



**PATIENT PRESENTING CLINICAL SIGNS**

Esmeralda Figueroa Retrobulbar abscess vs mass OS.

**COMPUTED TOMOGRAPHY OF THE SKULL & THORAX**

**SPECIES** A high resolution pre- and post-contrast CT study of the skull and a post-contrast CT study of the thorax are provided for review.

Canine

**COMPUTED TOMOGRAPHIC FINDINGS**

**BREED** Skull

Mixed Breed

The tooth elements 105, 106, 205, 208-210, 301, 310, 311 and 401 are absent. The remaining teeth present evidence of mild to moderate periodontal disease.

**SEX**

FS

At the ventral aspect of the left zygomatic arch, an ill-defined, uniform soft tissue attenuating and heterogeneous contrast enhancing mass is visible. The mass is extending caudally along the lateral aspect of the ramus of the left mandible up to the level of the left temporomandibular joint and rostromedially along the alveolar process of the left maxillary bone up to the level of absent triadan 208. The left zygomatic arch and alveolar process of the left maxillary bone present permeative osteolytic lesions. The mass is protruding into the ventral aspect of the left orbit and the left ocular bulb is displaced dorsally and rostrally. The surrounding fat presents mild fat-stranding.

**AGE**

6 Years

The left mandibular lymph nodes are moderately enlarged and rounded, presenting a heterogeneous contrast enhancement pattern.

**INTERPRETED BY**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

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

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

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Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external ear canals are within normal limits.

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.

**REFERRING VET**

Borecky

Thorax

The bony and surrounding soft tissue structures are within normal limits.

The sternal, cranial mediastinal and tracheobronchial lymph nodes are small elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation and contrast enhancement pattern is uniform and considered within normal limits.

**INVOICE**

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

Multifocal throughout the lung parenchyma, nodular, partially confluent lesions are appreciated, measuring up to 14 mm in size.

**DATE**

6-29-22

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



**PATIENT**      **COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Esmeralda Figueroa
- Local invasive growing soft tissue neoplasm left buccal region and protrusion into the left orbit and polyostotic aggressive osteolytic lesions of the associated osseous structures
  - Secondary left sided exophthalmos
- SPECIES**
- Lymphadenopathy left mandibular lymph nodes
  - Structured nodular interstitial lung pattern
- Canine
- Generalized mild to moderate periodontal disease
  - Multiple absent teeth

**BREED**      **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Mixed Breed      The findings are consistent with a soft tissue neoplasm , originating from the left buccal region/left orbit. Differentials include melanoma, fibrosarcoma, myxosarcoma, squamous cell carcinoma, hemangiosarcoma, other. Theoretically granulomatous disease is a consideration, but the odds are very low. FNA sampling ± biopsy can be used as advanced diagnostic test.

**SEX**      The enlarged mandibular lymph nodes and the pulmonary changes indicate metastatic spread.

FS

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6 Years

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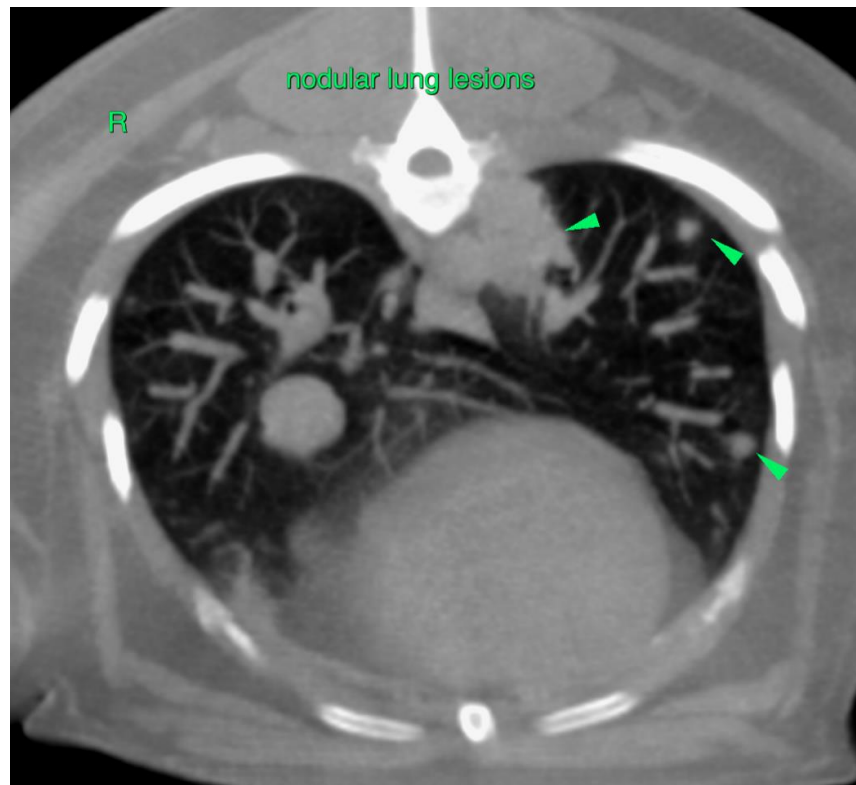
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**PATIENT**

Esmeralda Figueroa

**SPECIES**

Canine

**BREED**

Mixed Breed

**SEX**

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**AGE**

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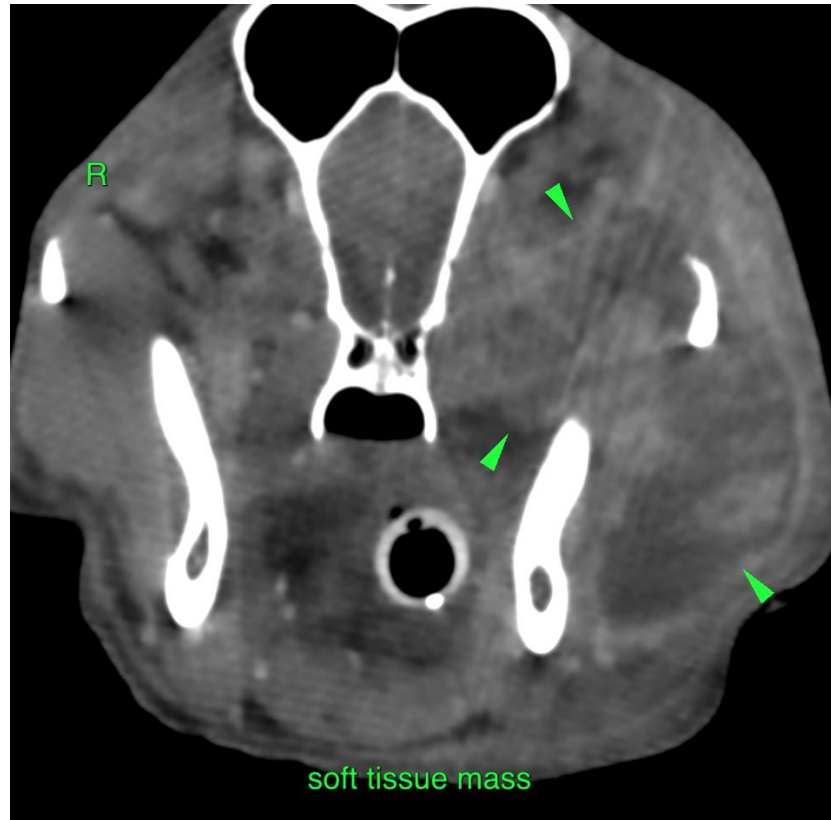
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**INVOICE**

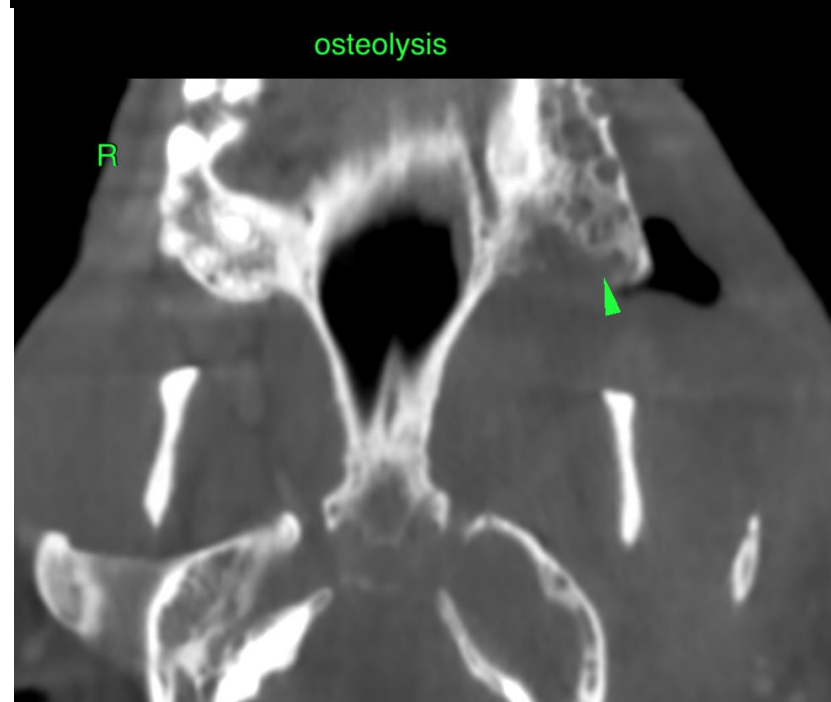
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soft tissue mass



osteolysis



**PATIENT**

Esmeralda Figueroa

**SPECIES**

Canine

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.

**BREED**

Mixed Breed

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**SEX**

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**AGE**

6 Years

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