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|-----------------------------|---|
| PATIENT | PRESENTING CLINICAL SIGNS |
| Charlie Arias | History: increased ALP doing well at home |
| SPECIES | ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN |
| Canine | Urinary System |
| BREED | Urinary bladder is adequately 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. |
| Golden Retriever | The prostate is normal for a neutered dog. |
| SEX | Left kidney is normal is size (6.68 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. |
| Neutered male | Right kidney is normal is size (5.54 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. |
| AGE | |
| 3 years | |
| WEIGHT | Adrenal Glands |
| 67 lbs | The regions of the adrenal glands are evaluated and revealed no evidence of pathology. The caudal poles of both adrenal glands were visualized and normal. The left adrenal gland measured 0.55 cm and the right adrenal gland measured 0.53 cm. |
| INTERPRETED BY | Spleen |
| Beth Johnson, DVM DACVIM | 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. |
| IMAGING PERFORMED BY | |
| Jenn | |
| HOSPITAL NAME | Liver |
| Rockaway AH | Liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion. |
| REFERRING VET | |
| Dr. Maniar | Gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation. |
| INVOICE | Gastrointestinal |
| 31284 | The visible stomach wall is normal in thickness and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent. |
| DATE | |
| 6/28/22 | |



PATIENT

Charlie Arias

The visible small intestines are normal in wall thickness and layering. 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.

BREED

Golden Retriever

Pancreas

The observed pancreas appears appropriately isoechoic to surrounding omental fat. Visible capsule is smooth and normal in contour. Visible pancreatic parenchyma is homogenous and unremarkable. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

SEX

Neutered male

Free Abdomen

There is no evidence of peritoneal effusion or apparent lymphadenopathy noted in these images.

AGE

3 years

ULTRASONOGRAPHIC FINDINGS

WEIGHT

67 lbs

Unremarkable abdomen without apparent cause for the patient's reported increased ALKP.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

Beth Johnson, DVM
DACVIM

Differentials are vast and non-specific. Differentials include, but are not limited to, benign nodular hyperplasia which occurs in 70% of older dogs and often does not result in an abnormal ultrasound, reactive or idiopathic/vacuolar hepatopathy, cholestasis and/or hyperadrenocorticism as well as many chronic non-hepatobiliary diseases such as chronic infections/inflammation from dental disease, IBD, neoplasia, hyperlipidemia, hypothyroidism, chronic pancreatitis, chronic stress, etc.

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Rockaway AH

REFERRING VET

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1. There is no ultrasonographic evidence of cholestasis. Adrenocortical testing such as a low dose dexamethasone suppression test could be considered if clinical signs of hyperadrenocorticism are present. Ursodiol could be considered if gallbladder sludge is noted. A fine needle aspirate of the liver could be considered if patient's coagulation status is appropriate. Otherwise, recommendations include addressing any other concurrent disease and monitoring. If values are progressive, recheck imaging is recommended.
2. Specifically for this patient given his young age the top differential is a reactive or idiopathic vacuolar hepatopathy or potentially chronic cholangitis without ultrasonographic changes. Therefore, therapeutic recommendations could include empirical broad-spectrum antibiotics and a course of Ursodiol or other hepatic nutraceuticals with monitoring of the ALKP for improvement.
3. A quantitative PLI can be considered for further evaluation of potential chronic pancreatitis which can occur with a normal ultrasound.
4. Due to the patient's young age close evaluation for potential bone lesions is also warranted.



PATIENT

Charlie Arias

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Canine

BREED

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Neutered male

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67 lbs

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DACVIM

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

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REFERRING VET

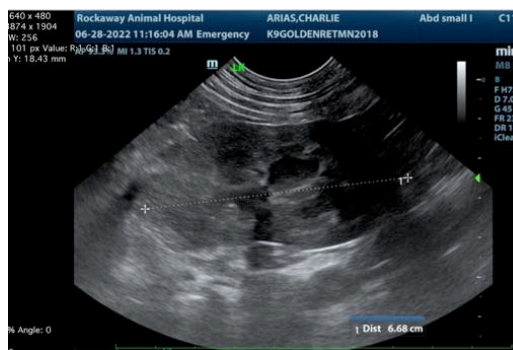
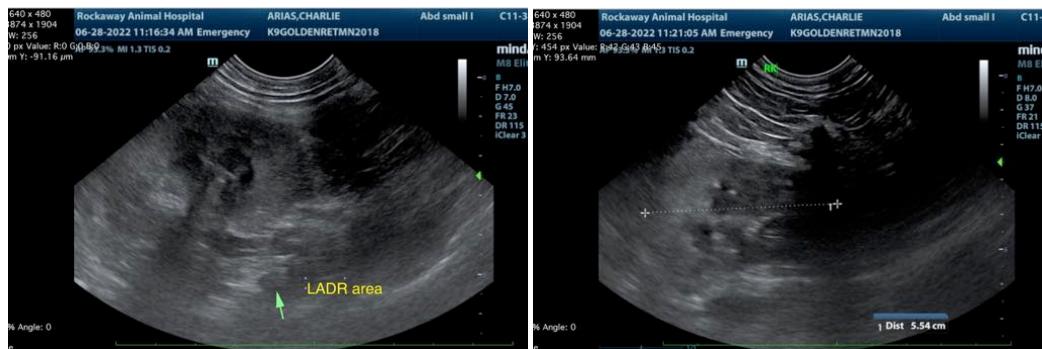
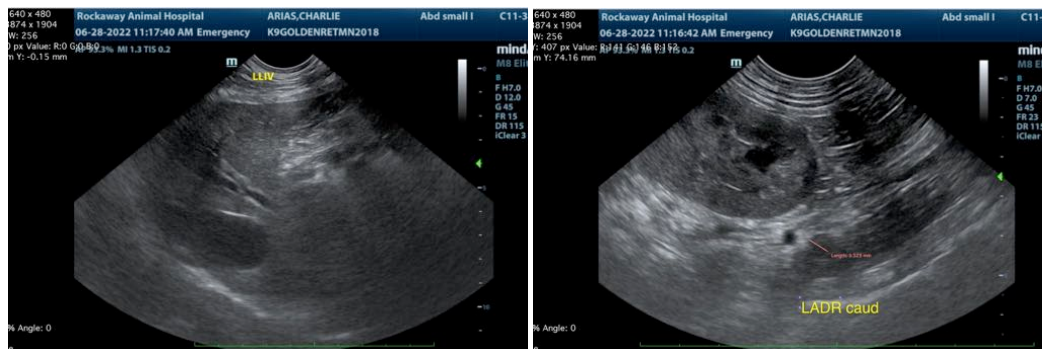
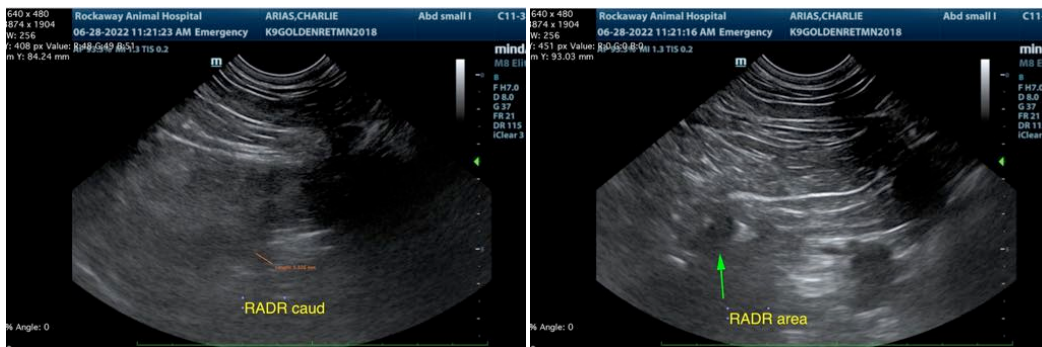
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



PATIENT

can be of any further assistance please contact me.

Charlie Arias

Beth Johnson, DVM DACVIM

SPECIES

Beth.Johnson@SonoPath.com

Canine

BREED

Golden Retriever

SEX

Neutered male

AGE

3 years

WEIGHT

67 lbs

INTERPRETED BY

Beth Johnson, DVM
DACVIM

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