



**PATIENT PRESENTING CLINICAL SIGNS**

Baby Fieger

**SPECIES**

Canine

**BREED**

Shar Pei Mix

**SEX**

Female spayed

**AGE**

12 Years

**WEIGHT**

45.4 lbs.

History: P has had a chronic vomiting issue for a few years duration. Before it started, P never had issues. Last year ab abdominal ultrasound was performed by a different service. A moderate increase in lipase and moderate increase in cPL have been consistent, rest WNL. Abdominal ultrasound was WNL, including the pancreas. P was on I/D low fat with mild resolution but was switched to a hydrolyzed diet with no resolution. Tried Z/D with no resolution. Currently on Z/D. Vomits bile multiple times a day. Weight has been stable. Cerenia helps but not cost-effective long-term. Probiotics did not help. Previous ultrasound: Abdominal ultrasound: Liver and biliary tree: The liver is mildly enlarged and diffusely mildly hyperechoic in appearance, with smooth margins and homogenous parenchyma. The gallbladder is medium sized, thin walled, and contains a small amount of hyperechoic, gravity dependent. Gastrointestinal tract: The stomach contains a small amount of gas. Wall thickness is normal. There is no evidence of pyloric outflow tract obstruction. No abnormalities are noted to the small intestinal tract or colon, with all segments measuring within normal limits for wall thickness and having normal layering. Pancreas: The pancreas is normal in size (1 cm) and no abnormalities are noted to the visible parenchyma. Lymph nodes: Within normal limits for size and shape. Spleen: The spleen is normal in size (1.4 cm) and displays normal echogenicity and smooth margins. Kidneys: Both kidneys are appropriate in size (LK=5.4 cm RK= 5.4 cm). Corticomedullary distinction is normal bilaterally and margins are smooth. The cortices display mild hyperechoic striations bilaterally. No pyelectasia or nephroliths are present. Adrenals: Both adrenal glands are normal in size (LA= 0.37 cm RA= 0.43 cm) and shape. Urinary bladder: The urinary bladder contains a moderate amount of anechoic urine. Wall thickness is normal. No uroliths or masses are present in the bladder lumen or visible proximal urethra.

Abnormal PE/Chem/CBC/UA Results: 12/21/18: cPL: 422 ug/L. Rest WNL cPL ran multiple times throughout the last few years, consistently elevated between 462 ug/L-615 ug/L. 1/14/21: lipase: 499 U/L. Free t4 and total T4 at low normal, 1.3 and 1.0 respectively Multiple fecals ran, all with no parasites found.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

*Urinary System*

The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder lumen is moderately distended with mostly anechoic urine. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2 cm, are normal.

The left kidney is normal size (5.15 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

The right kidney is normal size (6.13 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

*Adrenal Glands*

The left adrenal gland is normal size (0.48 cm at cranial pole) (0.49 cm at caudal pole) (2.04 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

**IMAGING PERFORMED BY**

Dr. Hadi

**HOSPITAL NAME**

Bethany Family Pet  
Center

**REFERRING VET**

Dr. Hadi

**INVOICE**

11820kk

**DATE**

9/14/21



**PATIENT**

Baby Fieger

The caudal pole of the right adrenal gland is visualized and is normal size (0.60 cm in width) with a normal shape, glandular echogenicity, and detail. Surrounding vasculature are normal.

**Spleen**

**SPECIES**

Canine

The spleen is normal in size with a normal capsular contour. There is appropriate echogenicity and echotexture. Several small hyperechoic nodules are observed throughout the organ. Splenic vasculature is normal.

**BREED**

Shar Pei Mix

**Liver**

**SEX**

Female spayed

The liver is subjectively prominent in size with normal curvilinear peripheral contours. The parenchyma is isoechoic relative to the spleen and slightly mottled in appearance. No distinct focal lesions are observed. Vascular and biliary tracts are of normal volume with no evidence of congestion. The gall bladder lumen is moderately distended. The wall is thin and smooth. A small amount of aggregated, echogenic, partially dependent debris is observed within the lumen. The cystic and common bile ducts are normal/not seen.

**AGE**

12 Years

**Gastrointestinal**

**WEIGHT**

45.4 lbs.

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

**Pancreas**

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

The right limb of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely isoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated. There is no evidence of peripancreatic inflammation or effusion.

**Free Abdomen**

**IMAGING PERFORMED BY**

Dr. Hadi

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.

**ULTRASONOGRAPHIC FINDINGS**

**HOSPITAL NAME**

Bethany Family Pet  
Center

**Primary Findings:**

- The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.

**Secondary Findings:**

- The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, regenerative nodular hyperplasia, and/or age-related remodeling. Inflammatory and infiltrative disease are considered less likely.
- The hyperechoic lesions adjacent to the splenic vessels are most consistent with myelolipomas. Although a neoplastic process within the spleen cannot be excluded, it is considered unlikely in this patient.

**REFERRING VET**

Dr. Hadi

**INVOICE**

11820kk

**DATE**

9/14/21



## PATIENT

Baby Fieger

\*\*An obvious cause for the patient's chronic vomiting is not identified in this study. Chronic pancreatitis is a consideration, particularly if the patient is painful on abdominal palpation. A microscopic enteropathy or an underlying metabolic issue are also possible.

## SPECIES

Canine

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

1. Three-view thoracic radiographs are recommended to assess for occult esophageal disease.
2. Other diagnostic considerations include the following:
  - a. A malabsorption panel including serum cobalamin, folate, PLI and TLI.
  - b. A resting cortisol level to screen for hypoadrenocorticism. If resting cortisol level is < 2.0 mcg/dL, an ACTH stimulation test is recommended.
  - c. +/- endoscopic or surgical gastrointestinal biopsies.

## BREED

Shar Pei Mix

## SEX

Female spayed

## AGE

12 Years

## WEIGHT

45.4 lbs.



## INTERPRETED BY

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)



## IMAGING PERFORMED BY

Dr. Hadi

## HOSPITAL NAME

Bethany Family Pet  
Center



## REFERRING VET

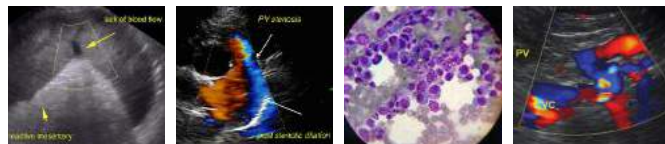
Dr. Hadi

## INVOICE

11820kk

## DATE

9/14/21



## PATIENT

Baby Fieger

## SPECIES

Canine

## BREED

Shar Pei Mix

## SEX

Female spayed

## AGE

12 Years

## WEIGHT

45.4 lbs.

## INTERPRETED BY

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(*Small Animal Internal  
Medicine*)

## IMAGING PERFORMED BY

Dr. Hadi

## HOSPITAL NAME

Bethany Family Pet  
Center

## REFERRING VET

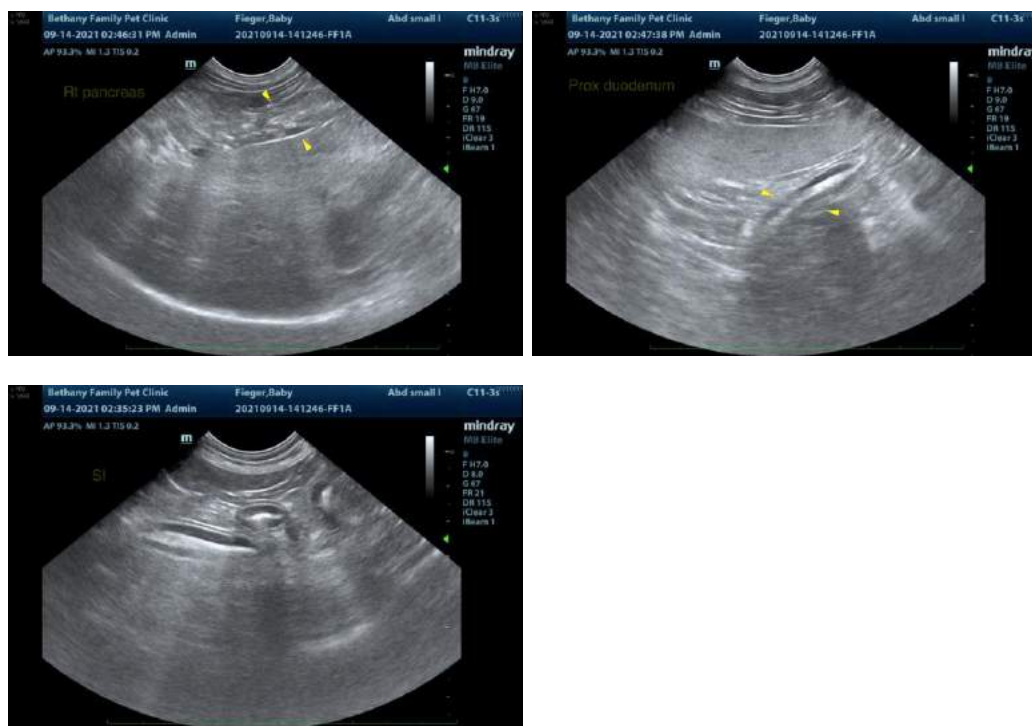
Dr. Hadi

## INVOICE

11820kk

## DATE

9/14/21



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.

Andrea Nicastro, DVM, Diplomate ACVIM (*Small Animal Internal Medicine*)  
Andrea.nicastro@sonopath.com