



PATIENT

Austin Shannon

PRESENTING CLINICAL SIGNS

Austin is an 11.5 YO MC Golden Retriever who was transferred by rDVM for CT scan. P has had increasing calcium blood levels for an unknown reason. P does have history of intermittent cardiac arrhythmias and is very sensitive to narcotics. P had CCL ruptures of both hindlimbs previously.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Ca value today 13.4 (range 9-12.2) on chem, ionized Ca on EPOC 177 (range 1.13-1.42)

BREED

Golden Retriever

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

COMPUTED TOMOGRAPHIC FINDINGS

SEX

MC

Skull

The pictured parts of the dentition are complete and unremarkable in all jaw quadrants.

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

AGE

11.5 Years

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 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.

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Thorax

The vertebral endplates T5/T6 present mild spondylosis formation.

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. Lemanski

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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In the craniodorsal aspect of the left caudal lung lobe, a well-defined, soft tissue attenuating nodule, measuring 3 mm in diameter is appreciated. The caudodorsal aspects of the lung present zones with dystelectasis of the lung parenchyma. Multifocal punctuate mineralization of the lung parenchyma is seen.

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



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Abdomen

Multifocal throughout the peritoneal fat, soft tissue attenuating nodules, measuring up to 14 mm in size are appreciated.

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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.

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

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Golden Retriever

At the caudoventral aspect of the caudate process of the caudate liver lobe, a uniform soft tissue attenuating and heterogeneous contrast enhancing ovoidal mass is seen, measuring 4.90 x 3.0 x 3.5 cm in size.

SEX

MC

The left hepatic lymph node is significantly enlarged and rounded, post contrast administration, the left hepatic lymph node is mildly hypoattenuating. A splenic lymph node is prominent.

The spleen is prominent and has a mild undulating surface.

AGE

11.5 Years

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.

INTERPRETED BY

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The lumbosacral intervertebral disc is protruding into the vertebral canal, occupying approximately 30% of the cross-sectional area of the vertebral canal at the same level. The periarticular bones of both coxofemoral joints present mild to moderate osteophyte new bone formation.

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Post contrast administration, in the epaxial musculature bilaterally, contrast enhancing foci are appreciated.

In the subcutaneous fat along the abdominal wall/lumbar spine, multiple well-defined soft tissue attenuating nodules are appreciated.

COMPUTED TOMOGRAPHIC DIAGNOSIS

REFERRING VET

Dr. Lemanski

- Solitary hepatic mass caudate process of the caudate liver lobe
- Lymphadenopathy hepatic and splenic lymph node
- Splenomegaly
- Multiple peritoneal nodular lesions
- Multiple subcutaneous soft tissue nodules
- Solitary pulmonary nodule
- Contrast enhancing muscular lesions
- Degenerative osteoarthritis coxofemoral joints bilaterally
- Normal skull

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The findings are concerning for disseminated neoplastic disease, such as round cell tumor or carcinomatosis – a potential source for hypercalcemia. Recommend complementing workup by FNA sampling of the enlarged hepatic lymph nodes, the hepatic mass and the spleen for further



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definition.

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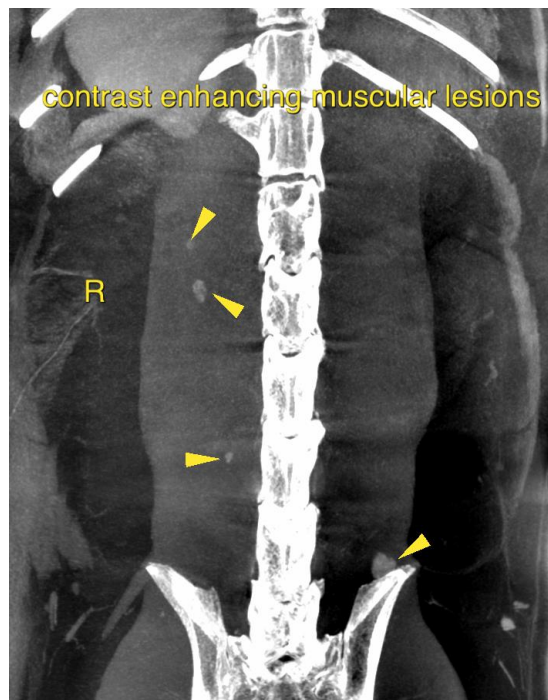
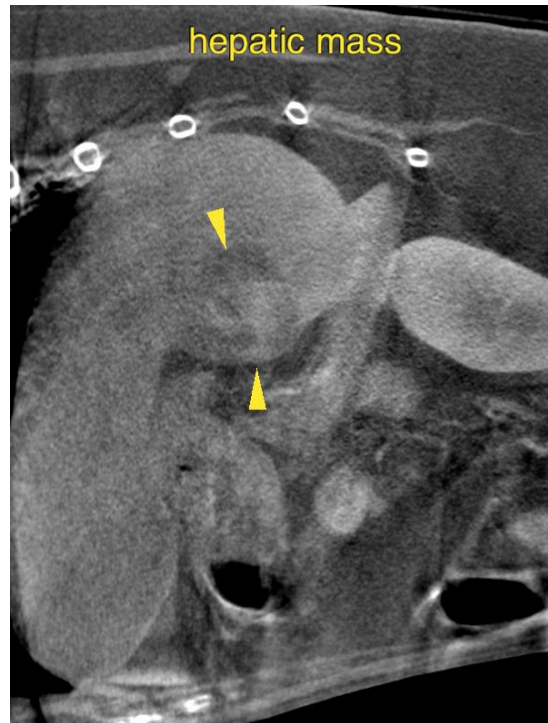
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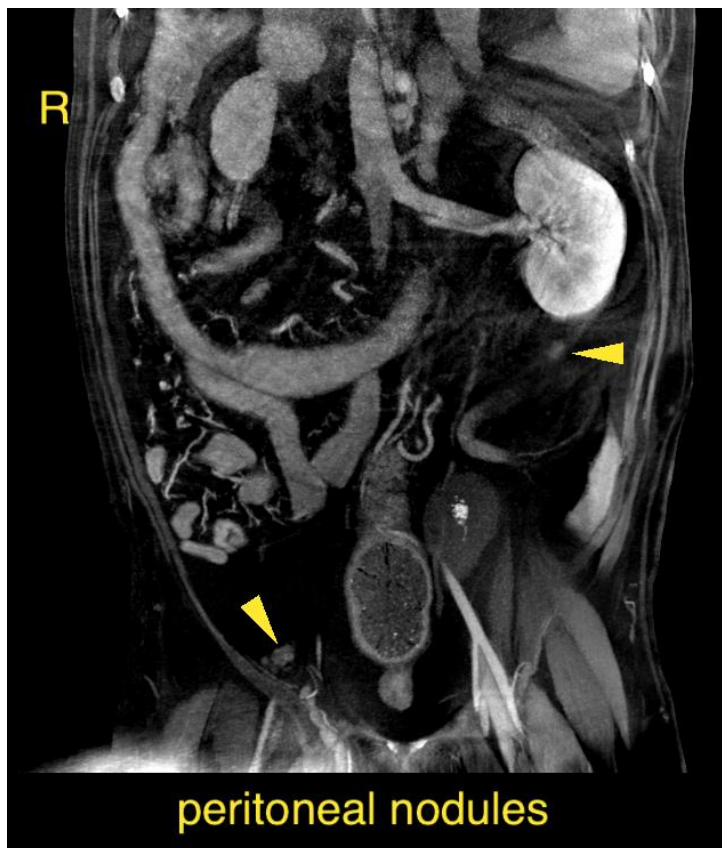
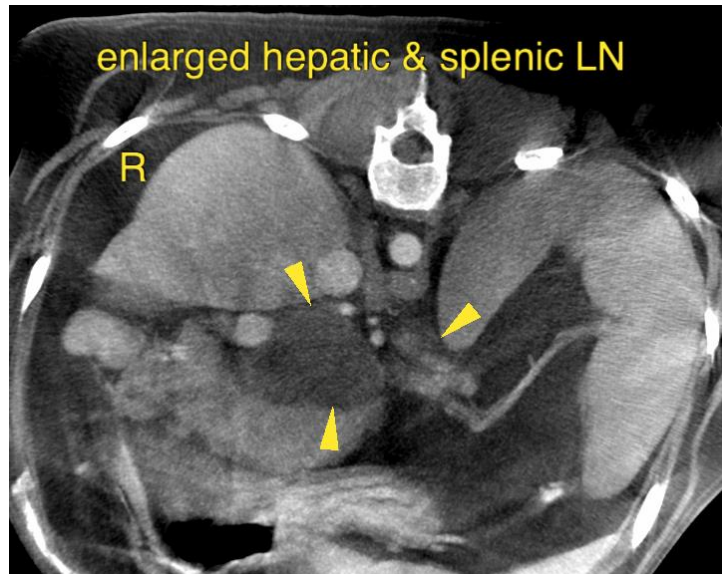
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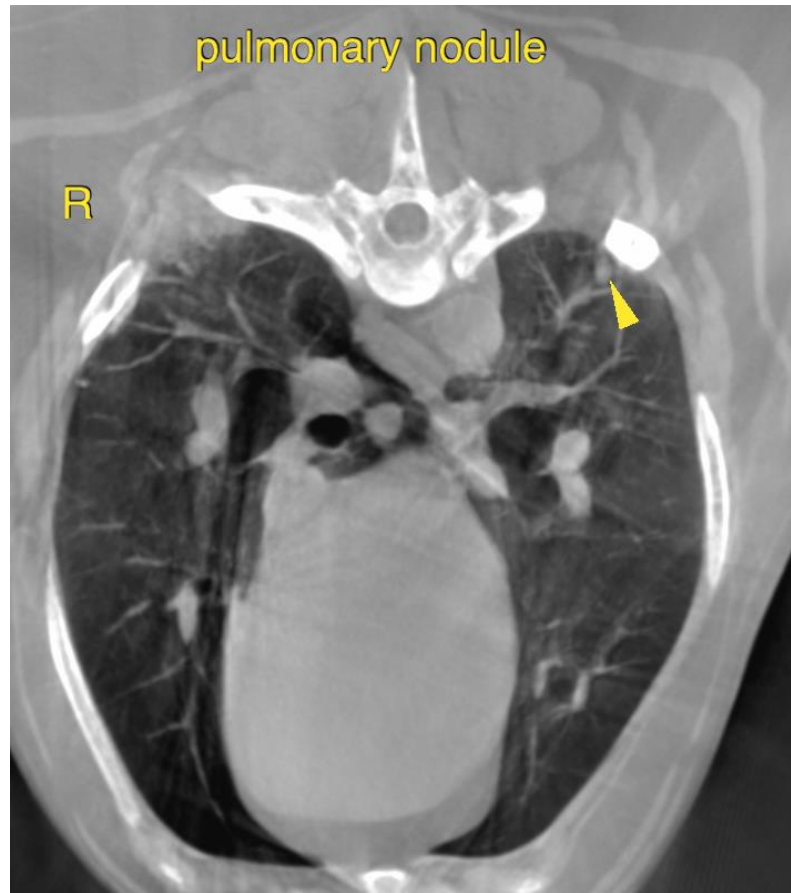
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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