



PATIENT

Mittens Mockler

PRESENTING CLINICAL SIGNS

7yo DSH with 6 month history being treated for external ear infection with no response. several week of facial asymmetry; exam: firm palpable mass left cranial cervical/mandibular region with extension into the oral cavity behind last molar, left sided cranial nerve 3,4,5,6,7,8 dysfunction with evidence of atrophy of the left facial muscles. BW: mild hyperglobulinemia, otherwise unremarkable

SPECIES

Feline

MAGNETIC RESONANCE IMAGING STUDY OF THE HEAD

BREED

T2, T2-star, diffusion weighted, ADC, FLAIR, and T1-weighted, plain and post contrast images available for review.

Domestic Short Hair

MAGNETIC RESONANCE IMAGING FINDINGS

SEX

FS

The MRI study reveals an irregular shaped and ill-defined left auricular soft tissue mass which extends beyond the limits of the left external auditory meatus and causes aggressive osteolytic changes of the zygomatic arch, left mandible, left temporomandibular joint, left temporal bone, skull base, and left tympanic bulla. The mass extends into the temporal region, masseter muscle, retropharyngeal area, left middle ear, as well as into the cranial and middle fossa of the cranium. The mass effect is seen level with the emergence of the left cranial nerves accentuated in the area of the 7th and 8th left cranial nerve. The signal behavior is severely heterogeneous on all available images with central cavitation, extensive periosteal new bone formation of the left temporal bone, and strong nonuniform contrast enhancement. Meningeal thickening and increased enhancement are seen level with the pons and temporal lobe of the left cerebral hemisphere.

AGE

7 Years

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

The left submandibular, parotid, and medial retropharyngeal lymph nodes are severely enlarged with heterogeneous contrast enhancement.

MAGNETIC RESONANCE IMAGING DIAGNOSIS

HOSPITAL NAME

Animal Health
Partners

- Left auricular soft tissue mass with polyostotic aggressive osteolysis and retropharyngeal as well as intracranial and left middle ear extension.
- Severe multiple regional lymphadenomegaly.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Dr. Stephanie Lovell

The MRI findings are compatible with a malignant soft tissue neoplasia most likely originating from the left external auditory meatus with retropharyngeal and intracranial extension as well as polyostotic aggressive bone lysis. Differential diagnosis includes ceruminous cell carcinoma, adenocarcinoma, soft tissue sarcoma, and round cell neoplasia. Primary neoplasia of bone cannot be ruled out entirely but is thought less likely owing to the polyostotic aggressive osteolytic character of the lesion.

INVOICE

54035

The lymph node changes are compatible with metastatic disease. Reactive hyperplasia appears less likely.

DATE

9-7-22

Sampling of the mass and lymph nodes could be considered for further definition.



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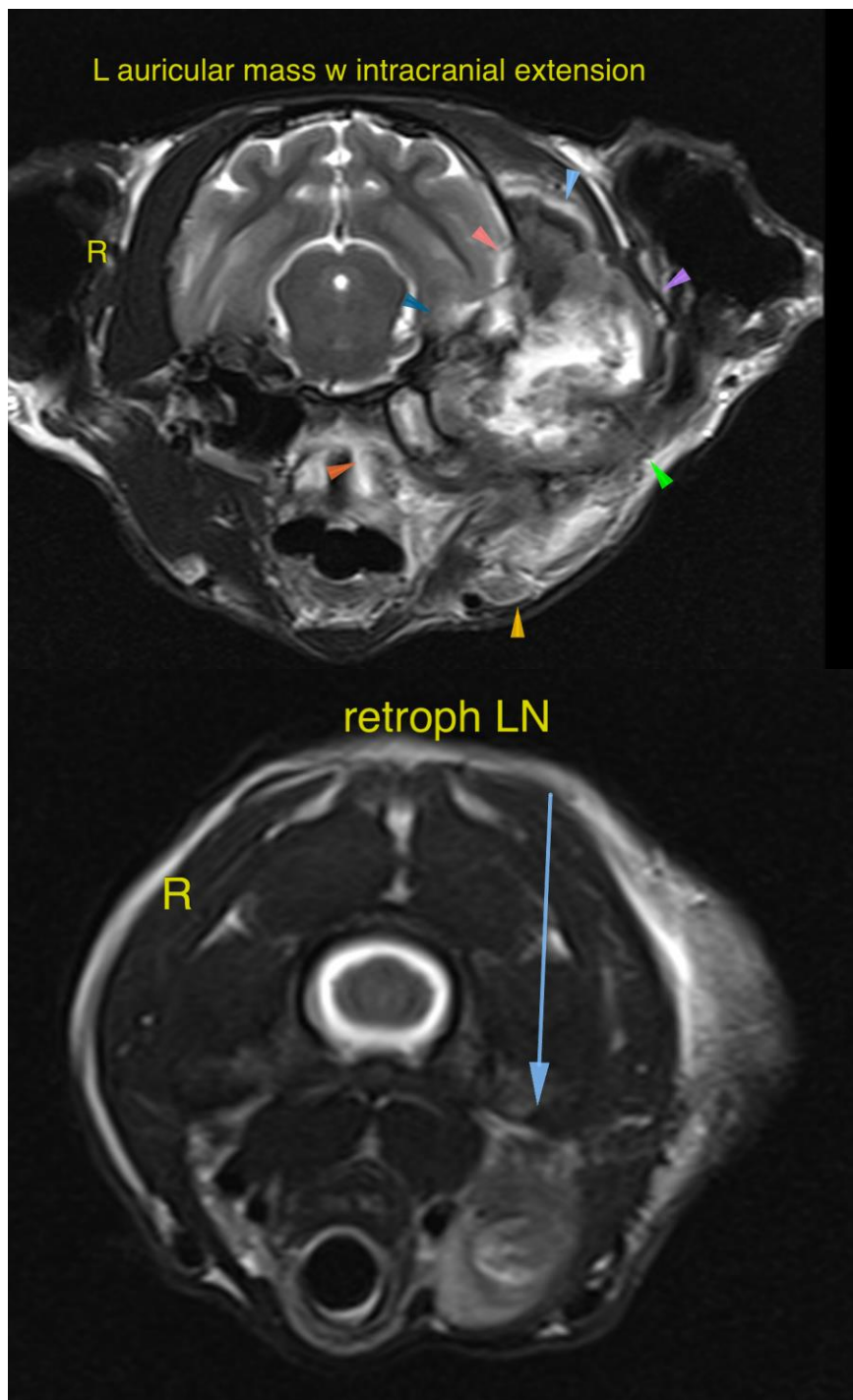
Dr. Stephanie Lovell

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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.

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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.

BREED

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Nele Eley, DVM, Dr. med. vet., DipECVDI
European Specialist in Veterinary Diagnostic Imaging, Cert. Radiology,
Senior lecturer University of Giessen, Germany, Veterinary Faculty, Department of Radiology
Nele.Eley@sonopath.com

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