

PATIENT

Minou Durand

SPECIES

Canine

BREED

Mix Breed Pug

SEX

Female Spayed

AGE

11 Years

WEIGHT

33 lbs

INTERPRETED BY

Sebastian Jawinski,
German Board Certified
Vet Specialist in
Diagnostic Imaging

IMAGING PERFORMED BY

Dr. Gabriel Ferrer
DVM

HOSPITAL NAME

Pulse: Pet Ultrasound
Services

REFERRING VET

Dr. Alfred Marzan

INVOICE

47749

DATE

10-8-21

PRESENTING CLINICAL SIGNS

Minou presented for an abdominal ultrasound. Pt recently vomited two times and wanted to further evaluate (the vomiting episodes occurred about 2 days ago). Currently no more vomiting and patient has been doing well. Pt has a history of intestinal adenocarcinoma that was completely removed from the ileum/cecum area with a resection and anastomosis surgery in June of 2021, and wanted make sure no masses or other abnormalities were seen in the abdomen.

Abnormal PE/Chem/CBC/UA Results: The PE did not show any major abnormalities related to the recent vomiting episodes. Abdominal rads: N major abnormalities Blood Work: CBC and Chemistry : All the values are within normal limits.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary system

The urinary bladder, trigone and pelvic urethra present normal findings without evidence of uroliths or sediment. Wall layering is intact on all views without focal or diffuse thickening. Ureters are not visualized and considered to be normal. No evidence of an inflammatory or neoplastic process are noted.

Both kidneys are inconspicuous with a clear corticomedullary definition. Renal pelvises and exit to the ureters are unremarkable.

Adrenal glands

Both adrenals present an asymmetric shape with a mass-like, hyperechoic lesion that measures 1.02 cm in the left adrenal gland and 0.74 cm in the right.

Spleen

The spleen shows a sharply marginated, hypoechoic and mildly amorphous nodule of 0.67 x 0.39 cm. A central vessel is suspected. Another ill-defined hypoechoic, rounded lesion is identified cranial to the first measuring 0.45 cm. Apart from that the spleen is inconspicuous in terms of size, surface and echotexture and shows diameters of 1.59 cm. Splenic vasculature presents normal course of vessels and unremarkable perfusion of the splenic veins.

Liver/Gallbladder

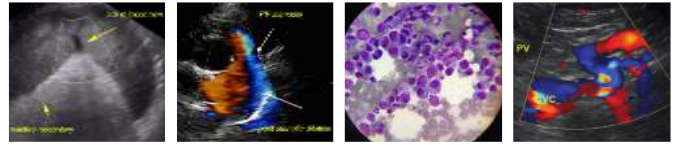
Liver images are inconspicuous. Echotexture, size and vasculature appear regular. Evidence of nodular or focal changes is not visible. The gallbladder and -wall are unremarkable without signs of relevant sludge, a florid process or cholestasis.

Gastrointestinal

There is a focal hyperechoic infiltration of the duodenum distal to the pylorus noted. Wall layers appears intact at this level but look mildly fuzzy (1). Additional to that a focal, asymmetric and hypoechoic wall thickening of the jejunum is recognized adjacent to the gallbladder/pancreas/duodenum (2). Another mass-like, hyperechoic lesion is seen adjacent to the latter with loss of the wall layering and maximum diameters of 1.47 cm (3). Adjacent mesentery and fat tissue are of normal appearance. Mesentery in the periphery of the ileocolic junction appears mildly hyperechoic. There is no evidence of an ileus.

Mesenteric lymph nodes are inconspicuous in shape, size and periphery.

Pancreas



PATIENT

Minou Durand

All pancreatic parts displayed show a mildly hyperechoic echogenicity to the surrounding omental fat. Signs of overt inflammatory changes or focal lesions are missing.

Free Abdomen

SPECIES

Canine

There is no peritoneal or retroperitoneal effusion noted.

Abdominal fat and great vessels show no pathological findings.

BREED

Mix Breed Pug

ULTRASONOGRAPHIC FINDINGS

Primary

- Mass-like lesion of the jejunum adjacent to the anastomosis 1.47 cm
- Jejunal anastomosis with an asymmetric thickening of the wall
- Focal hyperechoic infiltration duodenum

SEX

Female Spayed

Secondary

- Asymmetric adrenal glands with a hyperechoic mass-like lesion in each gland
- Mildly hyperechoic pancreas and mesentery/fat ileocolic junction
- Two hypoechoic nodules spleen

AGE

11 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

33 lbs

The mass-like lesion of the jejunum is highly suspicious for neoplasia and could represent a recurrent intestinal adenocarcinoma. I would strongly recommend a complete staging of the patient before considering another surgery (contrast CT chest/abdomen). A sonographic recheck could be performed in short term (1 week) to rule out artificial mass-like lesions which are not suspected in this case.

INTERPRETED BY

Sebastian Jawinski,
German Board Certified
Vet Specialist in
Diagnostic Imaging

The focal hyperechoic infiltration of the proximal duodenum may show an early-stage neoplastic process. This finding is currently non-specific and could represent focal inflammation as well.

Mesenteric lymph nodes are inconspicuous, and presence of free fluid is not recognized.

IMAGING PERFORMED BY

Dr. Gabriel Ferrer
DVM

The mildly hyperechoic pancreas and the periphery of the ileocolic junction likely are reactive residuals of the former laparotomy and are not of clinical relevance.

HOSPITAL NAME

Pulse: Pet Ultrasound
Services

Asymmetry of the adrenal glands is caused by a hyperechoic mass-like lesion which is commonly bilaterally seen with myelolipoma in older patients. Malignant neoplasia cannot be fully ruled out, a sonographic recheck to monitor constancy in size and shape is recommended (8 weeks). Monitoring of the blood pressure and ACTH stimulation test could be performed additionally.

REFERRING VET

Dr. Alfred Marzan

The splenic lesions are very unspecific. Final assessment is a matter of the temporal evolution. Benign lesions such as extramedullary hematopoiesis, nodular hyperplasia and hemangioma are possible as well as malignant neoplasia and metastasis. Spleen should be included in a staging procedure or rechecked with ultrasound regularly.

INVOICE

47749

DATE

10-8-21



PATIENT

Minou Durand

SPECIES

Canine

BREED

Mix Breed Pug

SEX

Female Spayed

AGE

11 Years

WEIGHT

33 lbs

INTERPRETED BY

Sebastian Jawinski,
German Board Certified
Vet Specialist in
Diagnostic Imaging

**IMAGING
PERFORMED BY**

Dr. Gabriel Ferrer
DVM

HOSPITAL NAME

Pulse: Pet Ultrasound
Services

REFERRING VET

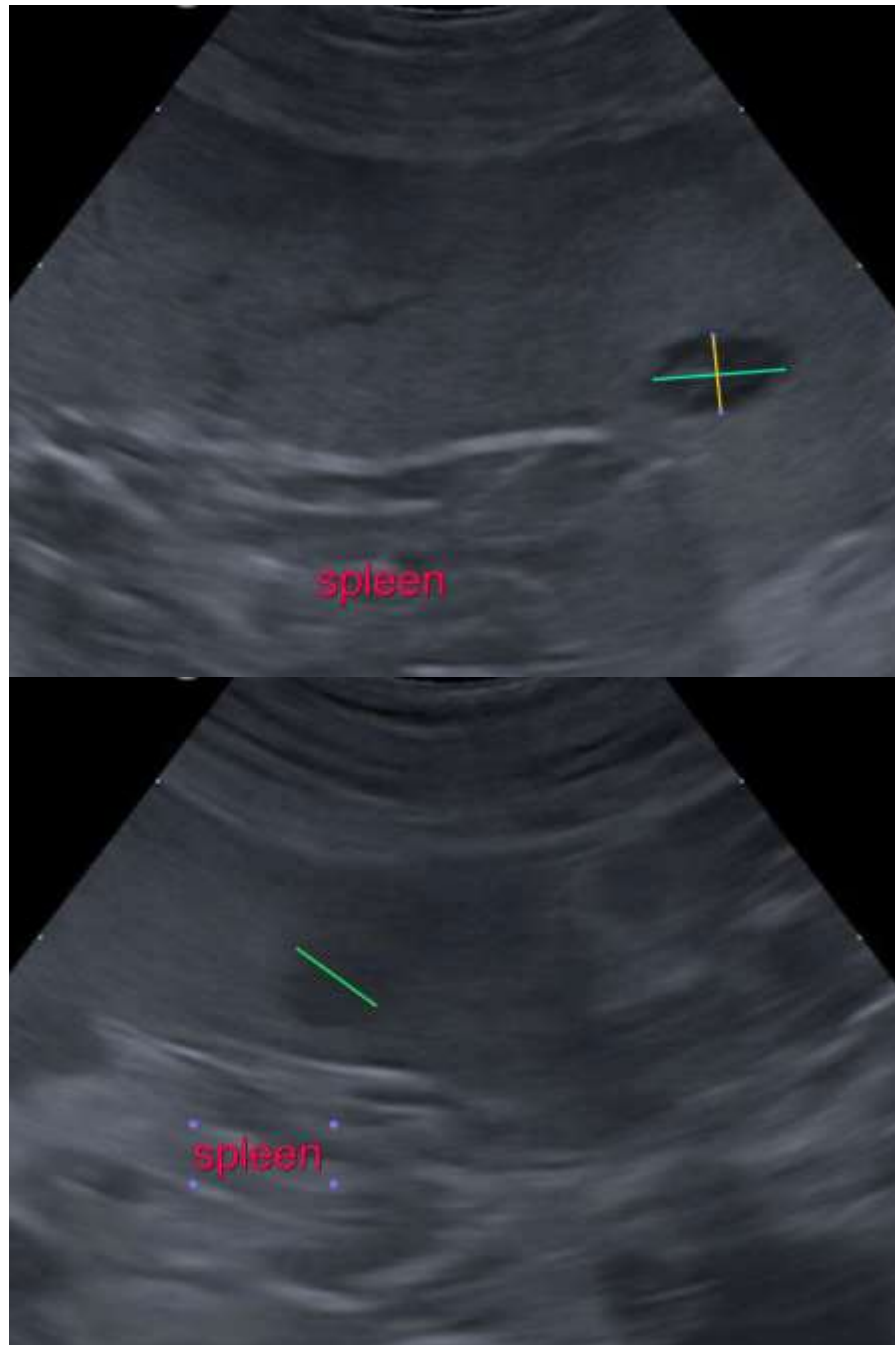
Dr. Alfred Marzan

INVOICE

47749

DATE

10-8-21





PATIENT

Minou Durand

SPECIES

Canine

BREED

Mix Breed Pug

SEX

Female Spayed

AGE

11 Years

WEIGHT

33 lbs

INTERPRETED BY

Sebastian Jawinski,
German Board Certified
Vet Specialist in
Diagnostic Imaging

**IMAGING
PERFORMED BY**

Dr. Gabriel Ferrer
DVM

HOSPITAL NAME

Pulse: Pet Ultrasound
Services

REFERRING VET

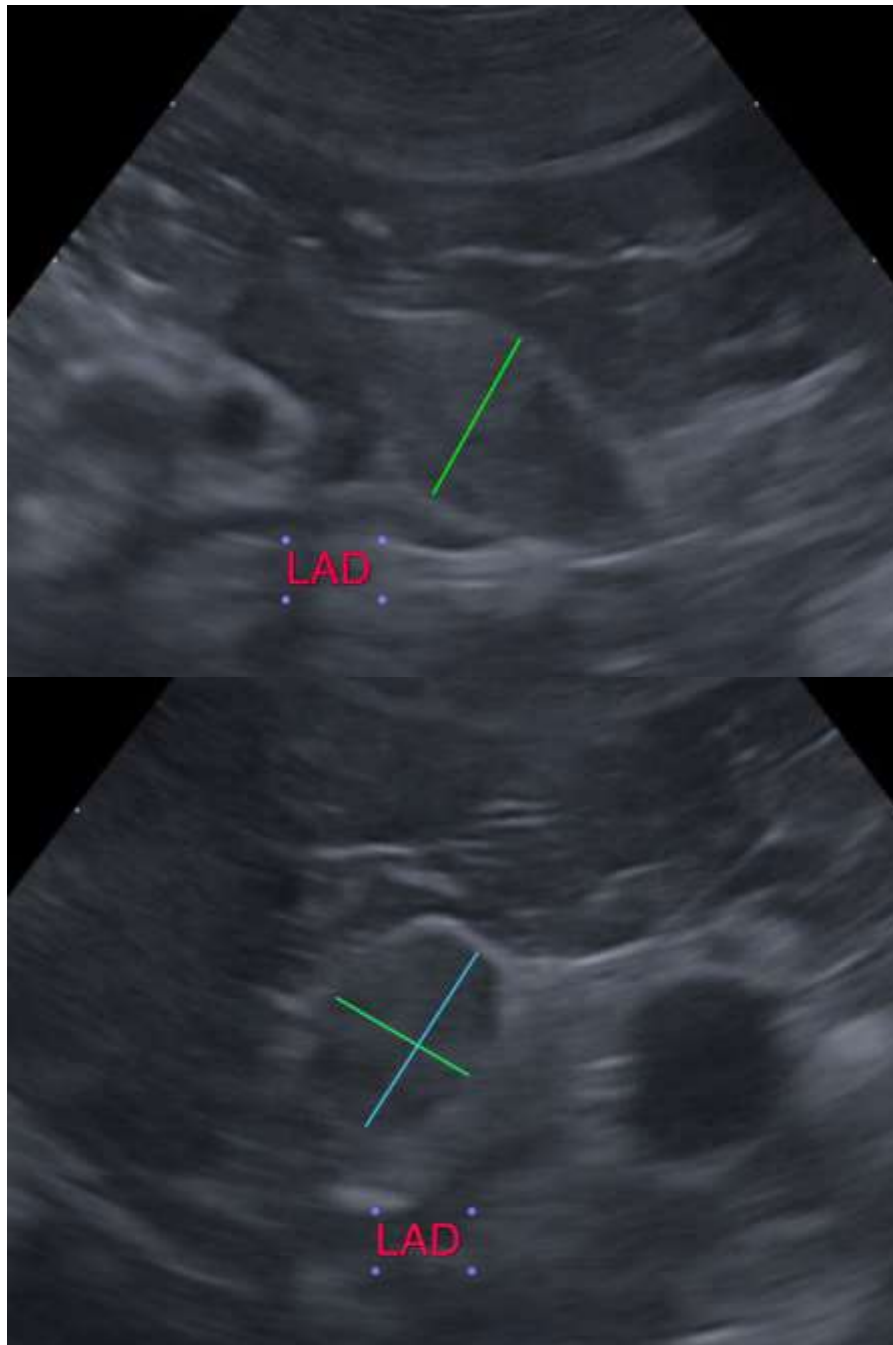
Dr. Alfred Marzan

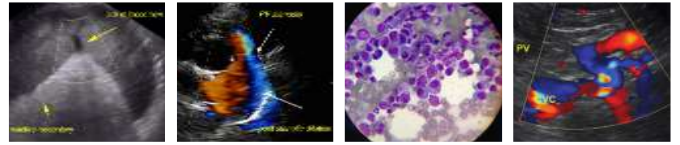
INVOICE

47749

DATE

10-8-21





PATIENT

Minou Durand

SPECIES

Canine

BREED

Mix Breed Pug

SEX

Female Spayed

AGE

11 Years

WEIGHT

33 lbs

INTERPRETED BY

Sebastian Jawinski,
German Board Certified
Vet Specialist in
Diagnostic Imaging

**IMAGING
PERFORMED BY**

Dr. Gabriel Ferrer
DVM

HOSPITAL NAME

Pulse: Pet Ultrasound
Services

REFERRING VET

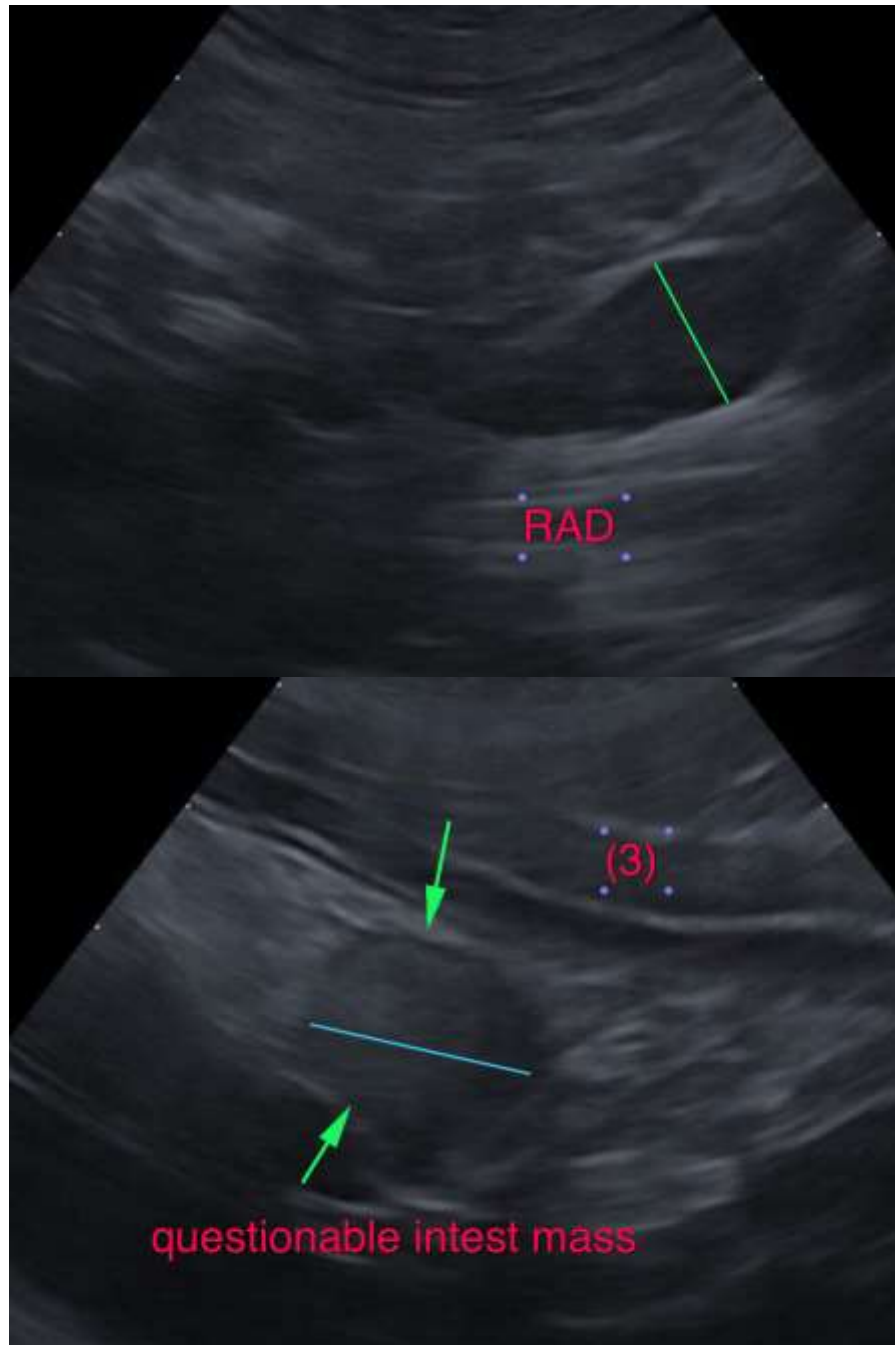
Dr. Alfred Marzan

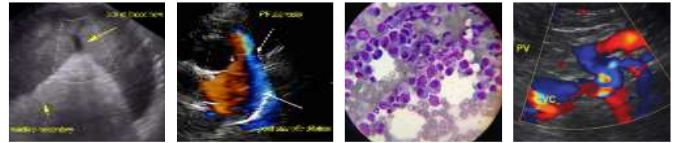
INVOICE

47749

DATE

10-8-21





PATIENT

Minou Durand

SPECIES

Canine

BREED

Mix Breed Pug

SEX

Female Spayed

AGE

11 Years

WEIGHT

33 lbs

INTERPRETED BY

Sebastian Jawinski,
German Board Certified
Vet Specialist in
Diagnostic Imaging

**IMAGING
PERFORMED BY**

Dr. Gabriel Ferrer
DVM

HOSPITAL NAME

Pulse: Pet Ultrasound
Services

REFERRING VET

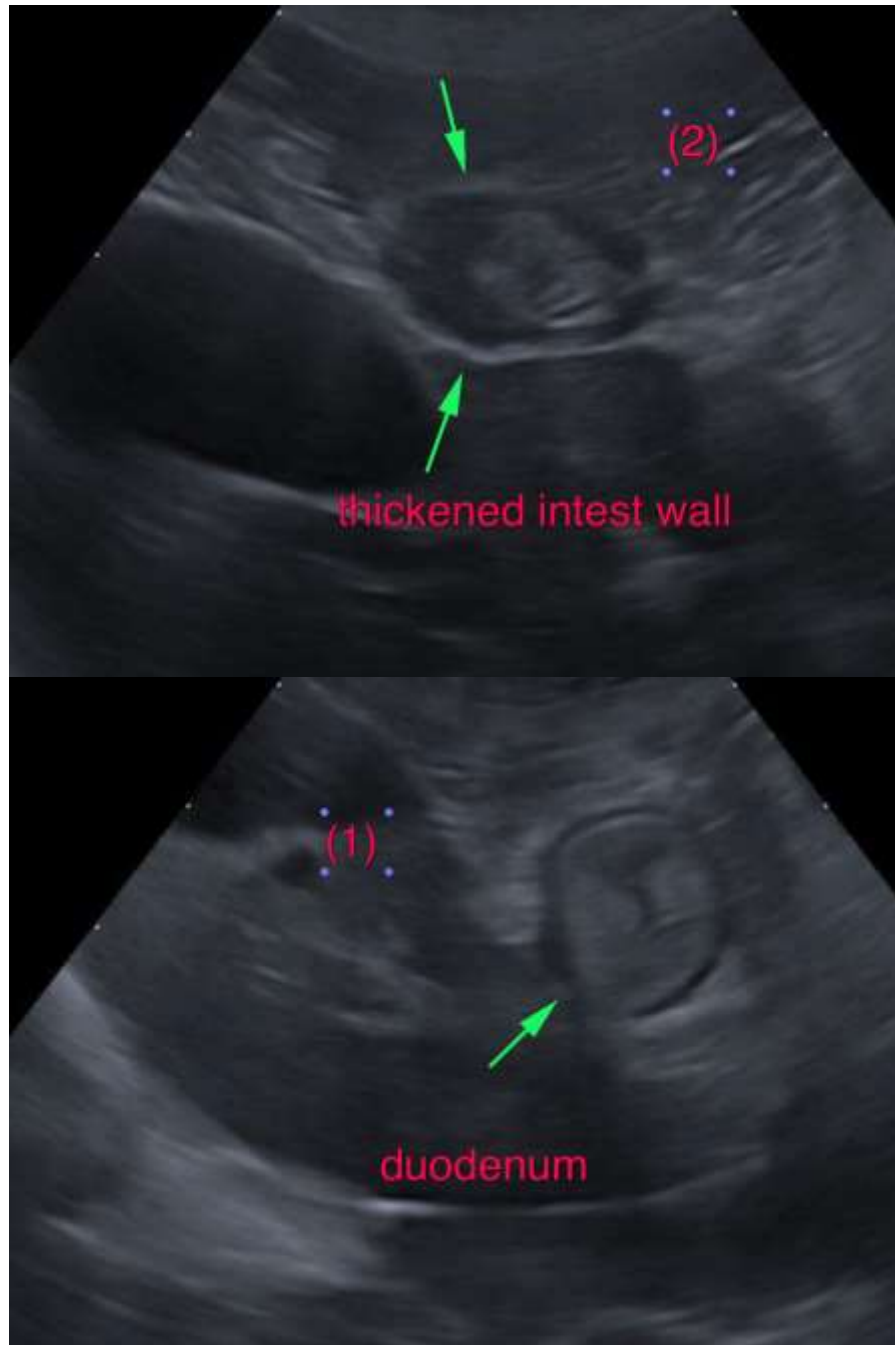
Dr. Alfred Marzan

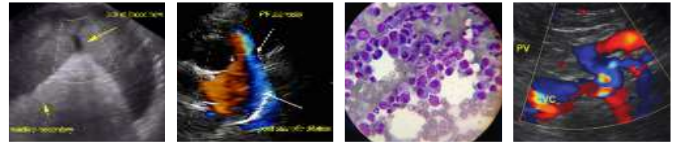
INVOICE

47749

DATE

10-8-21





PATIENT

Minou Durand

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.

SPECIES

Canine

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.

BREED

Mix Breed Pug

Sebastian Jawinski, German Board Certified Vet Specialist in Diagnostic Imaging
info@sonopath.com

SEX

Female Spayed

AGE

11 Years

WEIGHT

33 lbs

INTERPRETED BY

Sebastian Jawinski,
German Board Certified
Vet Specialist in
Diagnostic Imaging

**IMAGING
PERFORMED BY**

Dr. Gabriel Ferrer
DVM

HOSPITAL NAME

Pulse: Pet Ultrasound
Services

REFERRING VET

Dr. Alfred Marzan

INVOICE

47749

DATE

10-8-21