



**PATIENT**

Maggie Moreno

**SPECIES**

Canine

**BREED**

Bichon Frise

**SEX**

Intact Female

**AGE**

11 Years

**WEIGHT**

6.5 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Animal Paradise  
Hospital

**REFERRING VET**

Dr. Elshafie

**INVOICE**

15068

**DATE**

5/6/22

**PRESENTING CLINICAL SIGNS**

History: Brown vaginal discharge, R/O pyometra.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized, and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some moderate age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Mineralization was present in the kidneys. The left kidney measured 3.0 cm. The right kidney measured 2.83 cm. Non-obstructive calculi were noted in the kidneys.

**Adrenal Glands**

The regions of the **adrenal glands** were unremarkable.

**Spleen**

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

**Liver**

The **liver** revealed mild microhepatica. Some mild to moderate age-related parenchymal remodeling was noted but likely not clinically significant at this time. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

**Gastrointestinal**

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted. Transit of chyme was present.

**Pancreas**



**PATIENT**

Maggie Moreno

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**SPECIES**

Canine

**Other**

The **uterus** was thickened in this patient with mild luminal dilation. The uterus measured up to 1.8 cm. Both horns were thickened up to 8.0 mm. Chronic and irregular mucosal changes were noted throughout the uterus. The ovaries were unremarkable. The left ovary measured 0.79 cm.

**BREED**

Bichon Frise

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

Intact Female

- Chronic metritis/open pyometra pattern
- Moderate chronic degenerative renal changes
- Mild Microhepatica and remodeling

**AGE**

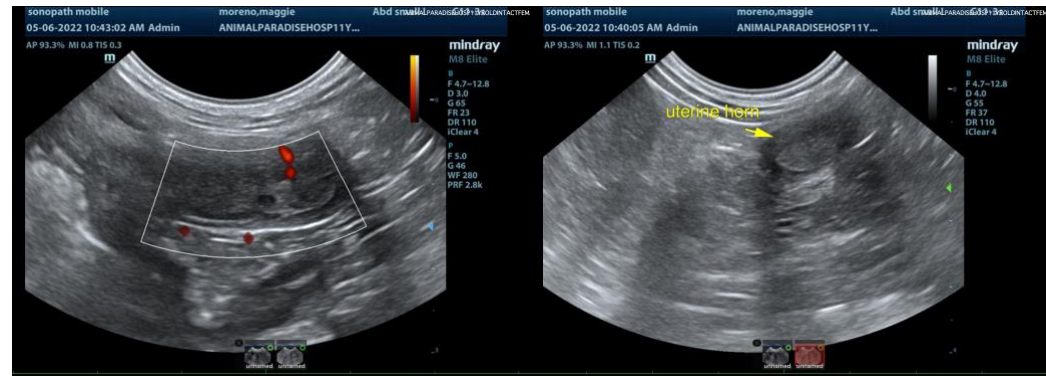
11 Years

Ovariohysterectomy strongly recommended. Bile acid profile would be warranted to assess for early hepatic dysfunction prior to surgery.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

6.5 Pounds

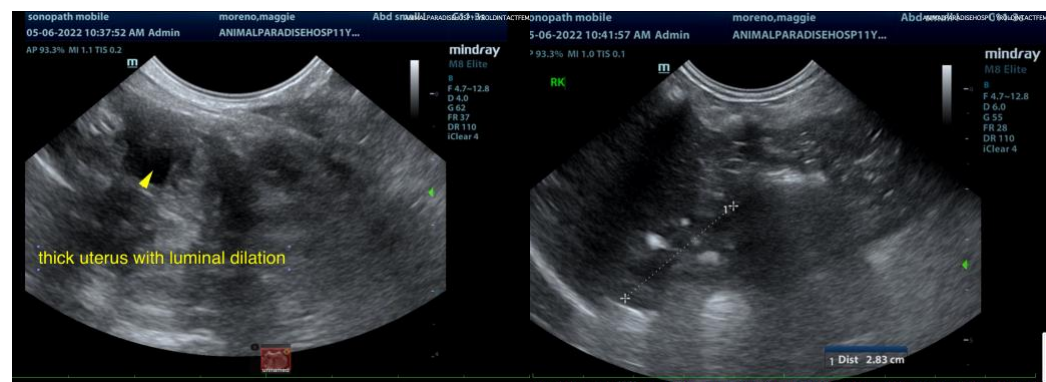


**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez



**HOSPITAL NAME**

Animal Paradise  
Hospital

**REFERRING VET**

Dr. Elshafie

**INVOICE**

15068

**DATE**

5/6/22



**PATIENT**

Maggie Moreno

**SPECIES**

Canine

**BREED**

Bichon Frise

**SEX**

Intact Female

**AGE**

11 Years

**WEIGHT**

6.5 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Animal Paradise  
Hospital

**REFERRING VET**

Dr. Elshafie

**INVOICE**

15068

**DATE**

5/6/22



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.

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
info@SonoPath.com