



**PATIENT PRESENTING CLINICAL SIGNS**

Daisy Olsen Right ear canal ulcerated mass effect with lymphadenopathy of right mandibular and prescapular nodes

**SPECIES COMPUTED TOMOGRAPHY OF THE SKULL & THORAX**

Canine A high resolution post-contrast CT study of the skull and thorax are provided for review.

**COMPUTED TOMOGRAPHIC FINDINGS**

**BREED**

Skull

Shih Tzu

Multiple teeth are absent. The remaining teeth present evidence of advanced periodontal disease. The mesial root of triadan 207 is perforating the left nasal cavity; an accompanying soft tissue swelling is visible in the left ventral nasal meatus. The mesial palatine root of triadan 208 presents with a horizontal fracture level in the proximal aspect of the root.

**SEX**

The nasal cavity presents the expected aerated spaces between thin & even conchae and turbinates with smooth mucosal lining.

FS

Both temporomandibular joints present congruent joint spaces with even subchondral bone surfaces and are considered within normal limits.

**AGE**

12 Years

Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. Centered on the right external ear canal, an amorphous, ill-defined, heterogeneous contrast enhancing mass is seen, obliterating the right external ear canal and extending into the surrounding soft tissues and is measuring approximately 3.0 x 4.6 x 2.6 cm in size. In the medial aspect the mass is extending up to the level of the right external acoustic porus. The right tympanic bulla contains a moderate amount of non-contrast enhancing soft tissue material.

**INTERPRETED BY**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

The brain presents no deviation from normal anatomy and symmetry. The brain parenchyma is homogeneous and within normal limits for attenuation and distribution of contrast enhancement. The ventricular system is non-dilated and symmetric.

**HOSPITAL NAME**

Animal Surgical  
Center

The right mandibular lymph nodes are moderately enlarged. The right medial retropharyngeal lymph node and deep cervical lymph node are significantly enlarged and present a heterogeneous contrast enhancement pattern.

**REFERRING VET**

Amityville AH

In the subcutaneous tissue at the right caudolateral aspect of the neck, a mild ill-defined, heterogeneous contrast enhancing mass, measuring 4.8 x 2.8 x 5.8 cm is visible. The mass is extending up the level of the right supraspinatus muscle caudally and up to the level of C5 cranially.

**INVOICE**

The thyroid glands are within normal limits for size, shape and organ architecture.

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Thorax

The periarticular bones of the right shoulder joint present mild osteophyte new bone formation.

**DATE**

6-30-22

The cranial mediastinal lymph nodes are prominent and rounded.

The cardiovascular structures including the pulmonary vasculature are within normal limits.

The bronchial tree presents with regular branching and tapers uniformly towards the periphery as expected, the bronchial walls are thin and smooth. The bronchus-to-artery ratio is within



**PATIENT** normal limits.

Daisy Olsen The lung parenchyma presents a generalized mild heterogeneous ground-glass attenuating pattern of the parenchyma with thickened interstitial bands and multifocal peripherally accentuated small (< 1.5 mm) ill-defined nodular lesions.

**SPECIES** Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.

Canine

### COMPUTED TOMOGRAPHIC DIAGNOSIS

**BREED**

Shih Tzu

- Soft tissue mass centered on right external ear canal
- Lymphadenopathy right mandibular lymph nodes, right medial retropharyngeal LN, right superficial cervical lymph node and cranial mediastinal lymph nodes
- Structured nodular interstitial lung pattern
- Oronasal fistula formation 207 with secondary odontogenic rhinitis
- Fracture mesial root 208
- Right sided otitis media
- Multiple absent teeth
- Degenerative osteoarthritis right shoulder joint

**SEX**

FS

**AGE**

12 Years

### INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The findings are highly suggestive for primary soft tissue neoplasm originating from the right external ear canal, the top differentials are ceruminous gland adenocarcinoma or squamous cell carcinoma. The enlarged tributary lymph nodes and the micronodular lung pattern are compatible with metastatic spread. Potential palliative treatment options can be discussed with oncologist.

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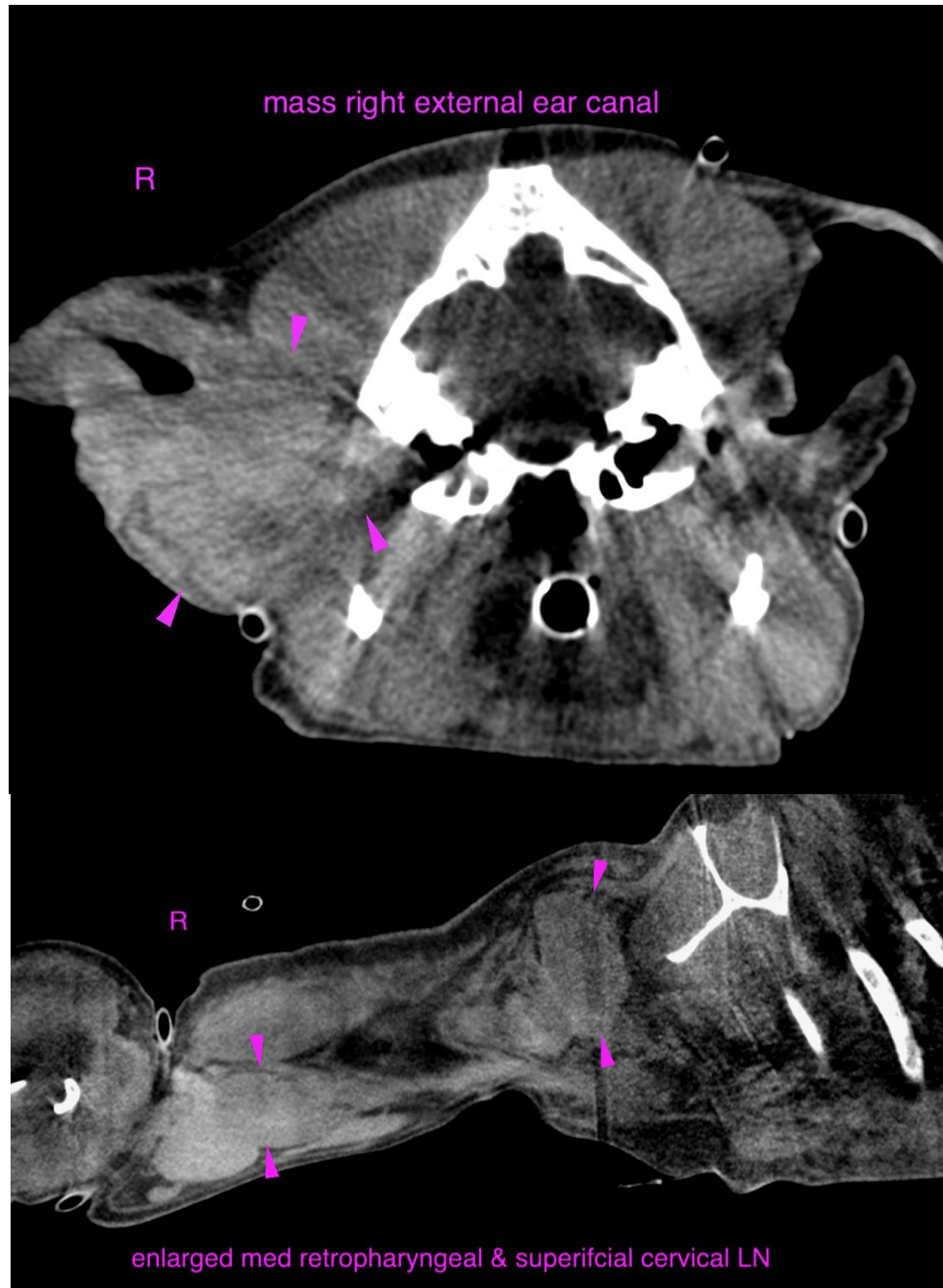
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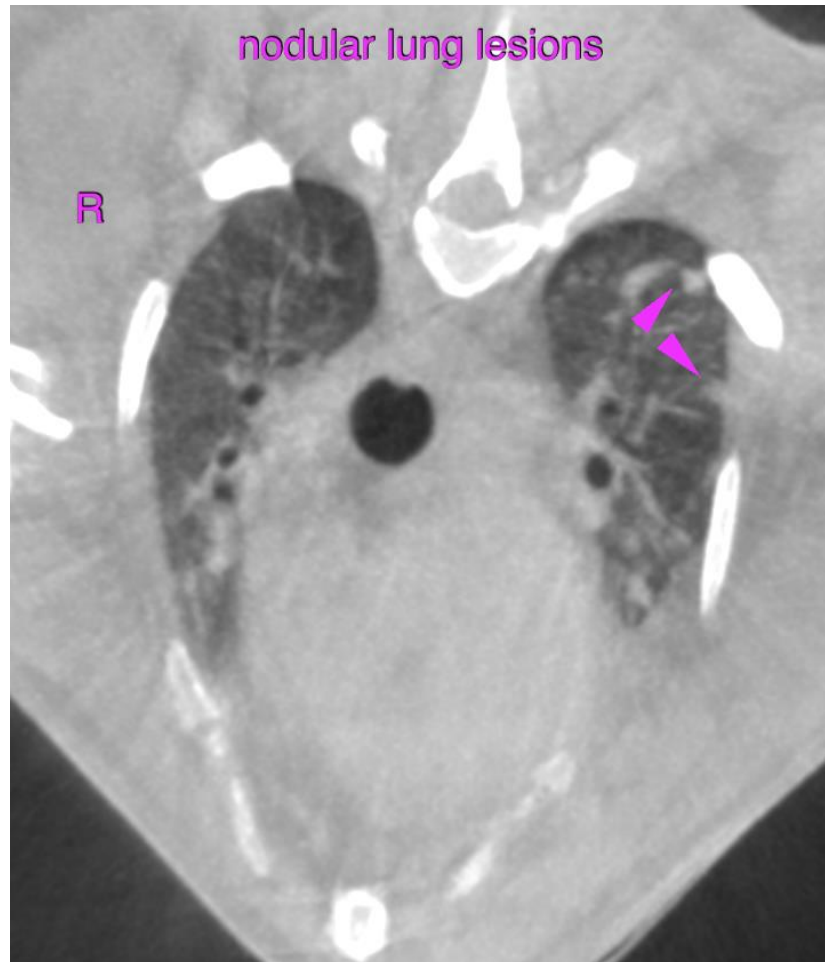
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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