



PATIENT PRESENTING CLINICAL SIGNS

Mochi Panetta History: Mochi, a 10 year old Male Neutered Yorkie Mix, was presented to the Toronto Animal Health Partners Surgery Service for evaluation of a hepatic tumor. In May 2022, O noticed weight loss (2 kg). O notes that Mochi is typically mild-tempered so lethargy is difficult to notice. One episode of vomiting, diarrhea and lethargy, bloodwork abnormalities. Normal EDUD; Energetic (1 walk per day, 20-30 minutes; O reduced it due to concerns with mass); No discomfort noted Low-grade mildly regenerative anemia (pcv 34%), thrombocytosis, rubricytosis 7/100, albumin 32 g/L, globulins 49 g/L, bilirubins 4.4 umol/L (< 5.2) ALT 3269 IU/L H 18 - 121 AMYL 2287 IU/L H 337 - 1469 AUS report: The omental fat was diffusely mildly hyperechoic. A small amount of acellular effusion was noted in the abdomen between the liver and the right kidney. A section of the liver extending over *10 cm x 10 cm x 7 cm (cranial-medial aspect of the right side of the liver) was moderately hyperechoic and markedly heterogeneous with a combination of hyperechoic, hypoechoic and cavitated lesions.* One cystic lesion (0.7 x 0.6 cm) was noted at the cranial aspect of the left side of the liver. A circular section of tissue located at the most caudal aspect of the margins of the left lateral liver lobe (2.6 x 2.1 cm) and associated with deformation of the liver margin was focally mildly hyperechoic and mildly to moderately heterogeneous with ill-defined hypoechoic lesions. The remainder of the hepatic parenchyma was mildly heterogeneous with a coarse texture. The pancreas was diffusely mildly enlarged and moderately heterogeneous and the contour of the pancreas was irregular. The pancreatic duct was mildly distended (0.11 cm). The distinction between the caudal aspect of the hepatic mass and the body of the pancreas was ill-defined. A small amount of sediment was noted in the gallbladder, some of it organized into a cluster connected to the lining of the gallbladder wall through short triangular strands. The gastric wall was thicker than normal (0.8 cm). The lining of the duodenal mucosa was irregular. A small amount amount of fluid was retained in the duodenal lumen. A cluster of mildly heterogeneous and mildly hypoechoic lymph nodes was noted along the aorta adjacent to the caudal aspect of the hepatic mass (largest 1.3 cm x 0.6 cm). The left and right kidneys measured 5.3 and 5.5 cm longitudinally, respectively. The contour of the kidneys was mildly to moderately irregular. The renal cortices were moderately hyperechoic and heterogeneous with irregularly-distributed specs of intense echogenicity and cortical cysts (largest 0.3 cm, left kidney). The inner architecture of the right kidney was mildly distorted. The lining of the mucosa of the urinary bladder was mildly thick and irregular, however the bladder was not distended enough to be evaluated probably. The medial iliac lymph nodes were more hypoechoic than normal (left 1.8 x 0.5 cm, right 1.7 x 0.5 cm). No significant abnormalities were noted in association with the spleen, with the adrenal glands (left 0.77 cm, right 0.70 cm in width), with the common bile duct (distal aspect 0.2 cm in diameter) and with the prostate (0.89 cm in width). Mochi has had a previous history of: - None Mochi current medications: - Yunnan baiyao

SPECIES Canine

BREED Yorkie Mix

SEX Neutered Male

AGE 10 Years

INTERPRETED BY Sebastian Schaub, DVM Dr. med. vet. DipECVDI

HOSPITAL NAME Animal Health Partners

REFERRING VET Dr. Lea Mehrkens

COMPUTED TOMOGRAPHIC STUDY OF THE THORAX AND ABDOMEN

INVOICE 15890 A pre- and post-contrast CT study of the thorax and abdomen in a bone, lung and soft tissue reconstruction are provided for review.

COMPUTED TOMOGRAPHIC FINDINGS

DATE

6/3/22



PATIENT Thorax

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

SPECIES

Canine

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.

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

BREED

Yorkie Mix

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.

The lung parenchyma presents the expected architecture and attenuation behavior. Focal punctuate mineralization of the parenchyma of the right cranial lung lobe is visible.

SEX

Neutered Male

Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.

AGE

10 Years

Abdomen

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

INTERPRETED BY

Sebastian Schaub,
DVM Dr. med. vet.
DipECVDI

Both kidneys present within normal limits for size, shape and organ architecture. After contrast administration the renal cortex of both kidneys presents small (<3 mm) roundish parenchymal filling defects.

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

HOSPITAL NAME

Animal Health
Partners

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

Originating from the right medial liver lobe, an irregular spherical, heterogeneous contrast enhancing – sparing multiple fluid attenuating, variable sized areas – mass is seen, measuring 7.4 x 8.6 x 8.0 cm in size. The gallbladder is deviated to the left and caudally by the mass effect. In the ventrolateral aspect of the left lateral liver lobe, a well-defined parenchymal filling defect, measuring 9 mm in size is present.

REFERRING VET

Dr. Lea Mehrkens

The hepatic lymph nodes and a splenic lymph node are moderately enlarged and present a heterogeneous contrast enhancement pattern; the short-to-long-axis ratio is increased and equals 0.5.

INVOICE

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

DATE

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

Mochi Panetta

The anal sac are not appreciated.

SPECIES The bony and surrounding soft tissue structures reveal no abnormalities.

Canine

COMPUTED TOMOGRAPHIC DIAGNOSIS

BREED

Yorkie Mix

- Hepatic soft tissue mass with regions of cavitation right medial liver lobe
- Lymphadenopathy hepatic and splenic lymph nodes
- Solitary hepatic cyst left lateral liver lobe
- Renal cortical cysts
- No evidence of pulmonary metastatic disease

SEX INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Neutered Male

The CT study is fitting the history of primary hepatic neoplasia, originating from the right medial liver lobe. Differentials include hepatocellular carcinoma, hemangiosarcoma, cholangiocellular carcinoma, other. The mass is in close contact with the portal vein, common bile duct and the caudal vena cava dorsomedially, final decision making if complete surgical resection is possible will warrant diagnostic laparotomy.

AGE

10 Years

The odds for metastatic spread to the regional lymph nodes are high. Ultrasound guided FNA sampling can be used as minimally invasive diagnostic test, prior to surgical intervention.

INTERPRETED BY

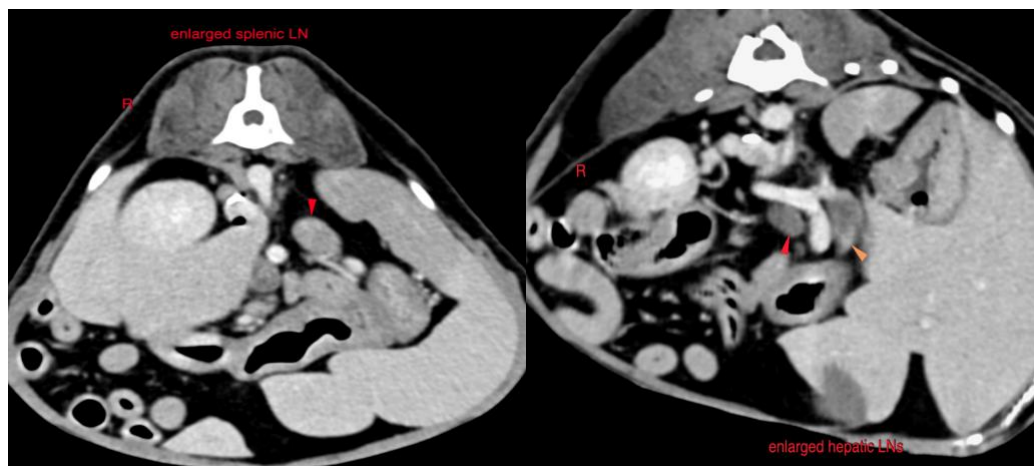
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PATIENT

Mochi Panetta

SPECIES

Canine

BREED

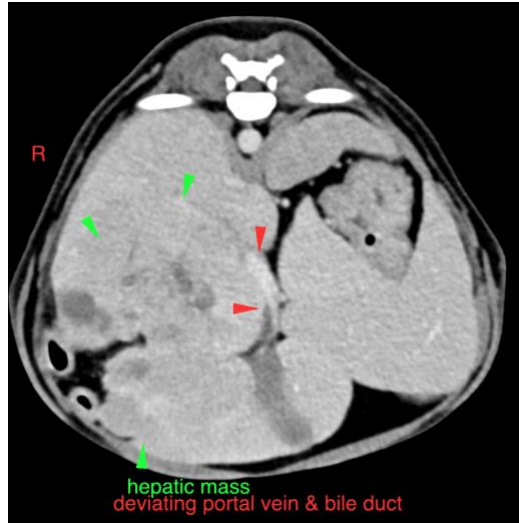
Yorkie Mix

SEX

Neutered Male

AGE

10 Years



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 can be of any further assistance please contact me.

INTERPRETED BY

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