



**PATIENT**

Truman Sullivan

**PRESENTING CLINICAL SIGNS**

Patient presented for a head tilt, has had TECA, Nares and soft pallet surgery.

**COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN**

**SPECIES**

Canine

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

**COMPUTED TOMOGRAPHIC FINDINGS**

**BREED**

French Bulldog

Skull

Multiple teeth are absent.

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

**SEX**

MN

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

**AGE**

8 Years

Both tympanic bullae are filled with soft tissue attenuating material. The osseous lining of the right tympanic bulla is thickened and smooth. The right external ear canal is aerated. The left tympanic bulla presents a moderately increased volume, and a defect is seen in the ventral aspect of the left tympanic bulla with ventral deviation of the osseous margins. Post contrast administration, a peripheral mild contrast enhancing, and central fluid attenuating lesion is extending from the left tympanic bulla cranially along the lateral aspect of the base of the skull up to the level of the left orbit fissure rostrally and along the medial aspect of the left ramus of the mandible ventrally. The left infraorbital fossa presents evidence of pressure erosion and focal perforation of the cranial fossa. The left external ear canal is absent. Advanced lysis of the osseous labyrinth of the left inner ear is appreciated.

**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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Animal Emergency  
Hospital Deland

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

**REFERRING VET**

Diane Johnson, DVM

Thorax

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

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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.

**DATE**

10-28-22

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.



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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

**SPECIES**

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

Canine

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.

**BREED**

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

French Bulldog

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

**SEX**

Protruding from the ventral surface of the caudal extremity of the spleen, a uniform soft tissue attenuating and heterogenous moderate contrast enhancing nodular lesion is seen, measuring 2.4 cm in size.

MN

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

**AGE**

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

8 Years

**INTERPRETED BY**

The intervertebral discs of the lumbar spine are mildly protruding into the vertebral canal, distorting the ventral epidural space at the same level.

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Cavitory mass originating from the left tympanic bulla with retropharyngeal extend along the base of the skull and pressure erosion of the associated osseous structures including the left inner ear
- History of left sided total ear canal ablation
- Splenic nodule
- No evidence of pulmonary metastatic disease

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**REFERRING VET**

The cavitory mass originating from the left tympanic bulla is compatible with cholesteatoma with secondary pressure erosion of the associated osseous structures including the inner ear – the latter is likely explaining the head tilt, that might be irreversible, due to the structural changes. Surgical management is the therapy of choice by ventral bulla osteotomy and trying to remove major parts of the epithelial lining.

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The splenic nodule is suggestive for benign splenic lesion such as nodular hyperplasia, however FNA sampling can be used to check for neoplastic transformation. Splenectomy would be beneficial as benign and malignant lesions protruding from the spleen can rupture and cause hemoabdomen.

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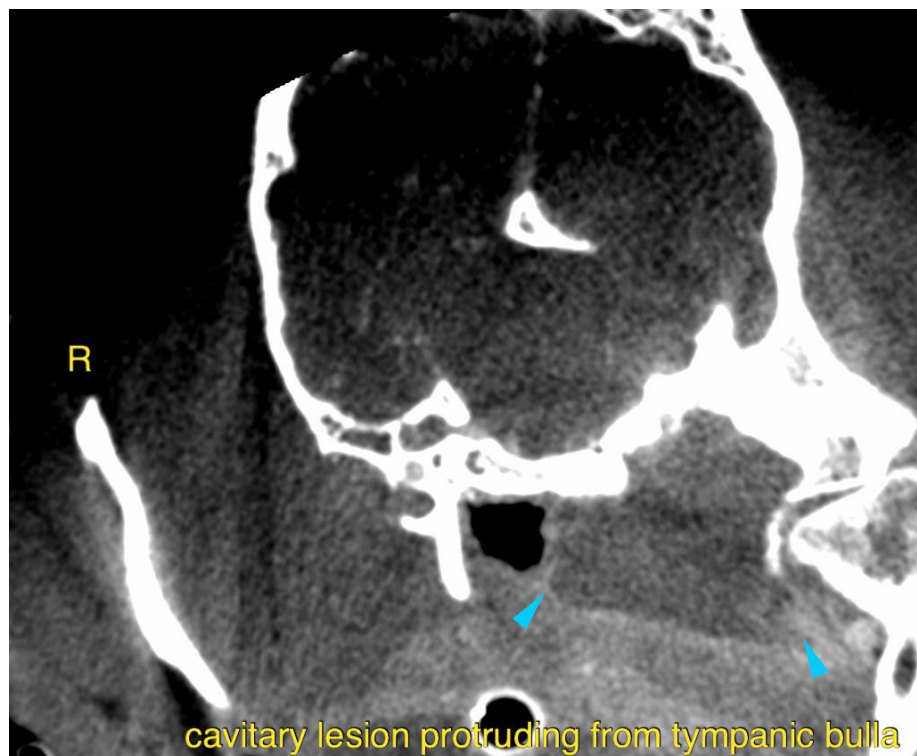
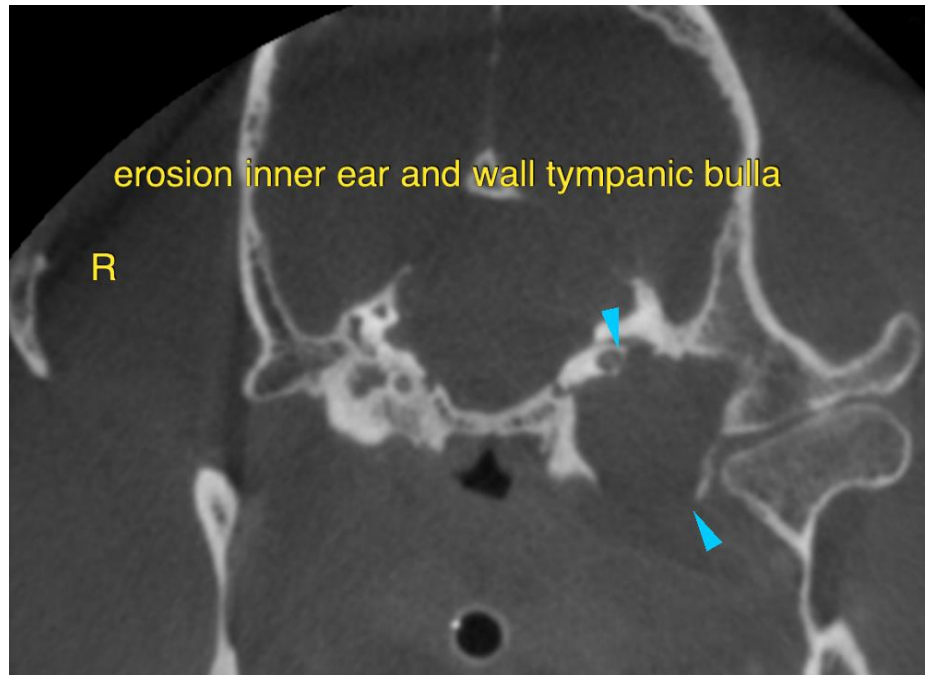
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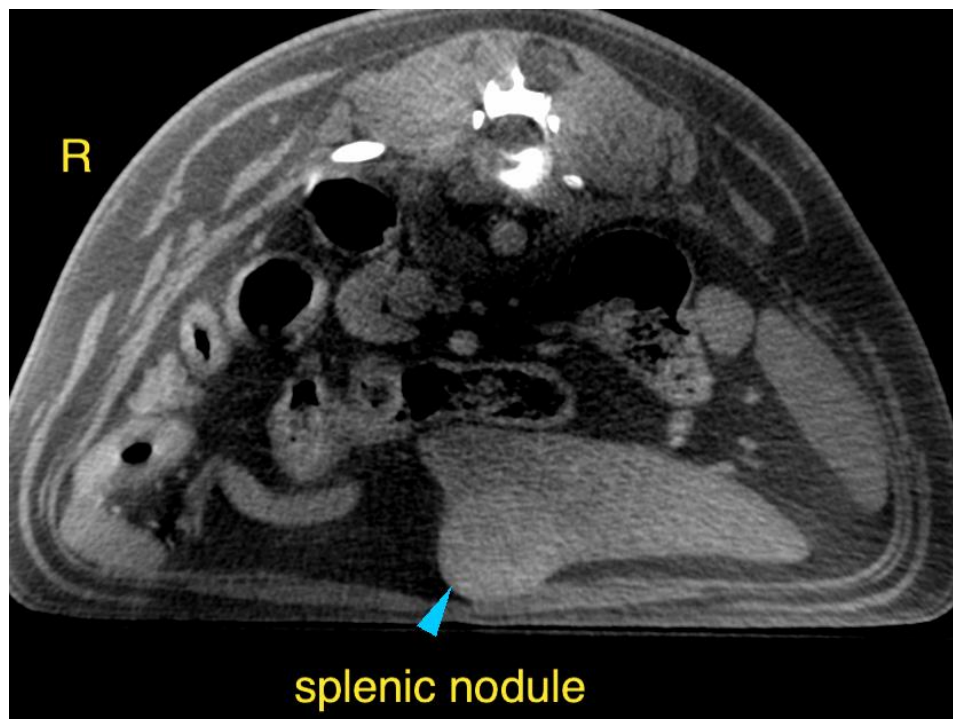
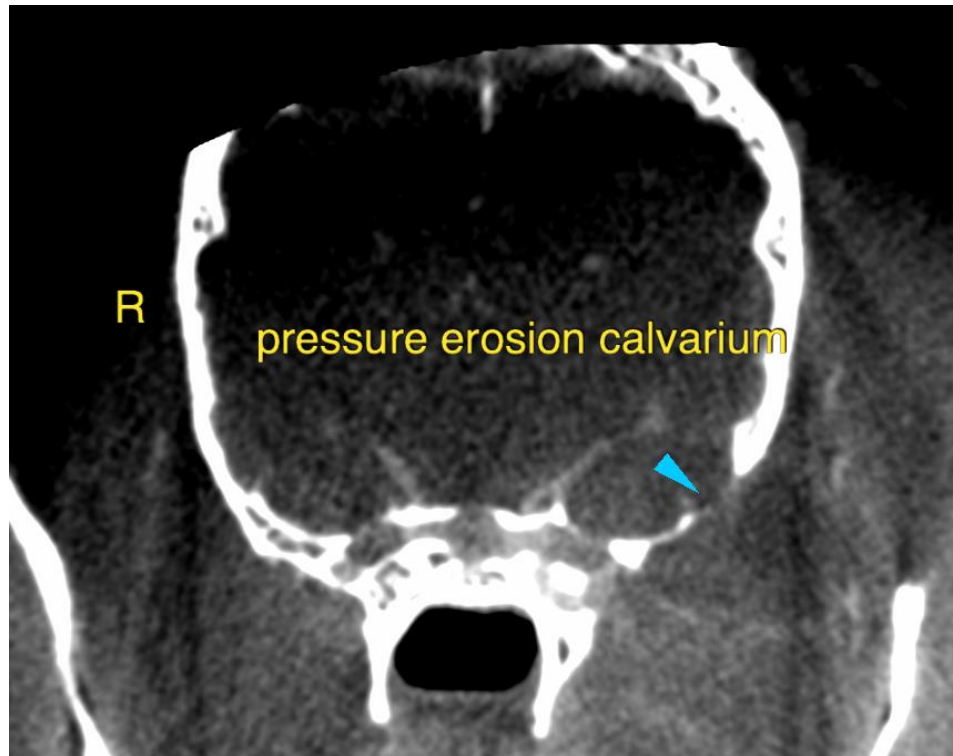
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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