



PATIENT PRESENTING CLINICAL SIGNS

- PATIENT** Bentley Pagos
- Presented with jaw pain approx 12 mos ago, responded well to Prednisone, able to wean off in October 2025
 - Represented early March with jaw pain again when dogs yawns or takes a treat will whimper. Doesn't seem to responding to the Pred as well this time
 - Referring DVM suspects Masticatory Muscle Myositis (MMM)
- SPECIES** Canine

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD

BREED Pug Mix
Plain and post contrast studies are available for review.

COMPUTED TOMOGRAPHIC FINDINGS

SEX MN
The right tympanic bulla is filled with soft tissue attenuating material. Marked expansion of the right tympanic bulla with severe chronic changes is seen. The bulla is filled with heterogeneous soft tissue attenuating material. Presence of osteoproliferative changes with irregular bony thickening is seen. The focal bulla wall defect is identified ventrolaterally with severe expansion of the bulla.

AGE 12yr
There is evidence of skull base lysis which is likely pressure related. The osteoproliferative changes extend into adjacent structures including the right temporomandibular joint which shows extensive reactive bone changes and occipital region.

INTERPRETED BY Nele Eley (Ondreka), DVM Dr. med. vet., DipECVDI
Signs of regional soft tissue inflammation with soft tissue swelling and increased contrast enhancement are seen. Suspicion of extension toward inner ear structures and possible early meningeal involvement are seen.

The left ear presents mild signs of otitis media of the left tympanic bulla. Signs of mild chronic bilateral otitis externa are seen.

HOSPITAL NAME Green Prairie Animal Hospital
Generalized periodontal disease with presence of supernumerary teeth is seen. These findings are considered unrelated to the primary pathology.

Mild regional right sided submandibular lymphadenomegaly is seen.

COMPUTED TOMOGRAPHIC DIAGNOSIS

- REFERRING VET** American A.H.-Dr. Somers
- Severe chronic right side otitis media with bulla expansion, osteoproliferation extending to the occipital region and right temporomandibular joint, bulla wall defect and skull base lysis
 - Mild left otitis media and mild bilateral otitis externa
 - Right submandibular lymphadenomegaly compatible with reactive change
 - Periodontal disease and supernumerary teeth

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DATE

03/25/2026

INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

The findings are highly suspicious for tympanokeratoma/ cholesteatoma formation of the right middle ear. Overt signs of aggressive behavior raising concern for neoplasia are not seen on CT. There is secondary involvement of the right temporal mandibular joint. Possible extension into the



PATIENT

Bentley Pagos

inner ear and meninges has to be considered as well. The temporomandibular joint involvement likely explains the clinical jaw pain and this presentation can mimic masticatory muscle myositis.

SPECIES

Canine

Surgical exploration for TECA-LBO is strongly recommended for both therapeutic and diagnostic purposes, allowing for removal of the lesion, osteoproliferative changes and definitive diagnosis by means of histopathology, which is essential to identify tympanokeratoma.

BREED

Pug Mix

SEX

MN

AGE

12yr

INTERPRETED BY

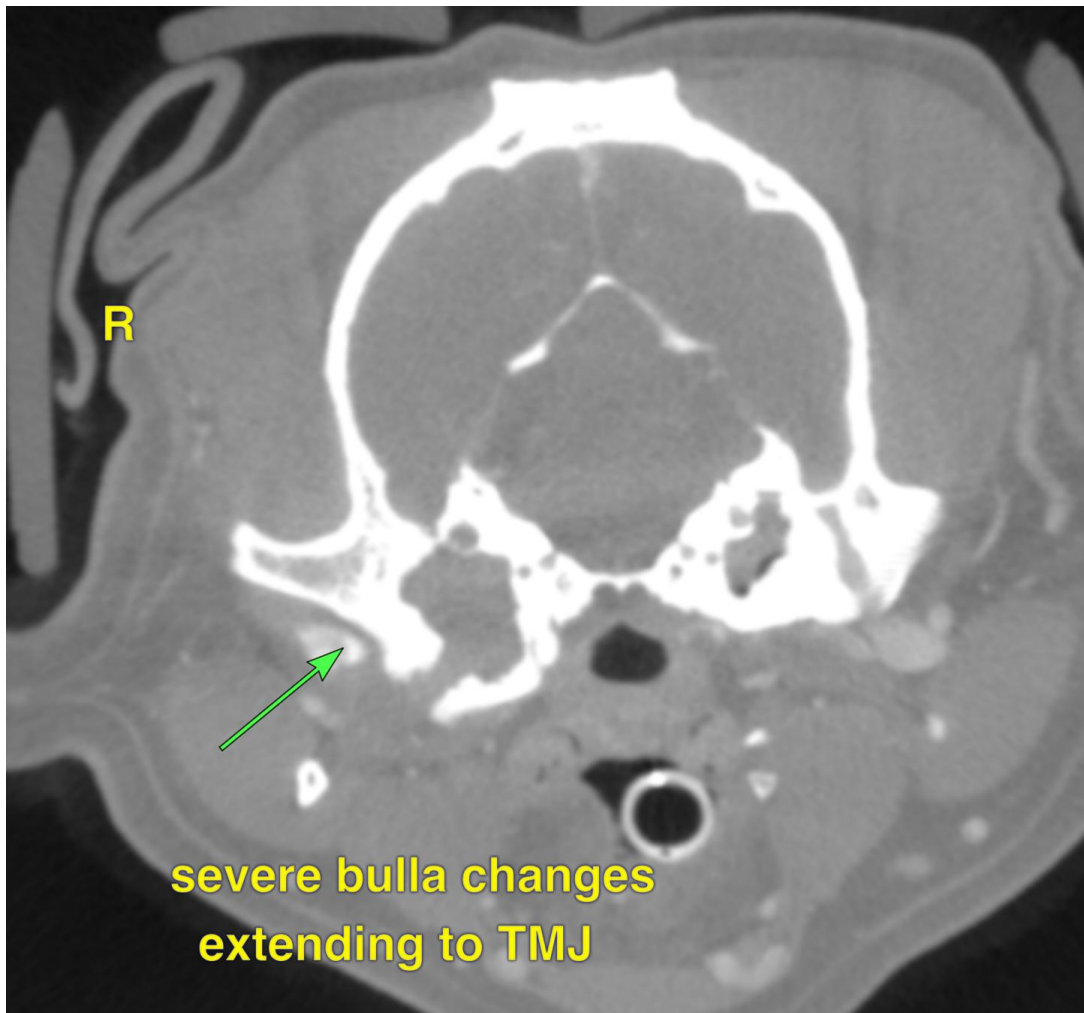
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HOSPITAL NAME

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REFERRING VET

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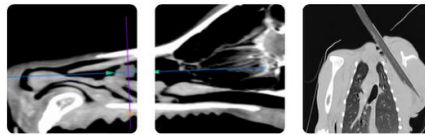
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.



PATIENT

Bentley Pagos
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Canine

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