
PATIENT PRESENTING CLINICAL SIGNS

Jena Emerson P is not symptomatic at all, O is a DVM and seen/felt a mass in abdomen

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD, NECK, THORAX & ABDOMEN
SPECIES

Canine

Plain and post-contrast studies were scanned. However, only the post-contrast study is available for review at this time as pre-contrast study was unable to be downloaded due to size.

COMPUTED TOMOGRAPHIC FINDINGS
BREED

Doodle

Abdomen

The abdominal study is right/left flipped on the post-contrast study provided.

SEX

Spayed Female

A large, pedunculated, cavitating and heterogeneously multilobulated mass is emerging from the right division of the liver. The mass measures approximately 15.0 cm in length and 8.0 cm in diameter and causes a moderate mass effect onto the cranial abdominal viscera, especially the stomach, pancreas, gastric outlet, and portal vein, all of which are shifted towards the left of the midline. The mass appears to share perfusion with both the lateral and central divisions of the liver. The remainder of the hepatic parenchyma presents multiple, predominantly hypoenhancing nodules.

AGE

8 Years

One epigastric lymph node is enlarged and rounded with heterogeneous contrast enhancement and measures 2.0 cm in diameter. The portal lymph nodes and remainder of the epigastric lymph nodes are moderately enlarged. One parietal lymph node level with caudal pole of the kidneys and aorta is enlarged at 15.0 mm diameter and rounded with heterogeneous contrast enhancement.

INTERPRETED BY

Nele Eley (Ondreka),
DVM Dr. med. vet.,
DipECVDI

The spleen presents moderate generalized enlargement. Multiple small hyperenhancing nodules are seen within the spleen.

The kidneys, adrenal glands, and pancreas present within age related normal limits.

The urinary bladder presents within normal limits.

HOSPITAL NAME

Animal Emergency
Hospital of Volusia

Thorax

The thoracic study is right/left flipped on the post-contrast study provided.

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

Dr. Carver

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

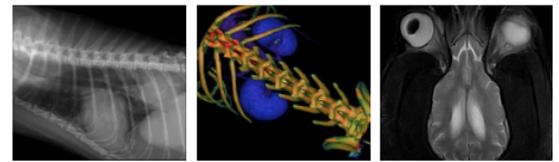
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The lung parenchyma presents the expected architecture and attenuation behavior. A soft tissue attenuating nodule of 3.0 mm diameter is seen within the right caudal lung lobe.

DATE

8/10/21

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



PATIENT *Head/Neck*

Jena Emerson

The triadan #408 is absent. Otherwise, the dentition presents within normal limits.

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

SPECIES

Canine

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

BREED

Doodle

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

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.

SEX

Spayed Female

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

Both lobes of the thyroid gland are seen and present within normal limits.

AGE

8 Years

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Large, pedunculated, cavitating mass of the liver
- Multiple hepatic nodules
- Multifocal abdominal lymphadenomegaly – severe and meeting neoplastic criteria for one epigastric and one paraaortic lymph node (moderate and equivocal between reactive hyperplasia and metastatic disease for the remainder of the lymph nodes)
- Interstitial pulmonary nodule
- Multiple splenic nodules

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INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

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The CT study reveals a large pedunculated, multicavitating liver mass meeting neoplastic criteria. The remainder of the liver is interspersed with multiple hypoattenuating nodules, and lymphadenomegaly meeting neoplastic criteria is seen as well. There also is a single interstitial pulmonary nodule. The combination of the findings is unfortunately highly suggestive for a malignant primary neoplasia of the liver such as hepatocellular carcinoma with multifocal metastatic disease. Secondary neoplasia such as sarcoma cannot be ruled out and is a potential differential diagnosis. Benign hepatic and lymph node disease should be ruled out until proven otherwise.

REFERRING VET

Dr. Carver

The splenic changes are equivocal for benign nodular hyperplasia versus metastatic disease.

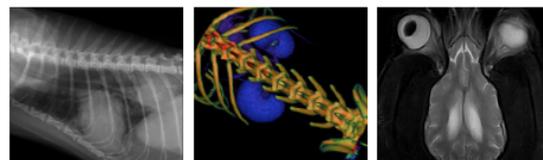
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The single interstitial nodule may very well represent pulmonary metastasis. However, a fibrotic nodule is a potential as well. Final diagnosis will require sampling, which could be considered under ultrasonographic guidance in order to obtain a diagnosis with minimally invasive measures.

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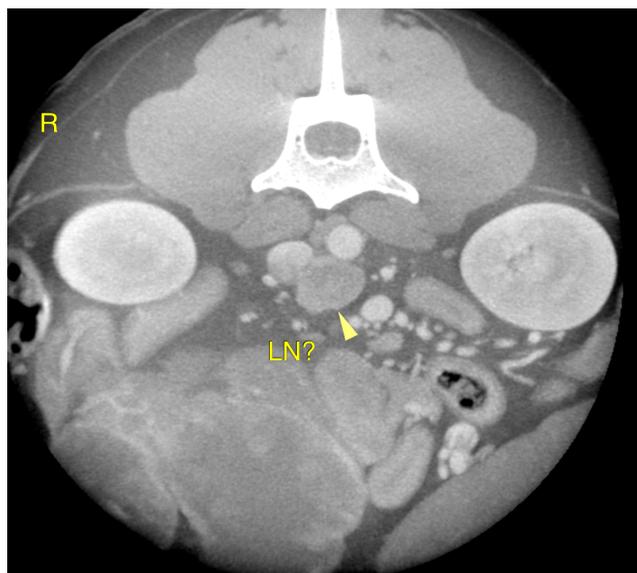
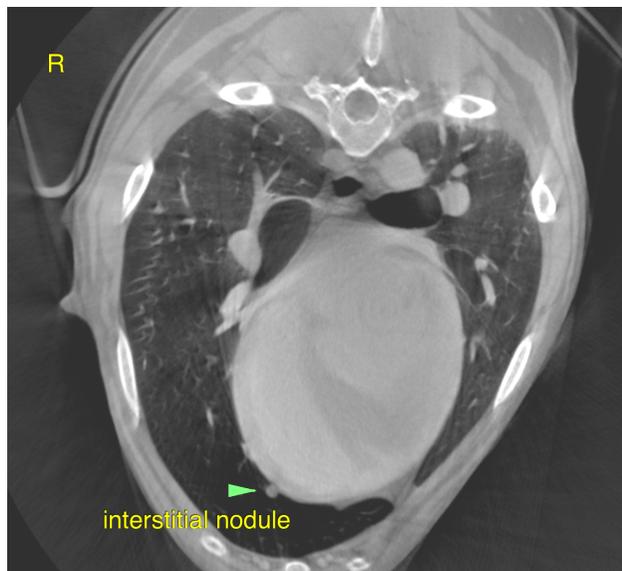
Dr. Carver

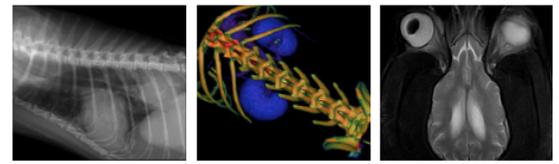
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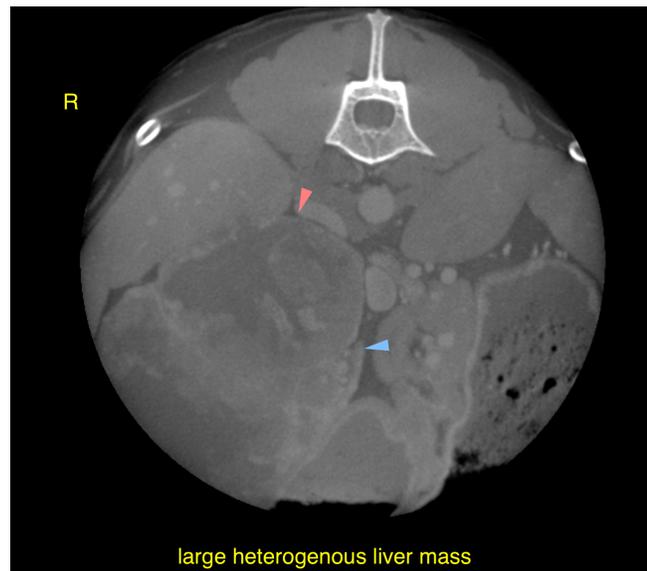
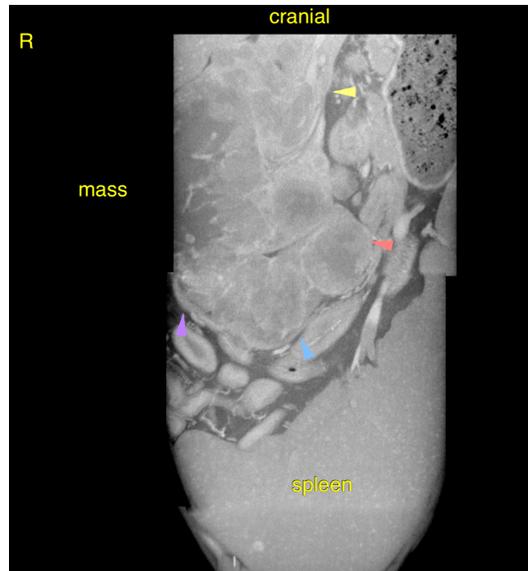
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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