



|                             |   |
|-----------------------------|---|
| <b>PATIENT</b>              | <b>PRESENTING CLINICAL SIGNS</b>  |
| Piper Ulmer                 | History of environmental and food allergies. Currently on Dexamethasone. Has pot bellied appearance and elevated ALP(greater than 2000). Has been on Cytopoint, Dexamethasone.  |
| <b>SPECIES</b>              | Abnormal PE/Chem/CBC/UA Results: Mild lymphopenia, mild hyperglycemia, elevated ALP   |
| Canine                      | <b>ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN</b>  |
| <b>BREED</b>                | <b>Urinary System</b>   |
| Labrador Retriever          | The urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.  |
| <b>SEX</b>                  | The right kidney is normal in size (6.99 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.   |
| Spayed Female               | The left kidney is normal in size (6.78 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.  |
| <b>AGE</b>                  | <b>Adrenal Glands</b>   |
| 9 Years                     | The right adrenal gland is normal in size (1.8 cm long x 1.2 cm at the cranial pole and 0.75 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.   |
| <b>WEIGHT</b>               | The left adrenal gland is normal in size (1.97 cm long x 0.56 cm at the cranial pole and 0.58 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.  |
| 34 kg                       | <b>Spleen</b>   |
| <b>INTERPRETED BY</b>       | The spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.  |
| Beth Johnson, DVM<br>DACVIM | <b>Liver</b>  |
| <b>IMAGING PERFORMED BY</b> | Liver is subjectively enlarged (swollen contour) without disruption of architecture. It has a normal homogenous echotexture. Parenchyma is diffusely hyperechoic characterized by less prominent than normal portal vein walls and increased echogenicity relative to the spleen and falciform fat. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion. |
| Crystal Hill                | <b>REFERRING VET</b>  |
| <b>HOSPITAL NAME</b>        | Dr. Puckering   |
| New Hamburg VC              | Gallbladder is moderately distended with anechoic bile as well as suspended and gravity dependent echogenic debris. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.  |
| <b>INVOICE</b>              | <b>Gastrointestinal</b>   |
| 41574                       | The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.  |
| <b>DATE</b>                 |   |
| 9/22/22                     |   |



**PATIENT**

Piper Ulmer

The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

**SPECIES**

Canine

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

***Pancreas***

**BREED**

Labrador Retriever

The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

**SEX**

Spayed Female

***Free Abdomen***

There is no evidence of free peritoneal effusion noted in these images.

There is no apparent lymphadenopathy noted in these images.

**AGE**

9 Years

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

34 kg

- **Hyperechoic hepatomegaly** - This appearance is non-specific and most consistent with a benign steroid (endocrine) or vacuolar hepatopathy or reactive or idiopathic hepatopathy. Inflammatory and/or infiltrative disease (such as round cell neoplasia) are also possible, but considered less likely.
- **Gallbladder debris** - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili.

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

This patient's reported clinical appearance, laboratory changes, and ultrasound findings are all consistent with possible iatrogenic Cushing's syndrome caused by chronic steroid administration. Given the mild hyperglycemia, recommendations include:

Urinalysis and, if indicated based on urinalysis results, urine culture are recommended. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ration is recommended.

Close monitoring of blood glucoses are recommended to catch emerging diabetes mellitus possibly brought on by chronic steroids, and if possible, considerations could be given to alternative treatments such as modified cyclosporine, etc. if well tolerated, which would hopefully allow tapering of the steroids to reduce clinical side effects being reported.

**IMAGING PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

New Hamburg VC

**REFERRING VET**

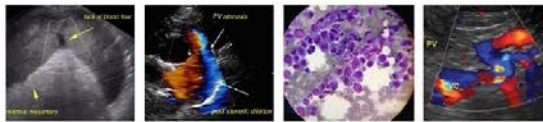
Dr. Puckering

**INVOICE**

41574

**DATE**

9/22/22



**PATIENT**

Piper Ulmer

**SPECIES**

Canine

**BREED**

Labrador Retriever

**SEX**

Spayed Female

**AGE**

9 Years

**WEIGHT**

34 kg

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**IMAGING PERFORMED BY**

Crystal Hill

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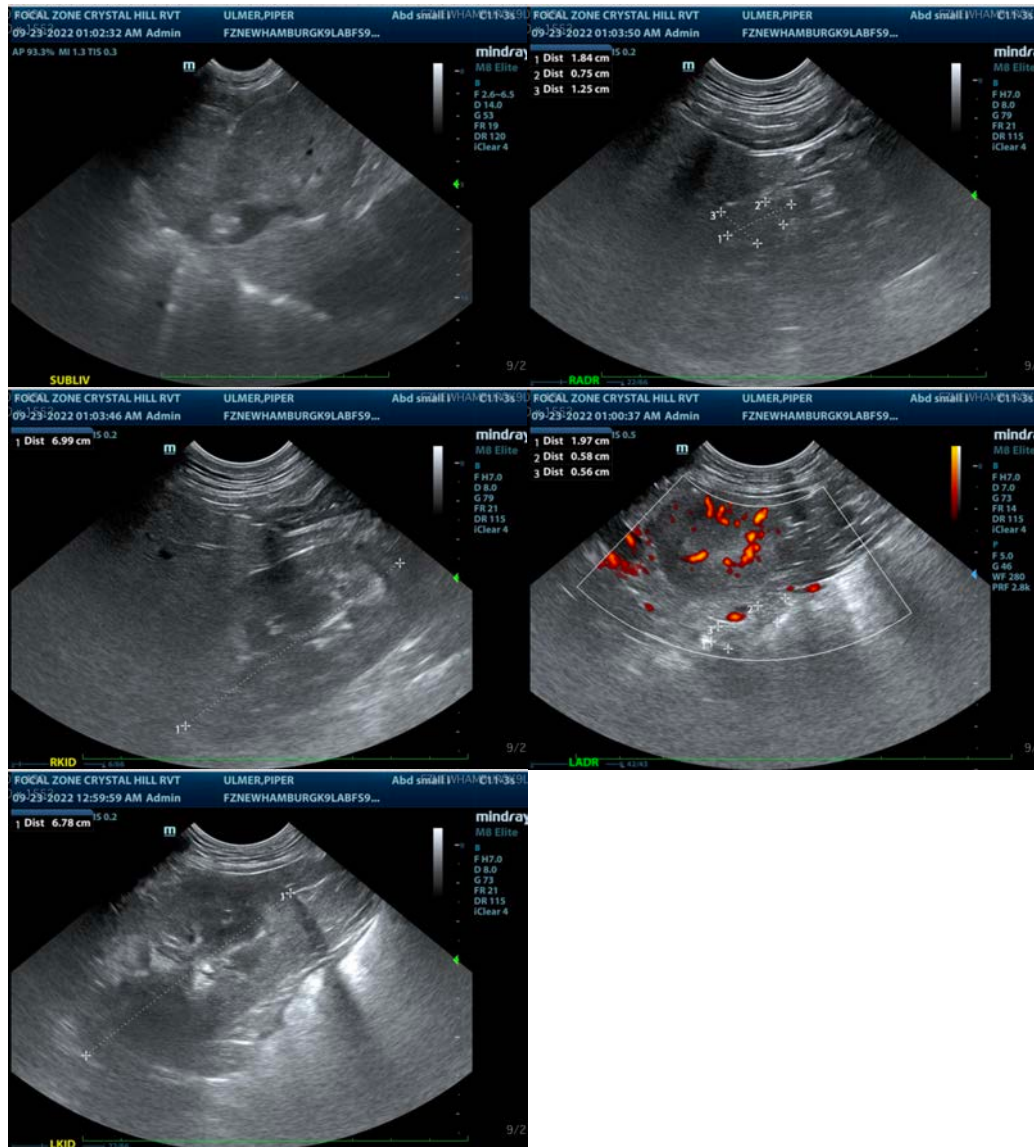
Dr. Puckering

**INVOICE**

41574

**DATE**

9/22/22



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.

**Beth Johnson, DVM, DACVIM**  
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