



PATIENT PRESENTING CLINICAL SIGNS

Luffy Ngo History: Seizures, suspected Cushing's disease.

SPECIES Physical Examination: N/A.

Canine Urinalysis: N/A.

CBC: N/A.

BREED Serum Biochemistry: Hypernatremia.

Pomeranian Mix Radiographic Findings: N/A.

SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

MN **Urinary System**

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

9 years Normal trigone area, proximal urethra (0.5 cm), and iliac blood vessels.

WEIGHT Normal iliac lymph nodes (0.9 cm). Ureters not visualized.

18 # Normal renal size (left 5.6 cm, right 5.9 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal pelvis and capsule. Bilateral small cortical cysts.

INTERPRETED BY **Reproductive System**

Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM Small hypoechogenic prostate (1.1 cm).

Adrenal Glands

IMAGING PERFORMED BY Normal position and echogenic appearance with rounded shape and bilaterally enlarged. Left 0.79/0.65 cm, right 0.88/1.2 cm.

Sonya Myers, DVM

HOSPITAL NAME **Spleen**

Oviedo Veterinary Care and Emergency Normal size and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

REFERRING VET **Liver**

Dr Caja Enlarged with rounded edges, diffuse mottled echogenic appearance, some loss of portal markings, and regular curvilinear capsule. No nodules or masses evident. Full gall bladder containing small amount of hyperechogenic sediment. Normal thickness and echogenic appearance of the gall bladder wall. Normal bile duct (0.3 cm).

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PATIENT
Gastrointestinal

Luffy Ngo

Normal appearance of the small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness (duodenum 0.34 cm, jejunum 0.35 cm) and peristaltic activity, and no distension of the lumen. Segmental thickening of the stomach (1.1 cm) but with no loss of layering. Corrugated appearance of the duodenum

SPECIES

Canine

Pancreas
BREED

Pomeranian Mix

Enlarged (right 1.3 cm) with a hypoechoogenic appearance and irregular capsule. Visible pancreatic duct. Hyperechoogenic appearance of the mesentery and fat surrounding the pancreas.

Free Abdomen
SEX

Normal mesenteric lymph nodes (1.9 cm).

MN

No ascites.

Age

9 years

ULTRASONOGRAPHIC FINDINGS

Primary Findings:

- Pancreatitis.
- Hepatopathy.
- Bilateral adenomegaly.
- Gastroenteropathy.

WEIGHT

18 #

INTERPRETED BY

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

Secondary Findings:

- Gall and urinary bladder sediment.
- Age-related renal changes

IMAGING PERFORMED BY

Sonya Myers, DVM

HOSPITAL NAME

Oviedo Veterinary Care and
 Emergency

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The appearance of the pancreas is consistent with pancreatitis.

Etiologies for the hepatopathy would be reactive secondary to the pancreatitis, metabolic, vacuolar, nodular hyperplasia, early cirrhosis, chronic hepatitis, and infiltrative neoplasia.

Etiologies for the adenomegaly would be pituitary-dependent Cushing's disease and disease stress.

REFERRING VET

Dr Caja

The most likely etiology for the gastropathy and duodenal corrugation would be secondary to the pancreatitis with non-specific gastro-enteritis, ulcerative disease, *Helicobacter* gastritis, inflammatory bowel disease, dietary hypersensitivity, and parasitic enteritis differential diagnoses.

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Initial further assessment would be urine and fecal analyses, urine culture, cPL/PSL assay, and FNA cytology of the liver. Once stabilized additional diagnostics to consider would be adrenal function testing (ACTH stimulation/LDDS test) and endoscopy of the upper GI tract with biopsies.

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Specific therapy would be dependent on an etiological diagnosis. Management of the pancreatitis would be fluid therapy, correction of the hypernatremia, anti-emetics, gastric protectants, analgesics, low-fat intestinal diet, and ursodiol.



PATIENT

Luffy Ngo

SPECIES

Canine

BREED

Pomeranian Mix

SEX

MN

Age

9 years

WEIGHT

18 #

IMAGES

Pancreas



Right adrenal



INTERPRETED BY

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IMAGING PERFORMED BY

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REFERRING VET

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PATIENT Duodenum

Luffy Ngo

SPECIES

Canine

BREED

Pomeranian Mix

SEX

MN

Age

9 years

WEIGHT

18 #



Stomach

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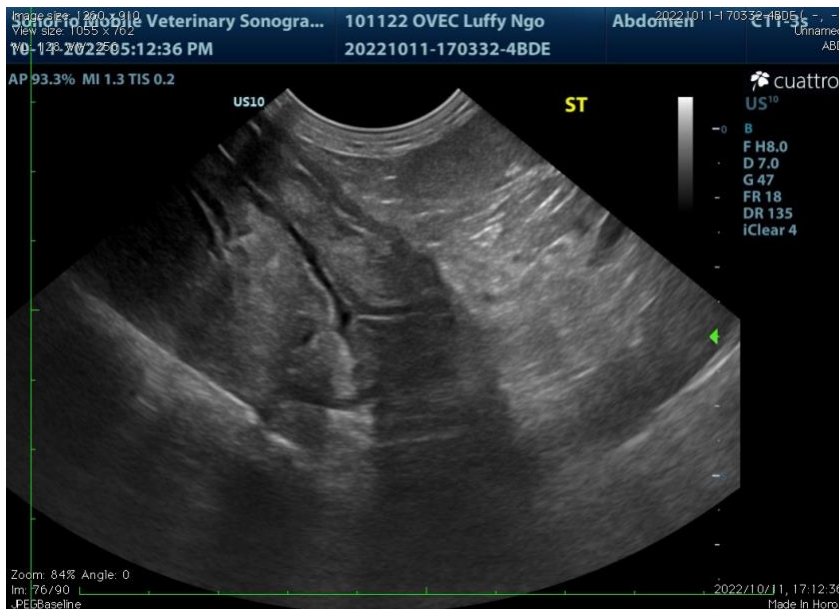
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PATIENT Liver

Luffy Ngo

SPECIES

Canine

BREED

Pomeranian Mix

SEX

MN

Age

9 years

WEIGHT

18 #



Urinary bladder

INTERPRETED BY

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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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