



PATIENT PRESENTING CLINICAL SIGNS

Choco Koo, Anna Clinically normal patient. Elevated ALP and ALT on bloodwork. Initial u/s showed dilated common bile duct but liver enzymes improved so continued to monitor. ACTH stim normal. Bile acids ~4 mths ago were mildly elevated, recently repeated and now markedly elevated. Liver enzymes have worsened also.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Elevated liver values (ALP > ALT) - worsened from previous
 Markedly elevated bile acids - suspect true liver dysfunction, less likely secondary to mild hyperbilirubinemia
 Mild hyperbilirubinemia Full gallbladder and dilated common bile duct with questionable complex/cystic area in the distal common bile duct, however no intra hepatic duct dilation - noted on previous ultrasound >6mths ago
 Heterogenous liver with small echogenic foci - noted on previous ultrasound
 Thin haircoat

BREED

Yorkshire Terrier

COMPUTED TOMOGRAPHY OF THE THORAX AND ABDOMEN

SEX

FS

A pre- and post-contrast CT study of the thorax and abdomen in a bone, lung and soft tissue reconstruction is provided for review.

COMPUTED TOMOGRAPHIC FINDINGS

Thorax

AGE

11 Years, 9 Months, 14 Days

The bony and surrounding soft tissue structures are within normal limits.

The sternal, cranial mediastinal and tracheobronchial lymph nodes are small elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation and contrast enhancement pattern is uniform and considered within normal limits.

INTERPRETED BY

The cardiovascular structures including the pulmonary vasculature are within normal limits.

Sebastian Schaub, DVM
 Dr. med. vet. DipECVDI

The bronchial tree presents with regular branching and tapers uniformly towards the periphery as expected, the bronchial walls are thin and smooth. The bronchus-to-artery ratio is within normal limits.

HOSPITAL NAME

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The lung parenchyma presents the expected architecture and attenuation behavior.

The esophagus is mild to moderately distended by gas.

Abdomen

The serosal fat presents normal attenuation behavior. There is no evidence of peritoneal effusion or peritonitis.

REFERRING VET

Dr. Melanie Dickinson

Both kidneys present within normal limits for size, shape and organ architecture. A very small amount of mineral attenuating material is associated with the renal pelvis bilaterally. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted.

INVOICE

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The adrenal glands are within normal limits for size, shape and organ architecture.

The spleen presents with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.

DATE

3-27-23

The hepatic volume is generalized mildly increased and the liver is protruding caudally beyond the costal arch. The caudoventral hepatic margins are rounded. The hepatic parenchyma is uniform soft tissue attenuating and contrast enhancing. The intrahepatic biliary tree is generalized dilated. The common bile duct is dilated, measuring 9.8 mm in diameter. The distal third of the common bile duct contains soft tissue material without overt contrast enhancement, occupying the entire lumen. The



PATIENT segment of the common bile duct distal to the soft tissue material presents a small diameter, measuring 3 mm and can be followed up to the major duodenal papilla.

Choco Koo, Anna

The gallbladder contains a very small amount of sedimented granular mineral attenuating material.

SPECIES The pancreas is evenly contoured, the pancreatic parenchyma is homogeneous and presents uniform contrast enhancement.

Canine The position, delineation, wall and content of the gastrointestinal tract are considered within normal limits throughout.

BREED The lumbosacral intervertebral disc is bulging into the vertebral canal, occupying approximately 15% of the cross-sectional area of the vertebral canal at the same level.

Yorkshire Terrier

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Generalized dilation of the biliary tree – intra- and extrahepatic biliary vessels
- Segmental mechanical obstruction common bile duct
- Mild biliary sludge in the gallbladder
- Mild hepatomegaly
- Mild nephrolithiasis without signs of mechanical obstruction
- Mild intervertebral disc protrusion lumbosacral junction without compression of the cauda equina fibers
- Normal thorax

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AGE

11 Years, 9 Months,
14 Days

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

The material causing mechanical obstruction of the common bile duct does not present with overt contrast enhancement and the odds for inspissated bile are higher than for intraluminal mural mass (e.g. adenoma/carcinoma, polyp). The finding is a plausible explanation for the laboratory changes and surgical management is considered the therapy of choice.

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

HOSPITAL NAME

Potentials for the hepatomegaly include metabolic hepatic disease, hepatitis or diffuse neoplastic infiltration. Ultrasound guided FNA sampling and/or Tru-cut biopsy can be used as minimally invasive methods for further workup.

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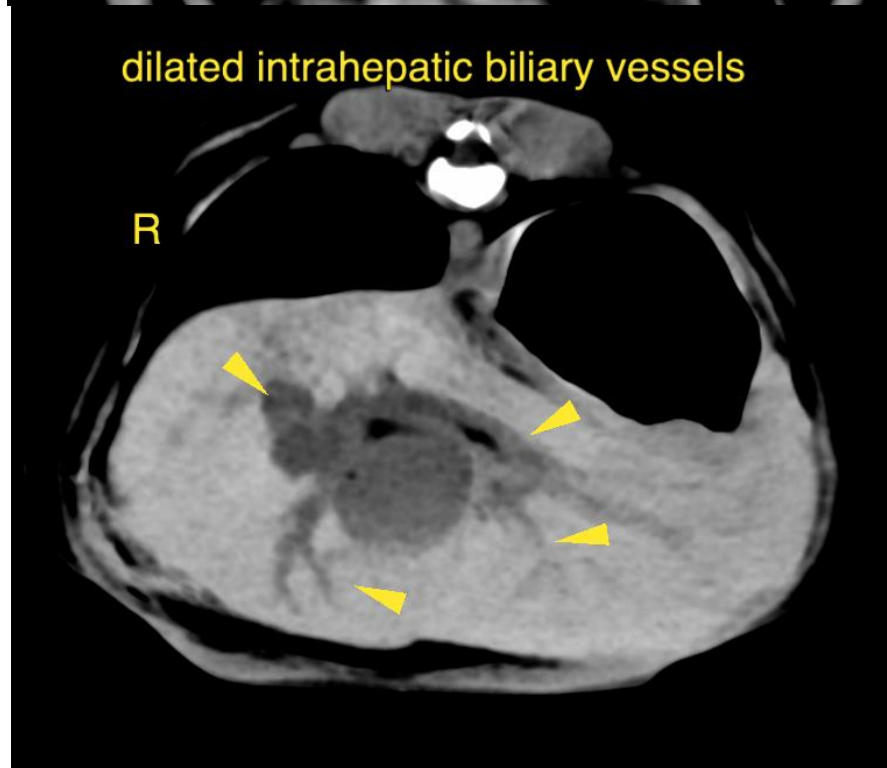
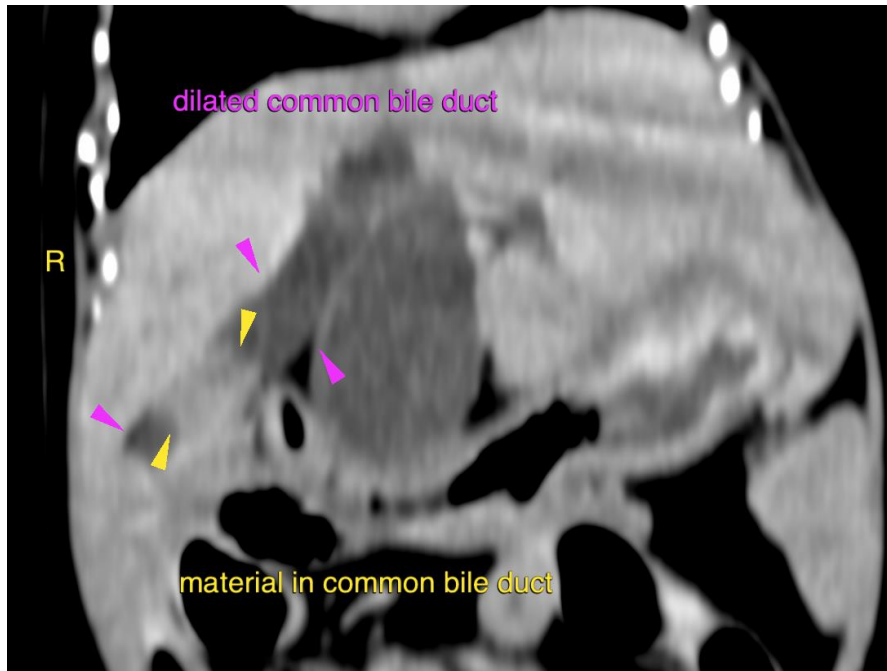
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Yorkshire Terrier

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