



PATIENT

Aurora Mangahas

PRESENTING CLINICAL SIGNS

hypoglycemia and concerns of insulinoma vs other insulin-producing mass effect. feeding every 3 hours. She is having some constipation, but no vomiting. Less energy than normal.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Cytology from liver mass: COMPATIBLE WITH HEPATOCELLULAR HYPERPLASIA / POSSIBLE HEPATOCELLULAR CARCINOMA Low TCO₂, Low AnGap

BREED

Hound Mix

COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN

A high resolution pre- and post-contrast CT study of the skull and abdomen and a post-contrast CT study of the thorax are provided for review.

COMPUTED TOMOGRAPHIC FINDINGS

Skull

SEX

Triadan 406 is absent.

Female Spayed

The nasal cavity presents the expected aerated spaces between thin & even conchae and turbinates with smooth mucosal lining.

AGE

5

Both temporomandibular joints present congruent joint spaces with even subchondral bone surfaces and are considered within normal limits.

Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external ear canals are within normal limits.

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

The brain presents no deviation from normal anatomy and symmetry. The brain parenchyma is homogeneous and within normal limits for attenuation and distribution of contrast enhancement. The ventricular system is non-dilated and symmetric.

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The submandibular and medial retropharyngeal lymph nodes are small and elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation pattern is uniform.

Thorax

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.

REFERRING VET

Rory Applegate

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.

INVOICE

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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.

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Abdomen



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

Both kidneys present within normal limits for size, shape and organ architecture. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted.

SPECIES

Canine

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.

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Hound Mix

Originating from the caudoventral margin of the right medial liver lobe, an irregular ovoid shaped, soft tissue attenuating and mild irregular contrast enhancing mass is protruding caudally into the peritoneal cavity. The pylorus of the stomach is deviated dorsally by the mass effect. The hepatic mass is measuring 17.3 x 7.3 x 15.2 cm in size.

SEX

Female Spayed

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

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

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The vertebral endplates L2/L3 present moderate spondylosis formation.

COMPUTED TOMOGRAPHIC DIAGNOSIS

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

- Hepatic soft tissue mass right medial liver lobe
- Absent triadan 406
- Spondylosis deformans L2/L3
- No evidence of pulmonary metastatic disease

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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There is a hepatic mass, highly suggestive for primary hepatic neoplasia such as hepatocellular carcinoma. In hepatocellular carcinoma, hypoglycemia has been described as an uncommon paraneoplastic effect.* Complete surgical excision of the mass appears feasible.

If surgery an option here, consider thorough palpation of the pancreas to rule out islet-cell tumor as cause for the hypoglycemia entirely, as a negative CT study does not rule out insulinoma entirely.

REFERRING VET

Rory Applegate

* Cullen, John M. "Tumors of the liver and gallbladder." *Tumors in domestic animals*(2016): 602-631.

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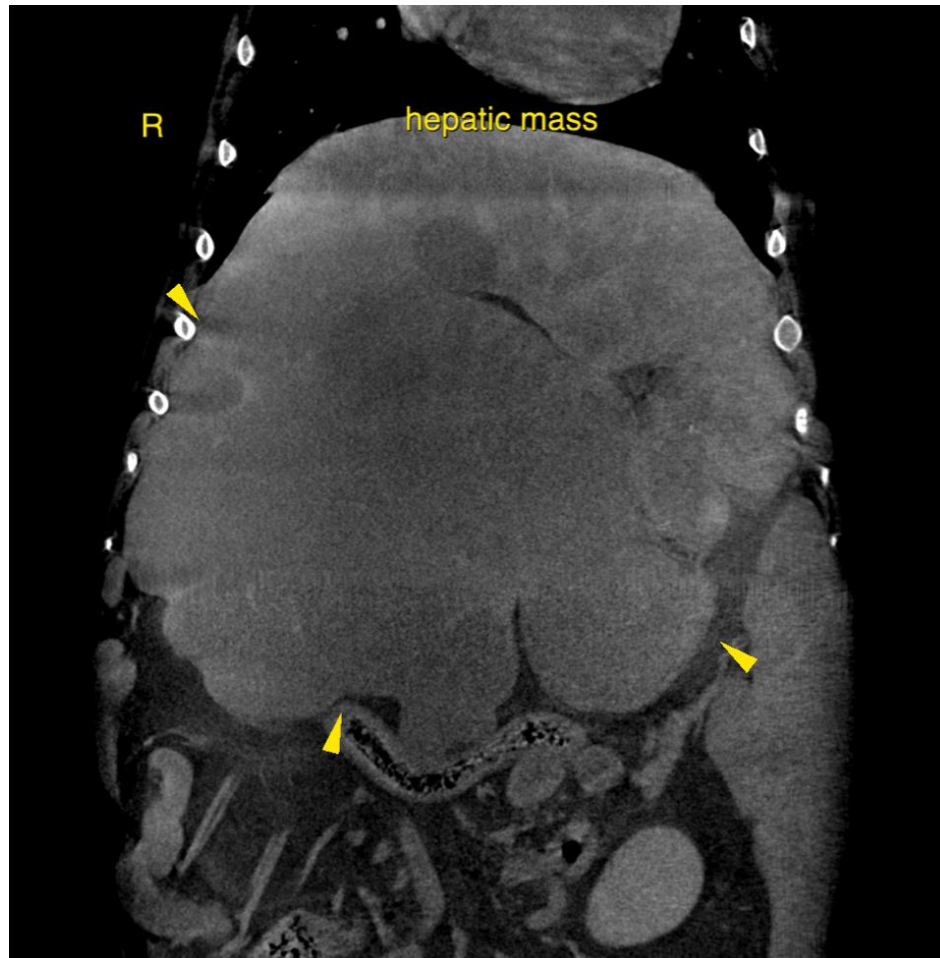
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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