



PATIENT	PRESENTING CLINICAL SIGNS
Holly Pippa Valenza	Recheck thickened gastric wall, scan for FNA showed splenic +/- liver nodule. FNA inconclusive. Current meds: Pepcid 20mg BID, Pred 20mg BID, Entyce 2.5cc SID
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	Urinary System
BREED	The urinary bladder is adequately distended with anechoic contents. The wall is smooth, except for a very mild irregular mucosa at the apex. No abnormalities are noted with the trigone or proximal urethra, and there is no evidence of sediment, cystoliths, polyps or a mass.
Samoyed	Kidneys
SEX	The left kidney measures 6.70 cm. The capsule is smooth and its overall architecture as well preserved for a dog of Holly's age, with only a very mild loss of the normal definition of the corticomedullary junction. Very mild mineralization of the diverticulae and pelvis are present, without signs of nephroliths or pyelectasia. Blood flow is considered very good. The surrounding mesentery is very mildly hyperechoic.
Spayed Female	The right kidney measures 7.05 cm. The capsule is smooth and its overall architecture as well preserved for a dog of Holly's age, with only a very mild loss of the normal definition of the corticomedullary junction. The medulla is hyperechoic circumferentially as it traverses the corticomedullary junction. Mild to moderate mineralization of the diverticulae and pelvis are present, without signs of nephroliths or pyelectasia. Blood flow is considered very good. The surrounding mesentery is not hyperechoic.
AGE	Aortic bifurcation/trifurcation
10 Years	No abnormalities observed.
WEIGHT	Adrenal Glands
58.8 Pounds	The left adrenal gland measures 0.46 cm - 0.54 cm at the cranial pole (depending on the angle), 0.40 cm at the caudal pole. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.
INTERPRETED BY	The right adrenal gland measures 0.86 cm - 1.02 cm at the cranial pole (depending on the angle), 0.28 cm at the caudal pole and 2.08 cm in length. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The cranial pole is wider and "more square" in shape compared to normal however an actual mass is not visualized. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.
Lisa Carioto, DVM, DVSc, Diplomate ACVIM	Spleen
IMAGING PERFORMED BY	The dorsal and ventral aspects of the capsule at the head of the spleen is scalloped. The mesentery surrounding the spleen is mildly to moderately hyperechoic.
Jessica Miller	1. A hypo to anechoic nodule is observed at the head of the spleen; it does not alter the integrity of the capsule. The nodule measures 0.5 cm in diameter x 0.37 cm in length.
HOSPITAL NAME	2. A hypoechoic nodule is observed at the head of the spleen that disrupts the integrity of the capsule is observed. It measures 0.89 cm in diameter x 1.03 cm in length.
American AH	3. A second hypoechoic nodule is observed mid-body. It, too, is subcapsular. It does not alter the integrity of the capsule; it measures 0.43 cm in diameter x 0.28 cm in length.
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PATIENT	4. A well-defined hypoechoic nodule, 0.81 cm in diameter x 1.13 cm in length, is observed at the tail of the spleen. Half of the mass is located within the splenic parenchyma, it then disrupts the integrity of the capsule and the other half is "extracapsular". It is not vascularized.
Holly Pippa Valenza	
SPECIES	No abnormalities are observed with its vasculature, i.e. congestion and thrombi are not identified.
Canine	Liver
BREED	There are no obvious signs of hepatomegaly and its borders are smooth, and sharp to mildly rounded, depending on the lobe evaluated. The liver's echotexture is homogeneous, except for the nodules noted below. The liver is mildly, but diffusely hyperechoic. It does not appear as hyperechoic today compared to Holly's original exam. It is isoechoic to the falciform fat and right renal cortex (the kidney is hyperechoic compared to normal). No abnormalities are observed with the hepatic vessels visualized.
Samoyed	
SEX	1. A well-defined hypoechoic nodule, measuring 0.93 cm in diameter x 1.90 cm in length, is observed.
Spayed Female	2. An ill-defined hypoechoic nodule is visualized adjacent to the first nodule. It measures 1.10 cm in diameter x 1.77 cm in length.
AGE	The gallbladder wall is within normal limits in thickness and echogenicity. A trivial amount of echogenic material is present within the GB. The portions of the cystic and/or common bile ducts observed are not dilated or tortuous, i.e. there are no signs of an obstruction.
10 Years	Gastrointestinal
WEIGHT	The gastric wall is severely thickened, measuring 1.52 cm, however, there is a marked improvement compared to Holly's previous ultrasound. The wall remains hypoechoic with a marked loss of definition of the mucosa. The definition of the wall layers in other views is decreased. No obvious abnormalities are observed with its peristalsis. The surrounding mesentery is moderately hyperechoic.
58.8 Pounds	A small amount of fluid and gas are present in the lumen of the duodenum. The mucosa is hyperechoic.
INTERPRETED BY	The small intestinal wall thickness is within normal limits and the definition of the wall layers is preserved. Fluid is present within the lumen, however, peristalsis does not appear to be affected. Abnormally dilated loops of bowel are not observed.
Lisa Carioto, DVM, DVSc, Diplomate ACVIM	The colonic wall is not thickened and mural detail is considered normal.
IMAGING PERFORMED BY	Pancreas
Jessica Miller	No overt abnormalities are observed with the echogenicity or echotexture of the left or right limbs. There is no evidence of hyperechogenicity of the surrounding mesentery, i.e., signs of active pancreatitis are not present.
HOSPITAL NAME	Other
American AH	Lymph nodes
REFERRING VET	A possible lymph node is observed in the region of the stomach. It is well circumscribed, measuring 0.90 cm in diameter x 1.00 cm in length. It is mildly heterogeneous, mildly hypoechoic, with echogenic regions.
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PATIENT

Holly Pippa Valenza

SPECIES

Canine

BREED

Samoyed

SEX

Spayed Female

AGE

10 Years

WEIGHT

58.8 Pounds

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ACVIM

IMAGING PERFORMED BY

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ULTRASONOGRAPHIC FINDINGS

- A moderate to marked decrease is observed with regard to the thickening of the stomach wall, since the administration of prednisone. However, the mucosa remains severely hypoechoic. A mild loss of definition of the wall layering remains present. Neoplasia remains the primary cause of the sonographic abnormalities. The differential diagnoses remain adenocarcinoma, lymphoma, mast cell tumour and leiomyosarcoma. The fact that the fine needle aspirate was non-diagnostic may have been due to the fact that carcinoma cells do not exfoliate well.
- The splenic nodules are a new finding, some of which disrupt the integrity of the capsule. Metastatic disease cannot be excluded due to the disruption of the integrity of the capsule. Another new finding is scalloping of the capsule. These findings are suggestive of neoplasia, however, fine needle aspirates are required to confirm this suspicion.
- The two hypoechoic hepatic nodules may be due to nodular hyperplasia or regeneration, however, metastatic lesions cannot be excluded, despite the lack of "target lesions". Fine needle aspirates are required to confirm the cause of the nodules.
- Possible mild lymphadenomegaly of a lymph node in the region of the stomach is noted. Although this may be due to reactive hyperplasia, metastatic disease cannot be excluded.
- Very mild renal changes are present, which are consistent with age-related degeneration.
- The apex of the urinary bladder is mildly irregular, therefore, a urinary tract infection cannot be excluded.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Aspirates of the hepatic and splenic nodules may be considered, however, there is a risk that the results will be non-diagnostic if a carcinoma is present.

If further diagnostics, such as endoscopy, will not be performed, one could consider pursuing treatment with toceranib (Palladia®), a tyrosine kinase inhibitor. This medication can help slow down the progression of the tumour, if it is a carcinoma or mast cell tumour. It is administered by mouth three days a week, for example, Mondays, Wednesdays, Fridays. Routine blood work, consisting of a CBC and serum biochemical profile, is required to monitor for neutropenia and elevated liver enzyme activities.

Referral to an oncologist is suggested to discuss all treatment protocols available, however, they will likely request a definitive diagnosis.



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SPECIES

Canine

BREED

Samoyed

SEX

Spayed Female

AGE

10 Years

WEIGHT

58.8 Pounds

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ACVIM

IMAGING PERFORMED BY

Jessica Miller

HOSPITAL NAME

American AH

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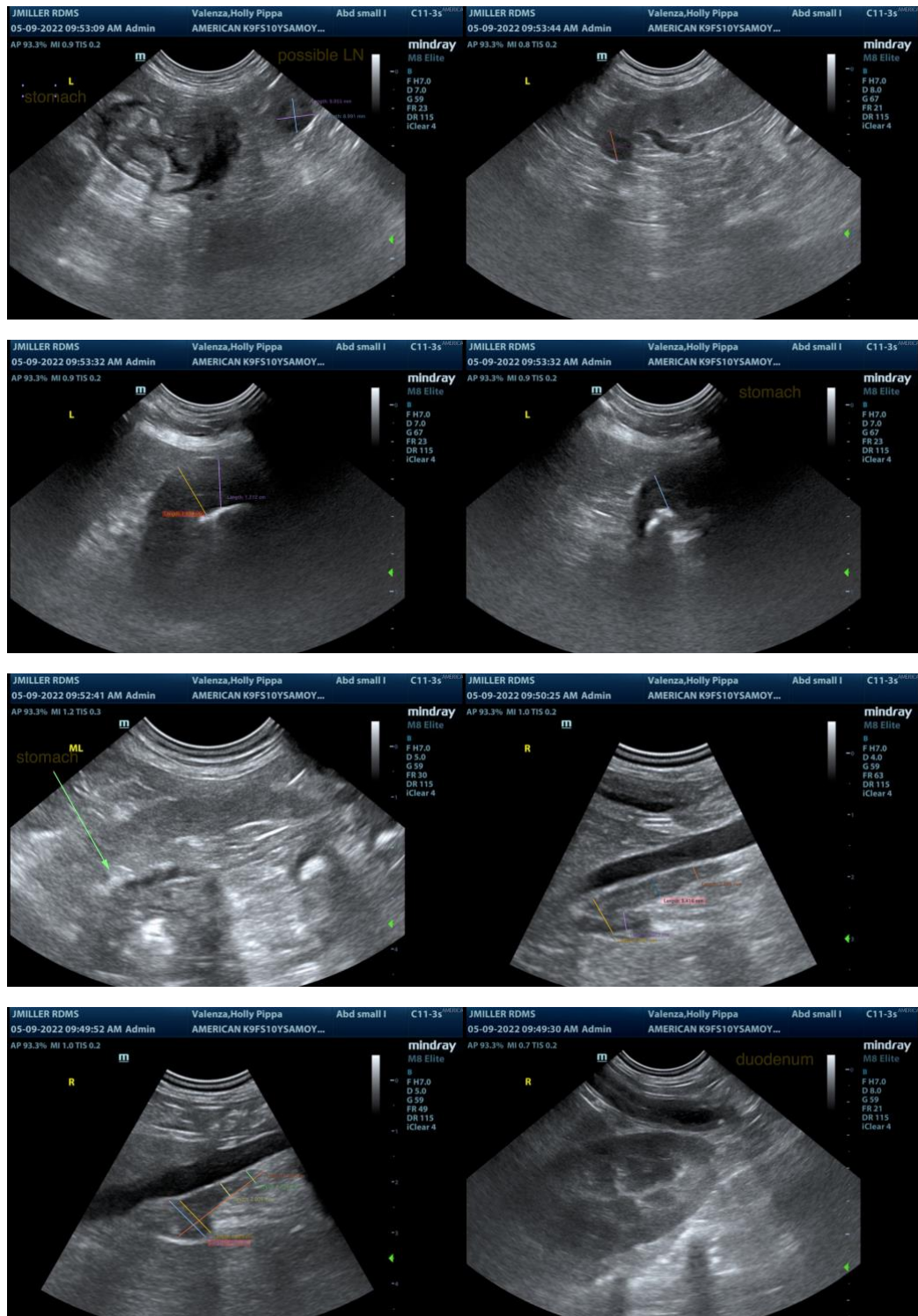
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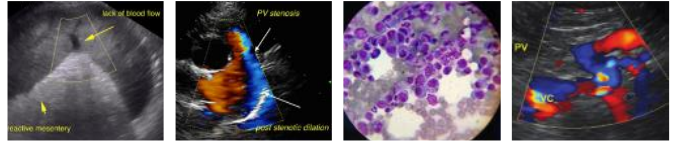
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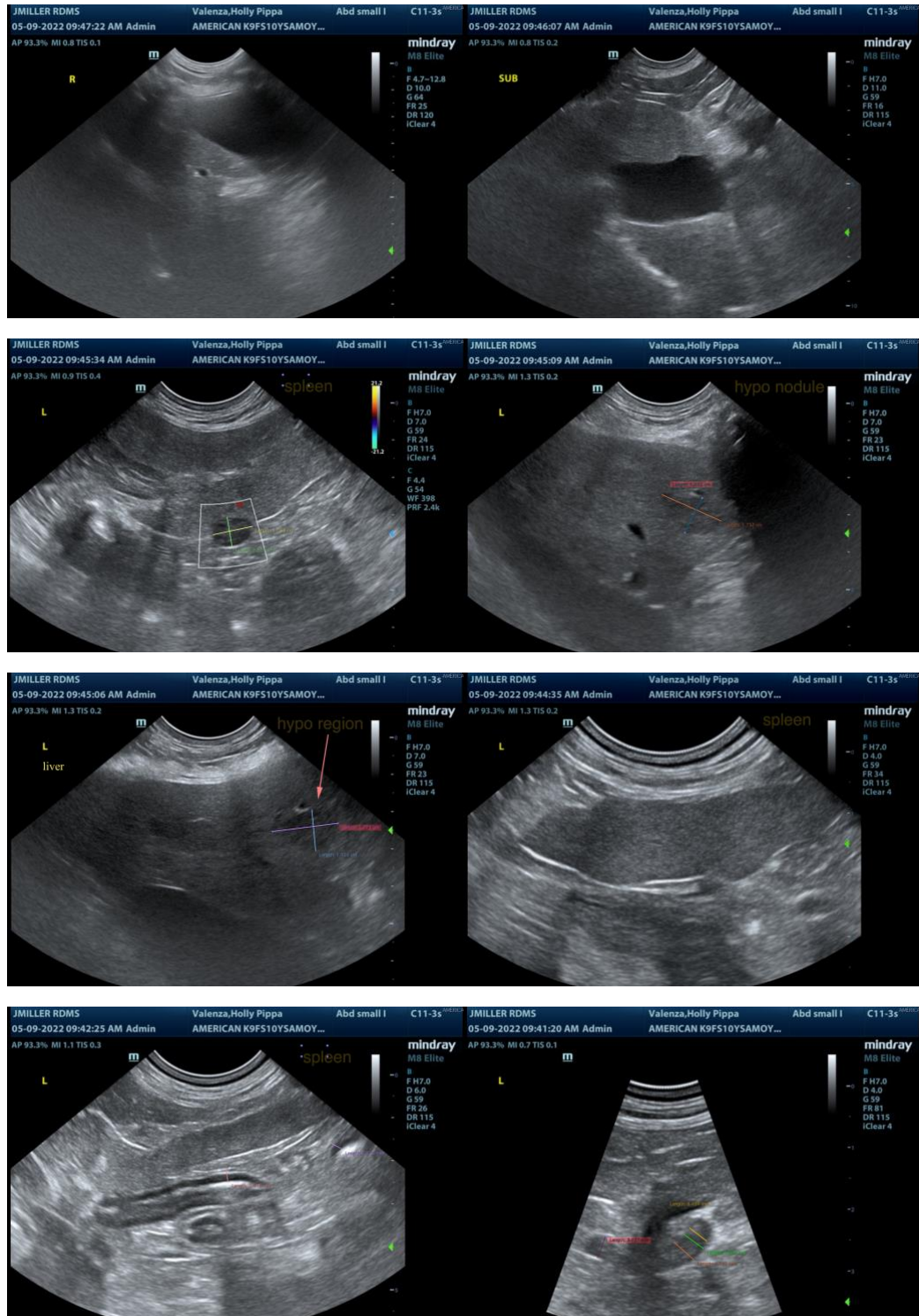
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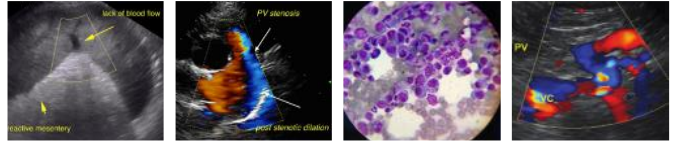
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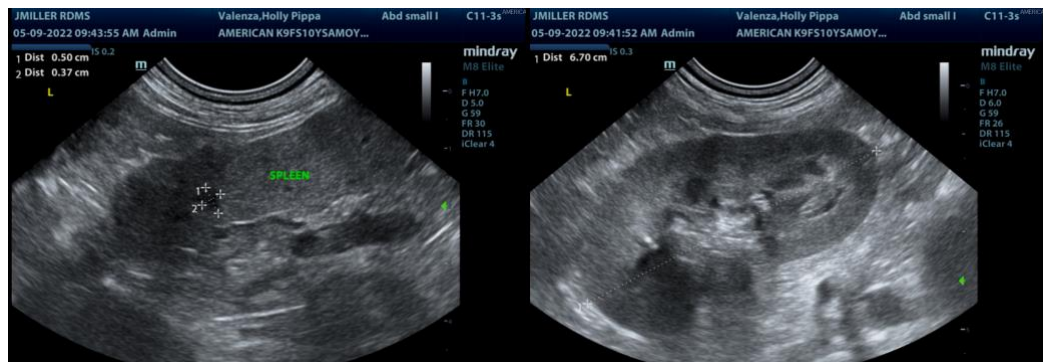
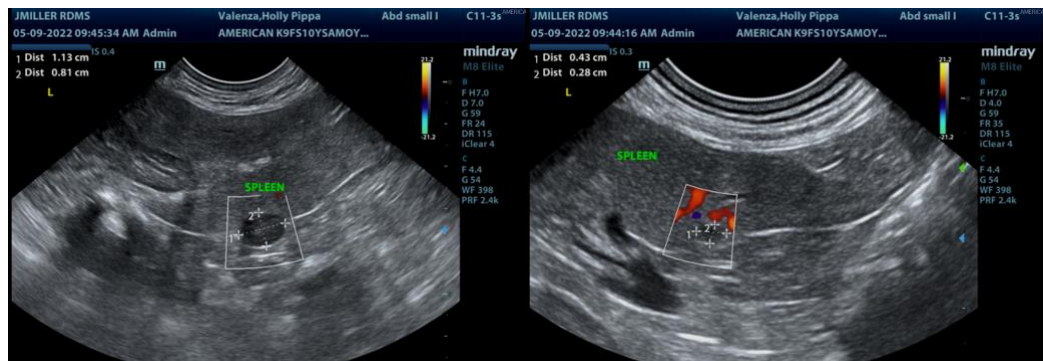
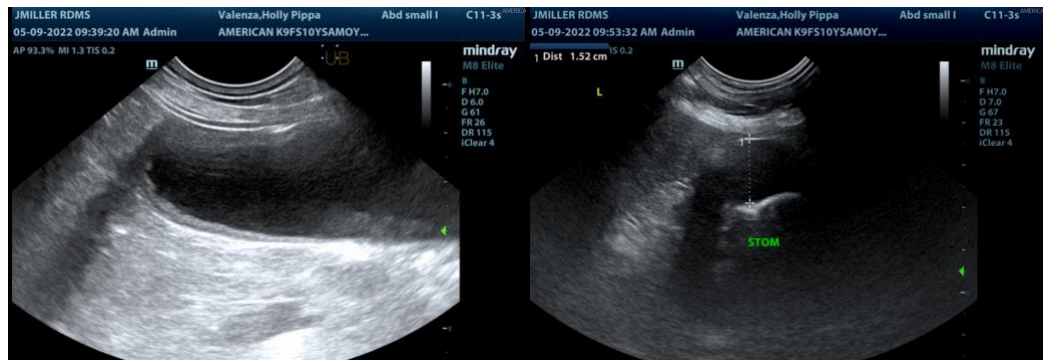
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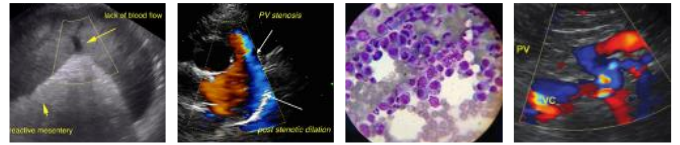
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



PATIENT

Holly Pippa Valenza

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.

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

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Spayed Female

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