

## PATIENT PRESENTING CLINICAL SIGNS

Lucy Lipton

## SPECIES

Canine

## BREED

Golden Retriever

## SEX

Spayed female

## AGE

13 years

## WEIGHT

78 lbs

## INTERPRETED BY

Eric Lindquist, DMV,  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Sara Hansen

## HOSPITAL NAME

Creekside VC

## REFERRING VET

Dr. Eggert

## DATE

10/21/22

Invoice  
40243

History: - 09/15/2022 -Annual Exam- Reports of slowing down and dazed RH Lymph Node popliteal mildly enlarged 2 masses -(1) 1 cm, raised, somewhat nodular, black dermal mass on medial aspect of right hind foot x 4 month (2) 0.5 cm , black dermal mass slightly raised located on dorsal aspect of foot x 1 month. - 10/04/2022- Mass removal submission for hisopathology - 10/07/2022 - Seizure - 10/12/2022 Pet has been inappetence and lethargic 10/17/2022 Slightly pot bellied on palpation but no overt organomegaly palpable w/ muscle loss along shoulder and hips.  
Abnormal PE/Chem/CBC/UA Results: 09/15/2022 - Cytology from masses - (see final histopath Report) 1. Right Hind : Sparsely pigmented melancytoma, likely benign 2. Right Front : Peripheral blood; possible hemangioma 09/16/2022 Senior Lab - Mild non-regenerative Anemia, Mild ALP elevation (consistent with last year - suspect cholestasis). Proteinuria - on Enalapril. 10/04/2022 - Histopathology Report for 1. Right forefoot - Fibro-adnexal Hamartoma 2. Right hindfoot - Dermal Melanocytoma, benign Current Medications Enalapril 30mg BID, Mirtazapine 15mg SID, Cerania 80mg SID , Vitamin B12

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction and appeared normal. 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 was 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 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. The left kidney measured 6.72 cm. The right kidney measured 7.69 cm with a cortical infarct at the dorsal cortex of the right kidney.

### Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 3.16 x 0.7 cm at the caudal pole and 1.08 cm at the cranial pole. The left adrenal gland measured 3.74 x 0.65 cm at the caudal pole and 0.51 cm at the cranial pole.

### Spleen

The **spleen** was mildly enlarged with subtle, heterogenous parenchymal changes. Scalloping contour was noted. Occasional hypoechoic nodule was noted.



## PATIENT *Liver*

Lucy Lipton The **liver** revealed multi-focal, expansive, mixed echogenic micronodular and macronodular changes with hypoechoic smaller nodules. This is strongly suggestive for neoplastic process. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal.

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## 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.

## Pancreas

## AGE

13 years

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.

## WEIGHT

78 lbs

## ULTRASONOGRAPHIC FINDINGS

Splenohepatomegaly with nodular changes.

## INTERPRETED BY

Eric Lindquist, DMV,  
DABVP, Cert. IVUSS

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the spleen and liver is warranted. Undifferentiated, mixed hypoechoic mass was noted in the cranial abdomen. This appears to be deriving from the cranial pole of the spleen. Given the nodular changes in the liver splenic neoplasia with metastatic disease to the liver is suspected. Exploratory surgery is necessary for further definition.

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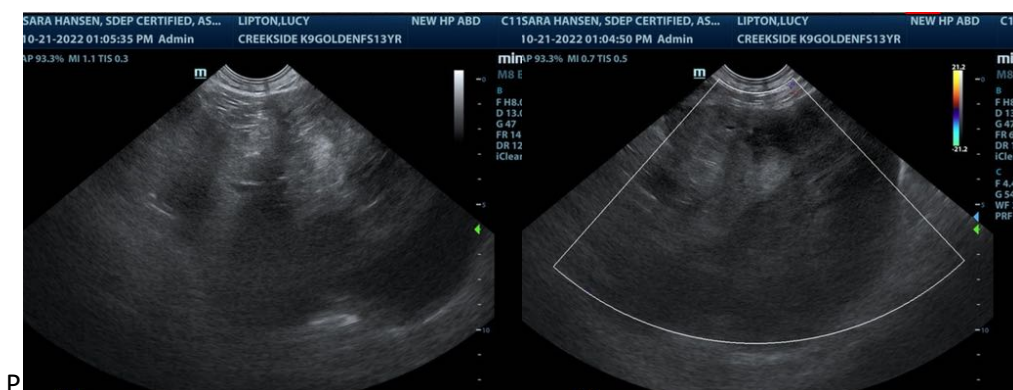
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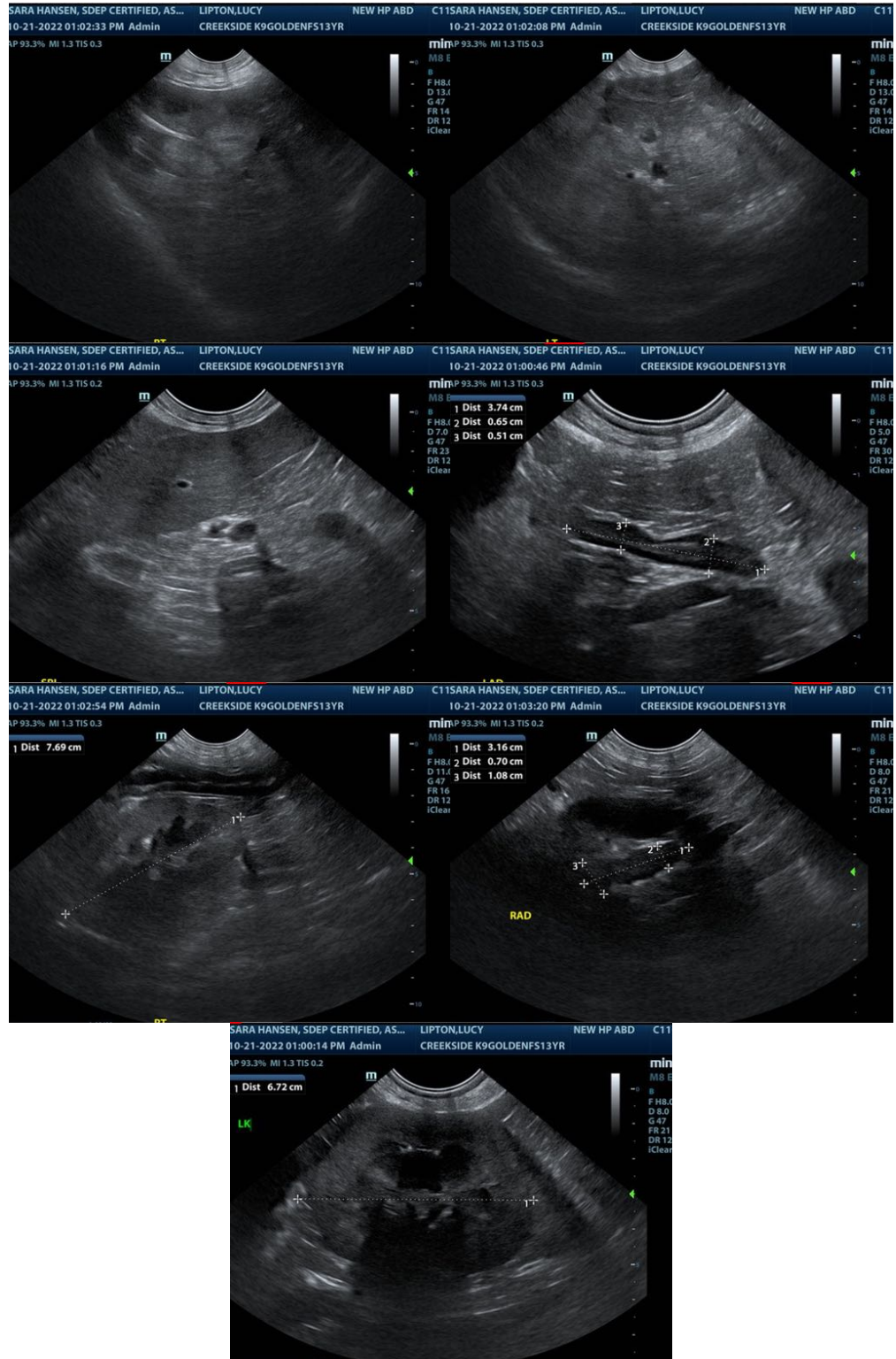
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**PATIENT**

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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.

**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**

Golden Retriever

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS

CEO of SonoPath.com

Eric.Lindquist@SonoPath.com

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