



**PATIENT PRESENTING CLINICAL SIGNS**

**Gidget Minore** Mass in her right ear that has been progressively growing and causing secondary infections and discharge from the ear. She has also had vestibular episodes in the past two years and currently. In the last two weeks the owners have noticed a swelling under her right ear.

**SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE HEAD AND CERVICAL SOFT TISSUE**

**Feline** A high-resolution pre- and post-contrast CT study of the head are provided for review. One pre-contrast series and two post-contrast series.

**BREED COMPUTED TOMOGRAPHIC FINDINGS**

**DSH** A large, irregularly margined mass arises from the right middle ear, extending throughout the ipsilateral external auditory canal and adjacent soft tissue structures. The mass causes a loss of distinction in the auditory canal wall, and only a small portion of the wall is defined close to the tympanic bulla. In addition, the tympanic bulla is entirely filled with a mix of soft tissue attenuating and hypoattenuating fluid material as well as a heterogeneous contrast-enhancing tissue mass effect. Because of the irregularity of the mass, it is difficult to measure; however, it measures approximately 4.3cm x 2.6cm x 2.6cm. The adjacent muscles are also heterogeneous and apparently involved in the mass; they are the masseter, parotid fascial, and part of the digastric muscle. The ipsilateral salivary gland, parotid gland, mandibular lymph nodes, and retropharyngeal lymph nodes are also ill-defined and surrounded by the mass.

**SEX** In addition, the tympanic bulla is entirely filled with a mix of soft tissue attenuating and hypoattenuating fluid material as well as a heterogeneous contrast-enhancing tissue mass effect. Because of the irregularity of the mass, it is difficult to measure; however, it measures approximately 4.3cm x 2.6cm x 2.6cm. The adjacent muscles are also heterogeneous and apparently involved in the mass; they are the masseter, parotid fascial, and part of the digastric muscle. The ipsilateral salivary gland, parotid gland, mandibular lymph nodes, and retropharyngeal lymph nodes are also ill-defined and surrounded by the mass.

**Spayed Female**

**AGE** The left tympanic bulla is entirely filled with a mix of soft tissue attenuating, hypoattenuating, and heterogeneous contrast-enhancing material. The external auditory wall canal is more defined and partially air-filled. The defined wall is thickened and irregular. Severe hyperostosis with an expansile appearance is seen bilaterally; however, there is no evidence of osteolysis.

**15 Years, 3 Months**

**INTERPRETED BY**

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

The left tympanic bulla is entirely filled with a mix of soft tissue attenuating, hypoattenuating, and heterogeneous contrast-enhancing material. The external auditory wall canal is more defined and partially air-filled. The defined wall is thickened and irregular. Severe hyperostosis with an expansile appearance is seen bilaterally; however, there is no evidence of osteolysis.

Severe sclerosis is seen in the petrous part of the temporal bone, bilaterally.

**HOSPITAL NAME**

Mobile Pet Imaging

An irregular mixed attenuation mass effect is seen within the nasopharynx and is partially obstructing the lumen. It is positioned more to the left side, close to the left tympanic bulla, and appears to be a thickening of adjacent soft tissue. However, the mass is not protruding from the tympanic bulla. Concurrent hypoattenuating fluid material is seen.

Minimal focal adjacent meningeal enhancement is seen bilaterally.

**REFERRING VET**

Villasmil

The nasal cavities and nostrils are normal. The sphenoidal and frontal sinuses are normal.

The hyoid apparatus is normal.

**INVOICE**

57634

The retrobulbar spaces are normal.

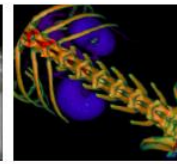
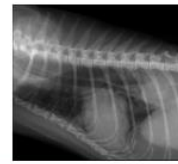
The cribriform plate is normal.

No mass effect in the brain.

**DATE**

4-5-23

Other osseous structures of the calvarium are normal.



**PATIENT** Multiple absent teeth are seen including the triadans 101,102, 103, 104, 201, 202, 203, 301, 302, 303, 401, 402, 403 and 404. There is severe horizontal and vertical alveolar bone loss along the remaining teeth.  
 Gidget Minore

**SPECIES** The left retropharyngeal lymph node is enlarged and heterogeneous and measures 0.46 cm thickening. The left mandibular lymph nodes are unremarkable.

**Feline** **COMPUTED TOMOGRAPHIC DIAGNOSIS**

- BREED** DSH
- SEX** Spayed Female
- AGE** 15 Years, 3 Months
- Right side aggressive and invasive mass effect affecting the external auditory canal, tympanic bulla, and adjacent structures such as the masseter, parotid fascial, and part of the digastric muscles, mandibular salivary gland, parotid gland, and retropharyngeal and mandibular lymph nodes. Differential diagnosis includes neoplasms; however, concurrent soft tissue abscessation and infectious otitis could be considered.
  - Left side mass within the tympanic bulla, close to the horizontal auditory canal, and concurrent chronic otitis media and externa.
  - Bilateral minimal meningeal infiltration indicates otitis interna.
  - The nasopharyngeal mass partially obstructs the airway passage in some portions. The differential diagnosis includes correlated auditory/adjacent soft tissue masses, inflammation, or pharyngeal neoplasms such as lymphoma or granuloma.
  - Left-side retropharyngeal lymphadenitis, reactive or metastatic.
  - Severe periodontal disease and likely concurrent osteomyelitis, multiple absent teeth.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY** Tilde Rodrigues Froes, DMV, MSc., Dr. Med Vet., Dipl. CBrarVet

The tomographic findings confirm the progressive mass effect correlated to the right auditory canal and tympanic bulla; however, a left sided lesion is also identified and is less aggressive. The differential diagnosis includes neoplasm, for example, ceruminous adenocarcinoma, squamous cell carcinoma, or invasive tympanokeratomas. Concurrent inflammation and bacterial/fungal contamination are considered. To confirm the etiological diagnosis, a biopsy is required. A surgical consultation to define the best treatment approach is suggested.

**HOSPITAL NAME** Mobile Pet Imaging

Correlate to the oral/dental findings with oral exam.

**REFERRING VET**

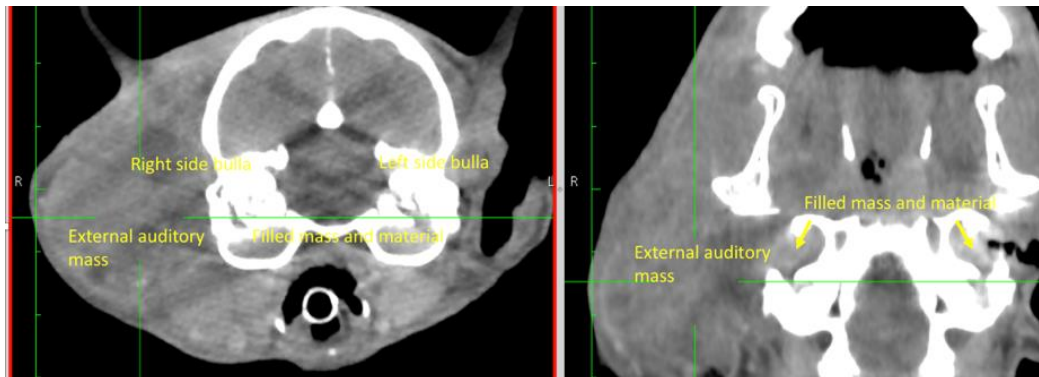
Villasmil

**INVOICE**

57634

**DATE**

4-5-23





**PATIENT**

Gidget Minore

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

15 Years, 3 Months

**INTERPRETED BY**

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

**HOSPITAL NAME**

Mobile Pet Imaging

**REFERRING VET**

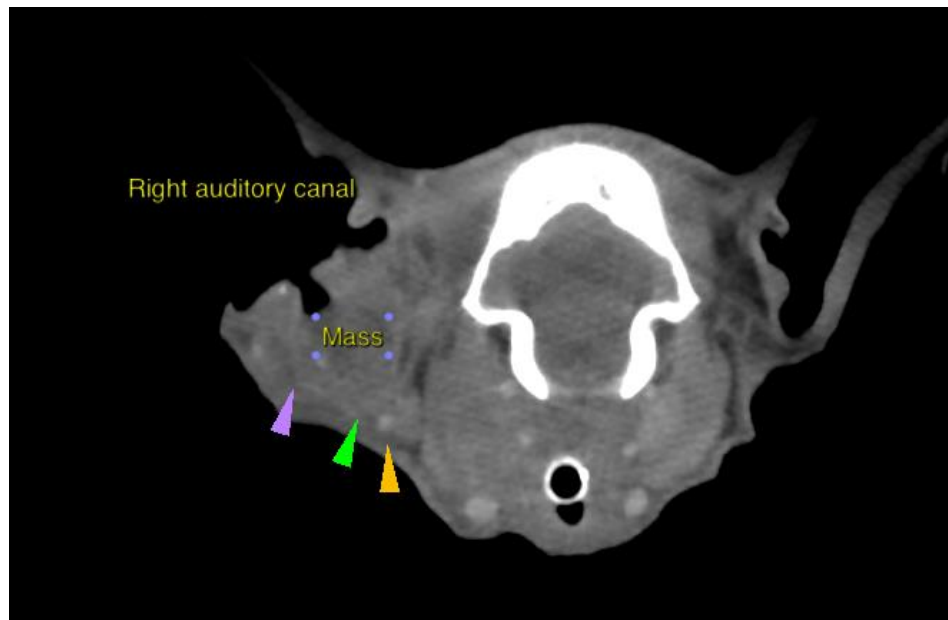
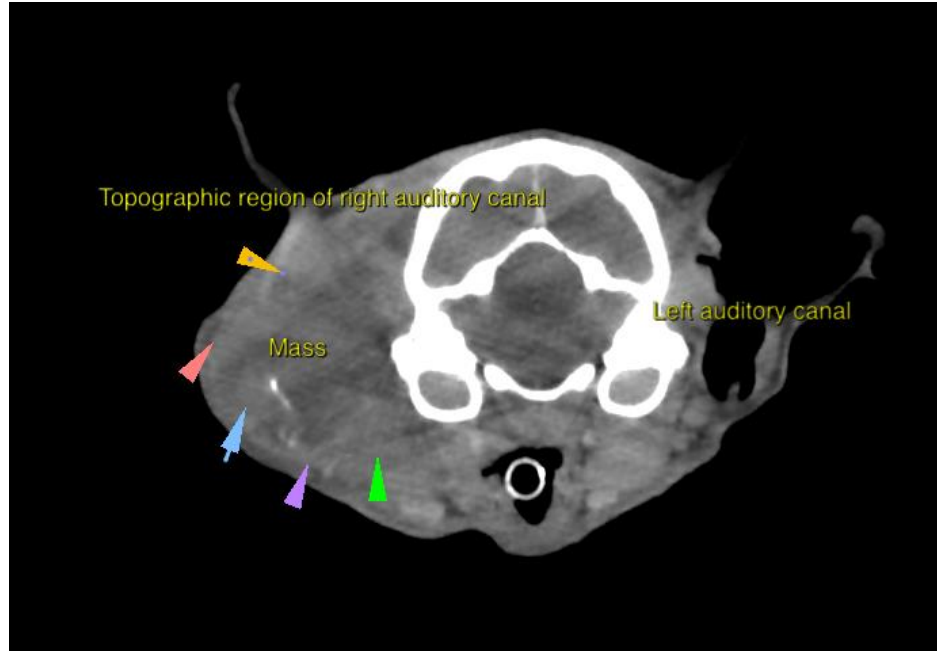
Villasmil

**INVOICE**

57634

**DATE**

4-5-23





**PATIENT**

Gidget Minore

**SPECIES**

Feline

**BREED**

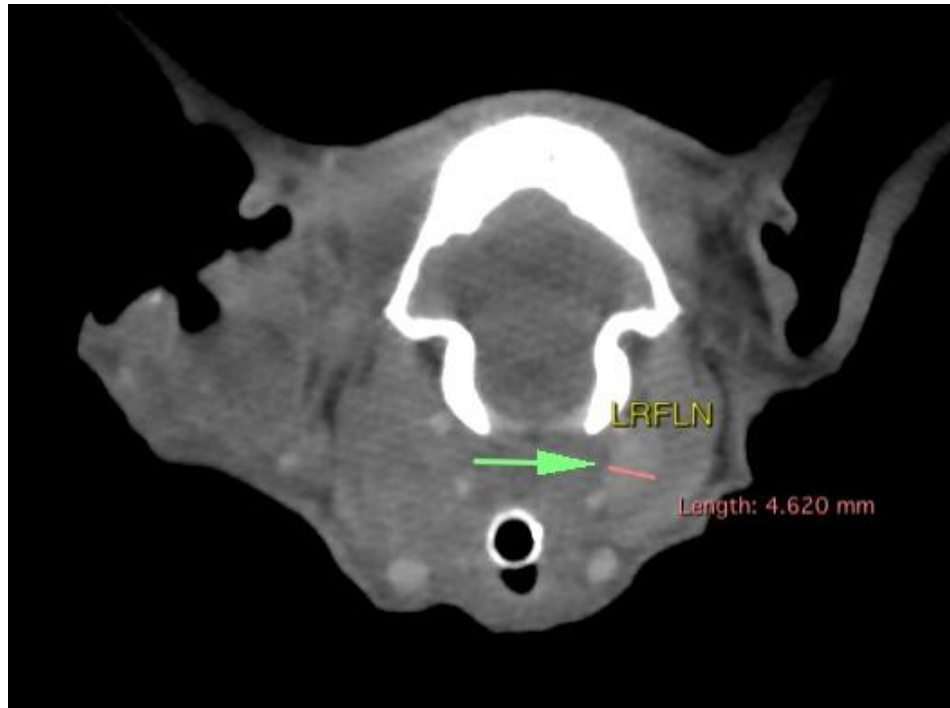
DSH

**SEX**

Spayed Female

**AGE**

15 Years, 3 Months



**INTERPRETED BY**

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

**HOSPITAL NAME**

Mobile Pet Imaging

**REFERRING VET**

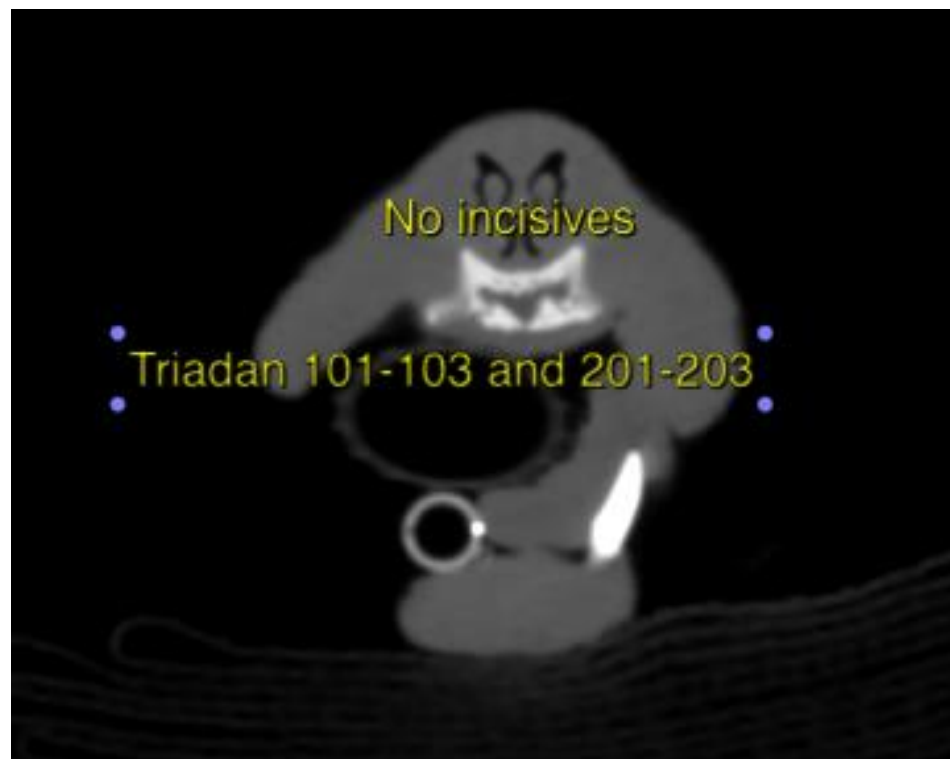
Villasmil

**INVOICE**

57634

**DATE**

4-5-23





**PATIENT**

Gidget Minore

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

15 Years, 3 Months

**INTERPRETED BY**

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

**HOSPITAL NAME**

Mobile Pet Imaging

**REFERRING VET**

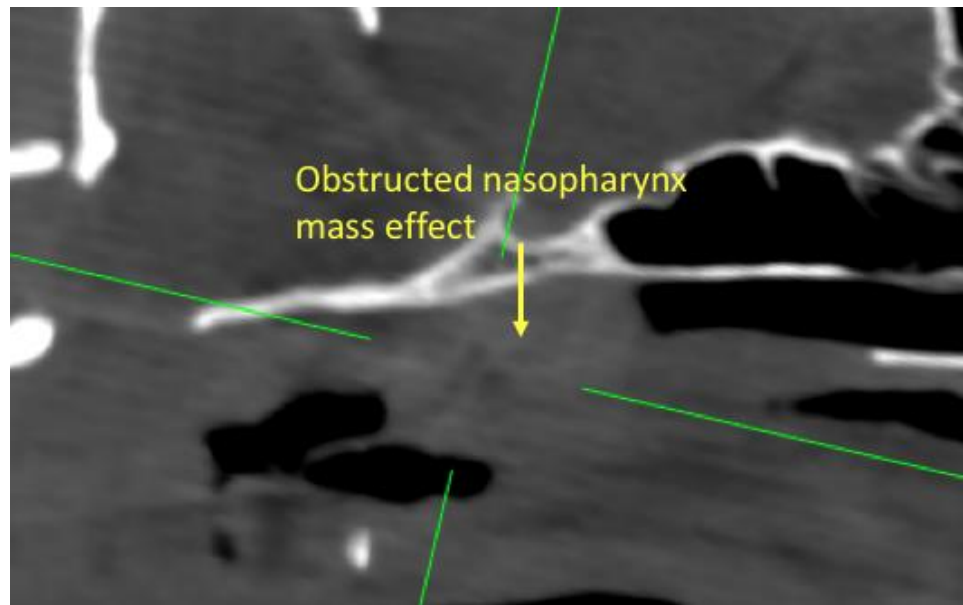
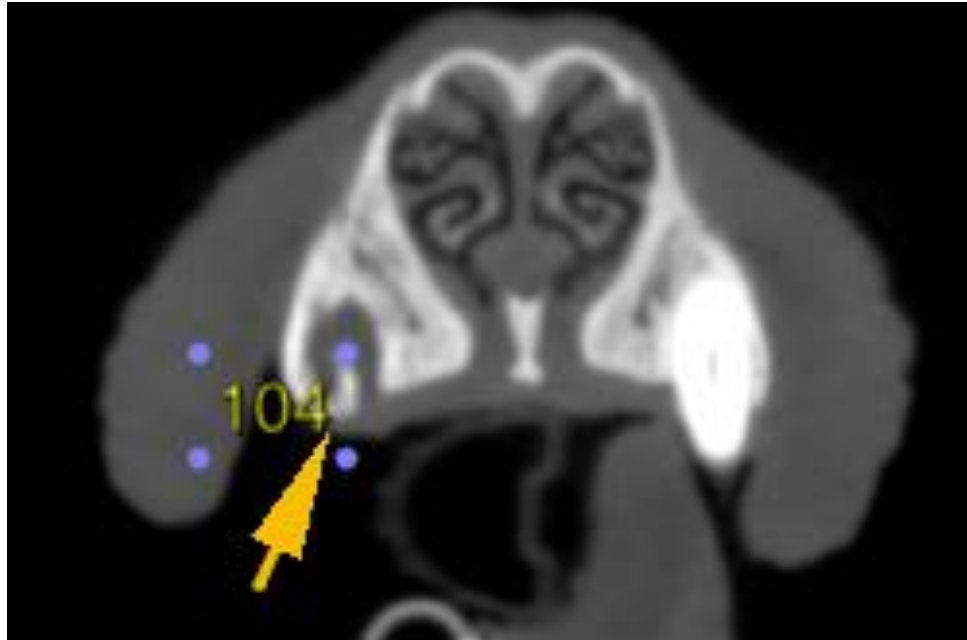
Villasmil

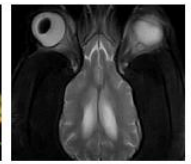
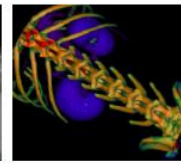
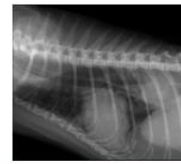
**INVOICE**

57634

**DATE**

4-5-23





**PATIENT**

Gidget Minore

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.

**SPECIES**

Feline

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.

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

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

15 Years, 3 Months

**INTERPRETED BY**

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

**HOSPITAL NAME**

Mobile Pet Imaging

**REFERRING VET**

Villasmil

**INVOICE**

57634

**DATE**

4-5-23