



**PATIENT PRESENTING CLINICAL SIGNS**

Joyce Wong Hepatic isoechoic mass, diffuse hepatopathy, hepatic enzymopathy (ALT = ALP): r/o neoplasia such as hepatocellular carcinoma vs benign (adenoma) Splenic mottling with hypoechoic mass: r/o neoplasia(hemangiosarcoma, histiocytic sarcoma) vs benign (hematoma vs lymphoid hyperplasia vs myelolipoma) Gallbladder sludge Bilateral chronic nephropathy - incidental finding Hyperglobulinemia Thrombocytosis - likely patient variant Historical dental disease

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Canine

**COMPUTED TOMOGRAPHY OF THE THORAX AND ABDOMEN**

**BREED**

Bichon X

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**

Thorax

**SEX**

FS

Both shoulder joints present mild osteophyte new bone formation. In the subcutaneous tissue and the right cranioventral thoracic wall, a well-defined, ovoid shaped, lipoma is seen, measuring up to 6.6 cm in diameter. A second lipoma is seen along the left ventrolateral thoracic wall, measuring 4.7 cm in diameter.

**AGE**

12 Years

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**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

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

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.

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The lung parenchyma presents the expected architecture and attenuation behavior.

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

Abdomen

**REFERRING VET**

Dr. Shannon  
Westgarth

The serosal fat presents normal attenuation behavior. A very small amount of fluid attenuating material is seen along the caudal extremity of the spleen.

Both kidneys present mild irregular margins. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted.

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

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The spleen presents with normal shape and uniformly attenuating parenchyma, post contrast administration, the splenic parenchyma has a mild heterogeneous contrast enhancement pattern.

**DATE**

10-11-22

Originating from the left lateral liver lobe, a mild heterogeneous soft tissue attenuating and heterogeneous contrast enhancing irregular roundish mass is visible, measuring 10.0 x 8.8 x 11.5 cm in size. The left divisional hepatic mass is protruding caudally into the peritoneal cavity. The gastric axis is tilted caudally and the pylorus is deviated dorsally by the mass effect. The



**PATIENT**

remainder of the liver present smooth margins with a homogeneous soft tissue attenuating and contrast enhancing parenchyma.

Joyce Wong

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

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

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Both coxofemoral joints present moderate to marked osteophyte new bone formation. The acetabular groove bilaterally is shallow, and the center of the femoral heads is lateral to the dorsal acetabular rim. The periarticular bones of both stifle joints present mild to moderate osteophyte new bone formation, L>R.

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**COMPUTED TOMOGRAPHIC DIAGNOSIS**

**SEX**

- Left divisional hepatic soft tissue mass, suspect originating from the left lateral liver lobe
- Mild heterogeneous contrast enhancement pattern spleen
- Mild chronic nephropathy
- Multiple lipomas along the thoracic wall
- Advanced Degenerative osteoarthritis coxofemoral joints bilaterally
- Degenerative osteoarthritis stifle joints bilaterally, L>R

FS

**AGE**

12 Years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

The odds for primary hepatic neoplasia are high, such as hepatocellular adenoma or carcinoma. FNA sampling of the hepatic mass can be used as advanced minimally invasive diagnostic test. Complete surgical excision of the mass by lobectomy of the affected liver lobe appears feasible.

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

The mild heterogeneous contrast enhancement pattern of the spleen is not specific, and the top differential is nodular hyperplasia or extramedullary hematopoiesis. Ultrasound guided FNA sampling of the spleen can be used to rule out diffuse malignant infiltration. No splenic mass can be identified in the current CT study.

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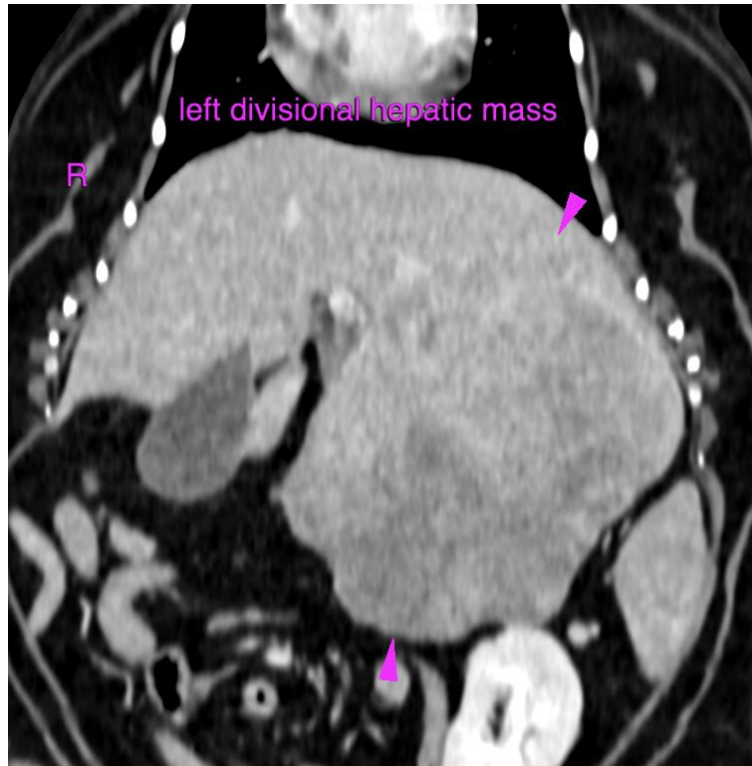
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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Bichon X

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.

**Sebastian Schaub**, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI  
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