



**PATIENT PRESENTING CLINICAL SIGNS**

Juve Villani Right tonsillar squamous cell carcinoma with metastasis to the right retropharyngeal lymph node -- progression to the right mandibular lymph node. Tonsillar SCC - Surgically removed Nov 22, 2021. Initial treatment with Palladia - started prior to surgery then continued afterwards.

**SPECIES** Progressive dz noted and treatment changed to carboplatin Dec 16. Last dose administered 2 weeks ago, mass has increased in size since then. O interested in pursuing surgery if possible. Hx of degenerative mitral valve dz - ACVIM stage B1  
 Canine Abnormal PE/Chem/CBC/UA Results: CBC: Hct 36%, neutropenia (0.36), lymphopenia (0.31)  
 Chem: Hyperglobulinemia (49), low BUN (1.5), elevated ALP (265)

**BREED COMPUTED TOMOGRAPHY OF THE SKULL & THORAX**

Miniature Pinscher A pre- and post-contrast CT study of the skull and thorax in a bone, lung and soft tissue reconstruction are provided for review.

**SEX COMPUTED TOMOGRAPHIC FINDINGS**

MN Skull

**AGE** In the region of the right tonsil, a large, ill-defined, soft tissue attenuating mass, presenting central granular mineralization is visible. The mass is occupying the complete right lateral retropharyngeal space, extending up into the subcutaneous tissue laterally, up to the level of the larynx caudally and rostrally along the complete width of the right ramus of the mandible. The right lateral retropharyngeal mass is measuring approximately 4.5 x 3.3 x 3.2 cm in size. The associated right ramus of the mandible presents permeative osteolytic lesions and immature periosteal new bone formation. Lysis of the caudal aspect of the right hamulus of the pterygoid bone and the right tympanic bulla is seen.

11 Years

**INTERPRETED BY**

Sebastian Schaub, DVM  
 Dr. med. vet. DipECVIM

The right tympanic bulla is filled with non-contrast enhancing soft tissue material.

**HOSPITAL NAME**

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The bones of the right aspect of the hyoid apparatus present moderate periosteal new bone formation and small lytic lesions.

The right ala of C1 presents moderate irregular but solid periosteal new bone formation.

**REFERRING VET**

Dr. Jerome Gagnon  
 DACVIM (Oncology)

Advanced atrophy of the right masticatory muscles is seen.

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 right mandibular lymph nodes, left medial retropharyngeal lymph node and right superficial cervical lymph node are moderately enlarged and rounded.

The right medial retropharyngeal lymph node is absent.

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2-10-22

Thorax

Both shoulder joints present moderate osteophyte new bone formation.



**PATIENT**

Juve Villani

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.

**SPECIES**

Canine

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.

**SEX**

MN

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- History of right tonsillar squamous cell carcinoma
- Large local invasive growing, biologically aggressive right lateral retropharyngeal mass
- Secondary polyostotic aggressive osteolytic lesions of the mandible, sphenoid & pterygoid bone and osseous structures of the hyoid apparatus
- Right sided neurogenic atrophy of the masticatory muscle due to involvement of the right mandibular nerve
- Right sided otitis media due to compression of the auditory tube by the mass
- Lymphadenopathy mandibular, left medial retropharyngeal and right superficial cervical lymph node
- Degenerative osteoarthritis shoulder joints bilaterally
- No evidence of pulmonary metastatic disease

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**HOSPITAL NAME**

Animal Health  
Partners

The findings are compatible with local reoccurrence of the tonsillar squamous cell carcinoma with a large right lateral retropharyngeal mass, extending up to the skull base and destruction of the mandible and hyoid apparatus. The enlarged lymph nodes are consistent with metastatic spread. Due to the extent of the mass, surgical excision of the mass is not possible and treatment options are limited to palliative management.

**REFERRING VET**

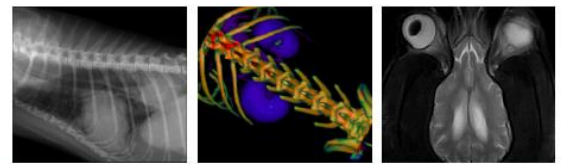
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**SPECIES**

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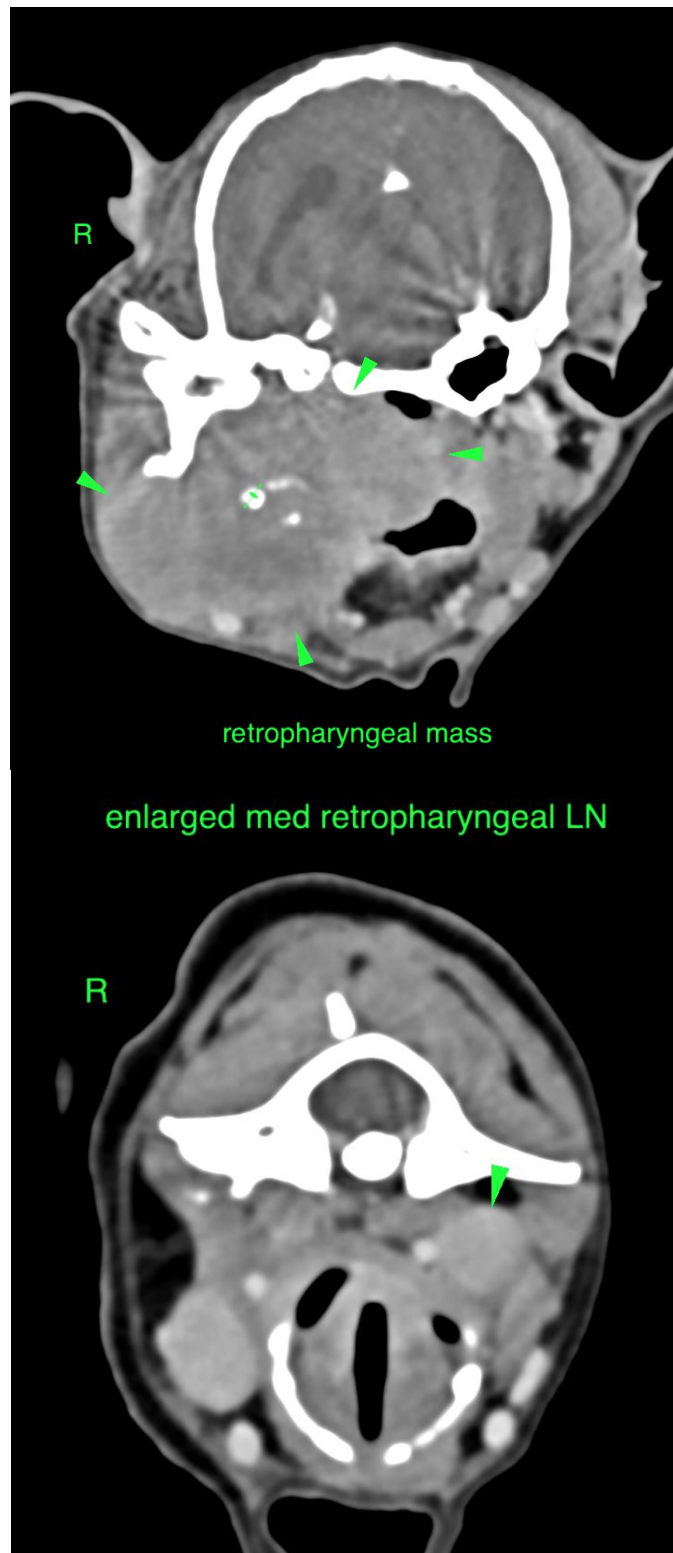
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**SPECIES**

Canine

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.

**BREED**

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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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**SEX**

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