loss of layering, normal wall thickness and peristaltic activity, and no lumen distension. Prominent hypoechogenic appearance of the submucosal layer of the small intestine but with no loss of layering or distension of the lumen.

**Pancreas**

Normal size and echogenic appearance. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

**INVOICE**

302557

**DATE**

9/15/21

**IMAGING PERFORMED BY**

Dr Mychajlonka

**HOSPITAL NAME**

Craig Road Animal  
Hospital

**REFERRING VET**

Dr Mychajlonka



**PATIENT** *Free Abdomen*

Linus Huntington Normal mesenteric lymph nodes.  
No ascites.

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**ULTRASONOGRAPHIC FINDINGS**

Primary Findings:

- Renal disease.
- Hepatopathy.
- Enteropathy.

Secondary Findings:

- Urinary bladder sediment.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The appearance of kidneys is indicative of chronic kidney disease with bacterial nephritis a differential diagnosis.

Etiologies for the hepatopathy would be vacuolar, metabolic, early nodular regeneration, early cirrhosis, chronic hepatitis, and infiltrative neoplasia.

Etiologies for the enteropathy would be secondary to the azotemia and non-specific enteritis (viral, bacterial, protozoal, helminths, dietary indiscretion, toxins) with inflammatory bowel disease and neoplasia less likely differential diagnoses.

Although the urinary bladder sediment may be an incidental finding, bacterial cystitis and crystalluria needs to be considered.

Initial further assessment would urine and fecal analyses, urine culture, UPC (if negative sediment), and blood pressure.

Specific therapy would be dependent on an etiological diagnosis. Initial symptomatic management would be fluid therapy as needed, anti-emetics (maropitant, metoclopramide), gastric protectants (omeprazole, sucralfate), and enteric binders.



**PATIENT IMAGES**

Linus Huntington **Kidney**

**SPECIES**

Canine

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**Liver**

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**PATIENT**

**Small intestine**

Linus Huntington

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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.

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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