



PATIENT PRESENTING CLINICAL SIGNS

Murphy Mumford History: PuPd with no response to desmopressin trial.

SPECIES Physical Examination: N/A.

Canine Urinalysis: SG 1.010.

CBC: Normal

BREED Serum Biochemistry: Normal. Leptospira Snap negative.

Labrador Radiographic Findings: N/A.

SEX

MN

AGE

12 years

WEIGHT

94.5 #

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. Normal anechoic urine with no sediment or uroliths evident.

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

Normal iliac lymph nodes. Ureters not visualized.

Normal renal size (both 7.2 cm), echogenic appearance, cortico-medullary differentiation, capsule, and pelvis.

Reproductive System

Small hypoechogenic prostate.

Adrenal Glands

Normal shape, echogenic appearance, position, and size. Left 2.67 x 0.56/0.66 cm, right 2.74 x 0.42 cm.

Spleen

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

Liver

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

Gastrointestinal

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

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Jessica Miller

HOSPITAL NAME

American Animal Hospital

REFERRING VET

Dr Stockmal

INVOICE

302922

DATE

4/20/22



PATIENT *Pancreas*

Murphy Mumford Normal size and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

SPECIES *Free Abdomen*

Canine No mesenteric lymphadenomegaly.
No ascites.

BREED

Labrador

ULTRASONOGRAPHIC FINDINGS

SEX Primary Findings:

MN • None.

AGE Secondary Findings:

12 years • None.

WEIGHT

94.5 #

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

In essence a normal ultrasound examination of the abdomen. Although the adrenal glands appear normal, Cushing's disease should be considered and followed with adrenal function testing (ACTH stimulation/LDDS test).

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Other possible etiologies for the isosthenuria would be partial central diabetes insipidus, psychogenic polydipsia, medullary solute wash-out, neurological disease, and severely protein-restricted diet; with further assessment being dietary history, quantification of water intake, measurement/calculation of serum osmolality, serum SDMA, and modified water deprivation test. Serum osmolality can be calculated as follows, with the presence of low osmolality supportive of primary polydipsia:

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Jessica Miller

$$\text{Osmolality (mOsm/kg)} = 2 ((\text{sodium [mEq/L]}) + (\text{glucose [mg/dL]}/18) + (\text{BUN [mg/dL]}/2.8))$$

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Modified water deprivation test:

Increase the protein content of the diet and start with 120 mls/kg water per day for 2-3 days; then reduce to 80 mls/kg for 2-3 days; then reduce to 60mls/kg for 2-3 days. After that stop water and monitor hematocrit, total solids, and SG. Continue until 5% dehydrated. If no improvement in SG then use vasopressin and continue monitoring the SG.

REFERRING VET

Dr Stockmal

Specific therapy would be dependent on an etiological diagnosis.

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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.

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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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