



**PATIENT PRESENTING CLINICAL SIGNS**

Nala Jones really struggling opening mouth, swelling on LHS jaw Very quiet past couple of days Previously sedated to examine, nothing found,

**SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE HEAD**

Canine A pre- and post-contrast CT study of the head are provided for review totaling 2 series. One pre-contrast series of the head, bone algorithm. One post-contrast series of the head, soft tissue algorithm.

**BREED COMPUTED TOMOGRAPHIC FINDINGS**

JRT An ill-defined mildly hyperattenuating and enhancing soft tissue mass effect is seen surrounding the left mandibular ramus, pterygoid fossa, and angular process; however, no osseous bone involvement is seen. The soft tissue mass is expanding externally (laterally) and medially, and it is contiguous to the ipsilateral oropharynx wall and appears to extend intraluminal in the region of the oropharynx, tonsil. Due to the ill-defined border characteristic, it is difficult to see the limits and measure the lesion precisely. It measures approximately 3.0cm by 1.4cm by 1.9cm. The ipsilateral digastric and masseter muscles are indistinguishable.

AGE The temporomandibular joints are bilaterally congruent.

8 Years The left medial retropharyngeal lymph node, left mandibular lymph nodes, and parotid lymph node are enlarged, rounded in shape, and mildly heterogeneously enhancing. The right medial retropharyngeal lymph node, right mandibular lymph nodes, and right parotid lymph node are unremarkable.

**INTERPRETED BY**

Tilde Rodrigues Froes, DMV, MSc., Dr. Med Vet., Dipl. CBraRVet The salivary glands are unremarkable.

Some absent teeth are seen such as the triadans 110, 210, 301, 302, 303, 401, and 402. There is a large, focal, irregular, demarcated geographic lysis associated with the root of the triadan 304. Also, regional osteolytic changes in the mandibula are seen rostrally. An exacerbated resorptive lesion is also seen adjacent to the triadans 309. Diffuse horizontal and vertical bone loss is noted in the maxillary and mandibular bones.

**HOSPITAL NAME**

Animal Trust - Ellesmere Port The nasal cavities, turbinates, and choana are unremarkable.

The cribriform plate is intact.

**REFERRING VET**

Amber Mahon The frontal sinuses are unremarkable.

The bulla cavities and external auditory canals are normal.

**INVOICE** No mass effect is seen in the brain, normal attenuation.

59622 The fascial, cervical, and head muscle mass is symmetrical, and unremarkable.

The globes and retrobulbar spaces are unremarkable.

**DATE**

8-2-23



**PATIENT** The thyroid glands are unremarkable.

Nala Jones

### COMPUTED TOMOGRAPHIC DIAGNOSIS

#### SPECIES

Canine

- Large, soft tissue mass effect with ill-defined borders is affecting the soft tissue space and structures adjacent to the left mandibular ramus and appears to extend into the oropharynx. The origin of the mass is not defined. The differential diagnosis includes tonsil mass effect expanding externally, or a soft tissue mass, and includes a neoplasm process, for example tonsillar neoplasm carcinoma or metastatic from soft tissue melanoma, squamous cell carcinoma, undifferentiated sarcoma or others. The ipsilateral salivary gland is normal.

#### BREED

JRT

- Enlarged left side mandibular, retropharyngeal, and parotid lymph nodes, metastatic, or reactive.
- Diffuse periodontal disease. More exacerbated lesion in rostral mandible, differential diagnosis includes concurrent osteomyelitis, less likely neoplasm process, or metastatic lesion.
- Absent triadans 110, 210, 301, 302, 303, 401, and 402.

#### SEX

Female

### INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

#### AGE

8 Years

The tomographic findings of the ill-defined mass effect in the left mandibular region can explain the present clinical sign for struggling to opening the mouth. A cervical ultrasound could be considered as next approach for better analysis and if attainable, associated with fine-needle aspiration of the mass or enlarged cervical lymph nodes. For better analysis of invasiveness into the oropharynx, an endoscopy exam is suggested, or alternatively an MRI exam.

Correlate the tomographic findings with dental/oral exam.

#### INTERPRETED BY

Tilde Rodrigues Froes,  
DMV, MSc., Dr. Med  
Vet., Dipl. CBraRVet

A biopsy of the rostral mandible lesion, adjacent to the triadan 309, is also suggested.

#### TECHNICAL COMMENTS:

Blurring and streaks artifacts as well as low contrast attenuation of the post-contrast series are seen causing difficulty in defining detail and definition of the mandibular mass and the analysis of the infiltration into the oropharynx.

#### HOSPITAL NAME

Animal Trust -  
Ellesmere Port

#### REFERRING VET

Amber Mahon

#### INVOICE

59622

#### DATE

8-2-23



**PATIENT**

Nala Jones

**SPECIES**

Canine

**BREED**

JRT

**SEX**

Female

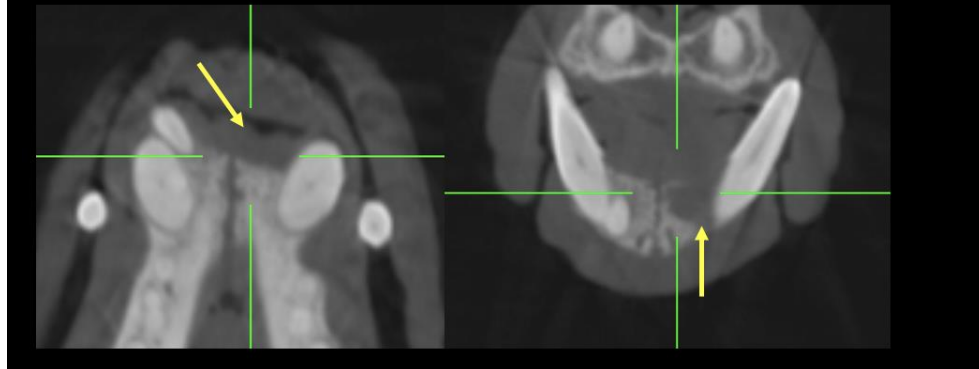
**ill-defined borders, soft tissue mass effect affecting the soft tissue space and structures adjacent the left mandibular ramus**



**AGE**

8 Years

**Absent triadans 301, 302, 303, 401, 402, There is a large, focal, irregular, demarcated geographic lysis associated with the root of the triadan 304.**



**INTERPRETED BY**

Tilde Rodrigues Froes,  
DMV, MSc., Dr. Med  
Vet., Dipl. CBraRVet

**HOSPITAL NAME**

Animal Trust -  
Ellesmere Port

**REFERRING VET**

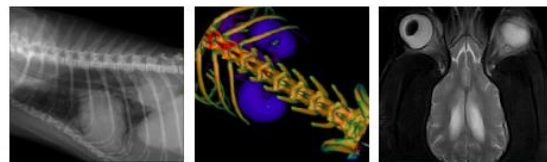
Amber Mahon

**INVOICE**

59622

**DATE**

8-2-23



**PATIENT**

Nala Jones

**SPECIES**

Canine

**BREED**

JRT

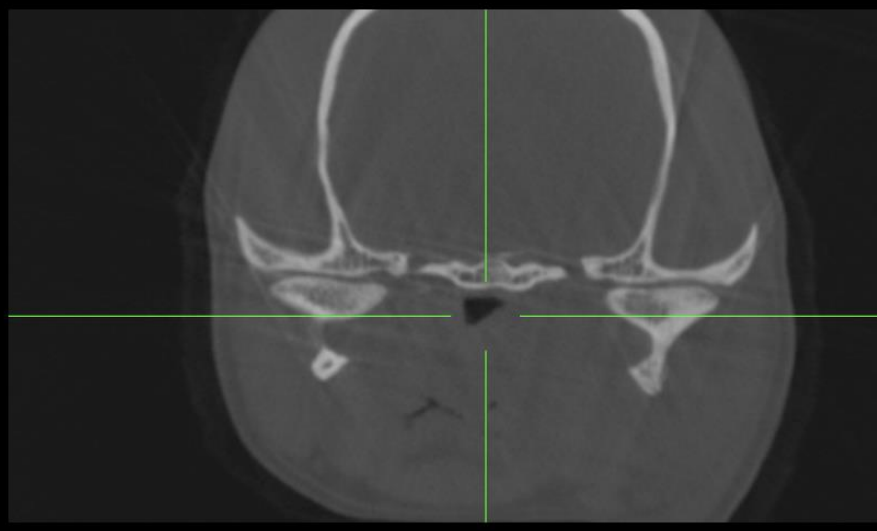
**SEX**

Female

**AGE**

8 Years

**The temporomandibular joints are bilaterally congruent.**



**INTERPRETED BY**

Tilde Rodrigues Froes,  
DMV, MSc., Dr. Med  
Vet., Dipl. CBraRVet

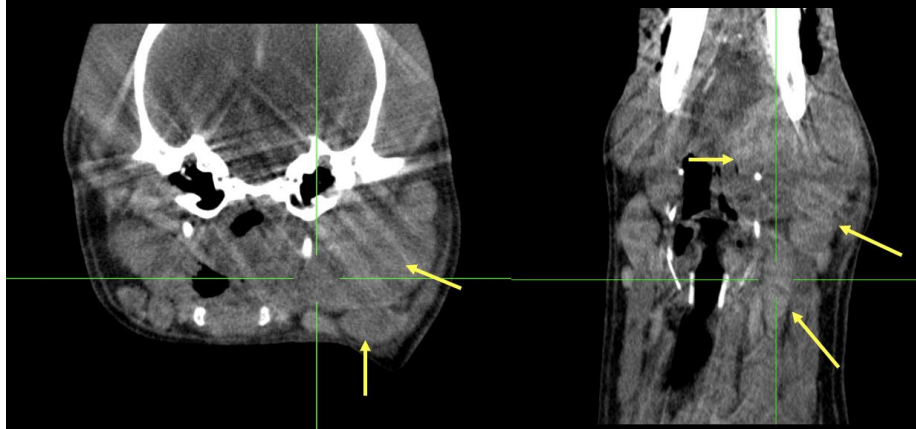
**HOSPITAL NAME**

Animal Trust -  
Ellesmere Port

**REFERRING VET**

Amber Mahon

**Enlarged left side mandibular, retropharyngeal and mass effect**



**INVOICE**

59622

**DATE**

8-2-23



**PATIENT** 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.

Nala Jones

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.

**SPECIES**

Canine

**Tilde Rodrigues Froes, DMV, MSc., Dr. Med.Vet., Dipl.CBraRVet**  
info@sonopath.com

**BREED**

JRT

**SEX**

Female

**AGE**

8 Years

**INTERPRETED BY**

Tilde Rodrigues Froes,  
DMV, MSc., Dr. Med  
Vet., Dipl. CBraRVet

**HOSPITAL NAME**

Animal Trust -  
Ellesmere Port

**REFERRING VET**

Amber Mahon

**INVOICE**

59622

**DATE**

8-2-23