



**PATIENT**

Merle Travis  
Skidmore

**PRESENTING CLINICAL SIGNS**

Intermittent but severe pain on opening mouth wide. Teeth apparently healthy. Concern for valley fever vs bacterial osteomyelitis. Cocci titer pending

**SPECIES**

Canine

**COMPUTED TOMOGRAPHIC STUDY OF THE HEAD**

Plain and post contrast studies available for review.

**BREED**

Standard Poodle

**COMPUTED TOMOGRAPHIC FINDINGS**

Extensive thickening of the left temporal, frontal, and occipital bones is seen with medullary sclerosis and a mix of moth eaten osteolysis and brush bordered periosteal new bone formation. The changes are most pronounced level with the left temporomandibular joint and its condylar fossa.

**SEX**

Male

Regionally increased contrast enhancement in the soft tissues circumferential to the left temporomandibular joint and base of the ear canal is seen as well.

**AGE**

10 Months

Mild narrowing of the left ovale foramen and optic canal is seen respectively.

The skull base and left inner ear structures present within normal limits.

The mandible's condyles are largely spared from the osseous changes and the changes are limited to the maxillary part of the left temporomandibular joint.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

Regional meningeal thickening in the ventral and lateral aspect of the left frontal lobe, temporal lobe, and occipital lobe is seen with increased contrast enhancement.

Mild left sided temporal masticatory muscle atrophy is noted.

**HOSPITAL NAME**

Queen Creek  
Veterinary Clinic

The left submandibular and retropharyngeal lymph nodes present mild symmetric enlargement.

The medial aspect of the left external auditory meatus is narrow; however, appears to be patent.

**REFERRING VET**

Dr. Makenzie Kurth  
DVM

- Regional osteopathy with a mix of hyperostosis and bone lysis of the calvarium level with and peripheral to the left temporomandibular joint.
- Mild secondary stenosis of the left optic canal and ovale foramen as well as mild medial stenosis of the left external auditory meatus.
- Left sided submandibular and medial retropharyngeal lymphadenomegaly.
- Left sided masticatory muscle atrophy.
- Regional meningopathy.

**INVOICE**

52337

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The CT findings are highly suggestive for calvarial osteomyelitis involving the left temporomandibular joint with regional meningitis, myositis, arthritis, and stenosis of the left external auditory meatus.

**DATE**

6-6-22



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The regional lymphadenomegaly is compatible with lymphadenitis.

As prior injury or bite wound are the most common causes of calvarial and temporomandibular joint osteomyelitis and arthritis, trauma to the left external auditory meatus should be taken into consideration as well.

**SPECIES**

Canine

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**SEX**

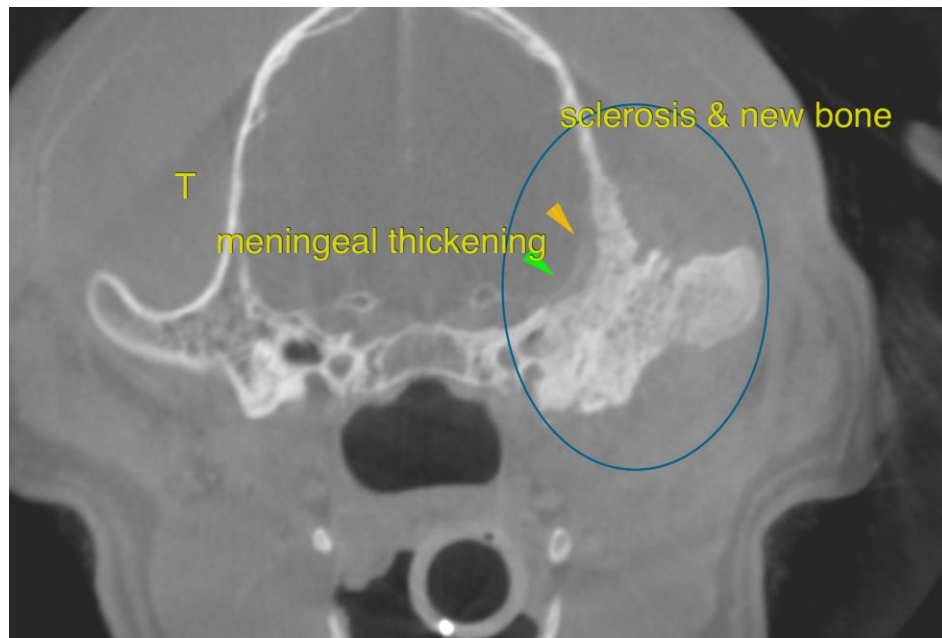
Male

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**HOSPITAL NAME**

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Veterinary Clinic

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.

**REFERRING VET**

Dr. Makenzie Kurth  
DVM

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