



## PATIENT

The submitted study contains seven videos of the kidneys and urinary bladder only.

Capa Komraus

## PRESENTING CLINICAL SIGNS

## SPECIES

Canine

## BREED

Shetland Sheepdog

## SEX

FS

## AGE

15

## WEIGHT

17.2

## INTERPRETED BY

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

## IMAGING PERFORMED BY

Marie Allen

## HOSPITAL NAME

North County AH

## REFERRING VET

Marie Allen

## INVOICE

23812

## DATE

02/05/2026

- History of severe periodontal disease with current tooth root abscess and extremely large gingival mass.
- Free-catch urinalysis showed poor concentrating ability and blood in the urine.
- Assessing the urinary tract today
- Abnormal PE/Chem/CBC/UA Results: CBC: - Marked leukocytosis (WBC 18.9 K/ $\mu$ L) with neutrophilia and monocytosis - Thrombocytosis (529 K/ $\mu$ L) - Mild microcytic/hypochromic indices with low reticulocyte hemoglobin Chemistry - Proteins: - Hypoalbuminemia (2.3 g/dL) with low A:G ratio Liver enzymes: - Elevated ALP (349 U/L) with normal ALT, AST, and bilirubin Renal markers: - Elevated SDMA (23  $\mu$ g/dL) with normal creatinine Urinalysis (Free-Catch): - Specific Gravity 1.015 - pH 5.5 - Blood / Hemoglobin 2+ - Red Blood Cells 75-100 - Epithelial Cells 1+ (1-2)/HPF - Trace Ketones Pancreatic/muscle enzymes: - Lipase elevation (557 U/L) - Elevated CK (522 U/L)

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with mild dependent lumen hyperechoic sand / mineral. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Bilateral medullary to lateral diverticuli mineral to small non-obstructive renoliths were present. The left kidney measured 4.5 cm in length. The right kidney measured 4.8 cm in length.

## ULTRASONOGRAPHIC FINDINGS

### Primary

- Normal urinary bladder with mild dependent lumen mineral / sand
- Chronic renal changes exhibiting medullary mineral /renoliths

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered. This patient may be passing small amounts of mineral from the kidneys into the urinary bladder.



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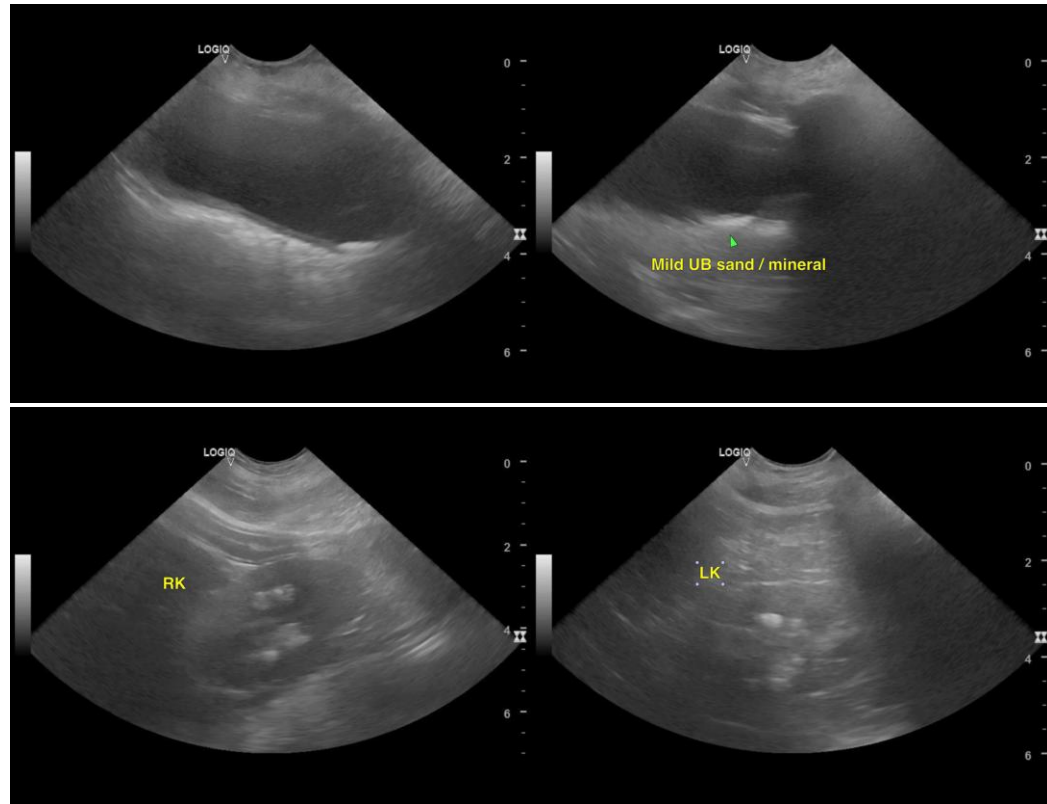
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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