



**PATIENT**

Belle Eppley

**PRESENTING CLINICAL SIGNS**

Grade 2 lame r front,G3 lame after exam sore to palp proximal humerus shoulder rads - suspect Osteosarcoma  
Abnormal PE/Chem/CBC/UA Results: BW NR

**SPECIES**

Canine

**RADIOGRAPHIC STUDY OF THE SHOULDER JOINTS AND THORAX**

Radiographs of the thorax in three imaging planes and the shoulder joints in two imaging planes are provided for review.

**BREED**

Labrador Retriever  
Mix

**RADIOGRAPHIC FINDINGS**

Thorax

The surrounding bony structures are within normal limits.

The extrathoracic soft tissues present homogeneous without abnormalities.

**SEX**

Spayed F

The heart is of normal size and shape, there is no evidence of cardiac chamber or vascular enlargement. The pulmonary vasculature is within normal limits.

**AGE**

7 Years

The cranial mediastinum presents the expected soft tissue opacity. The mediastinal width is less than twice the width of the vertebral column at the same level.

The trachea is normal in diameter and presents the anticipated course. The luminal outline of the trachea is smooth.

**INTERPRETED BY**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

The bronchial tree presents with thin walls and tapers uniformly towards the periphery as expected.

Level with the 7<sup>th</sup> intercostal space, superimposing with the ventral aspect of the lung, a well-defined, mild irregular marginated soft tissue opaque nodule is seen, measuring 5 mm in diameter. The remainder of the lung parenchyma present the expected architecture and opacity; the intrapulmonary vascular branching is seen up to the third order lung vessels.

**HOSPITAL NAME**

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CENTER

The diaphragm is well delineated with even surface and the expected mild cranial bulging of the diaphragmatic cupola.

Shoulder joints

**REFERRING VET**

Dr. Samatha Tomson

The left shoulder joint presents smooth osseous margins and without abnormalities of the surrounding soft tissue structures, unremarkable.

The right humeral head is superimposing with the manubrium sterni. The right proximal humeral metaphysis presents an ill-defined zone with mild heterogeneous opacity of the bone. The caudal margin of the right proximal humeral metaphysis is mildly blurred, and fuzzy mineralized material is appreciated directly caudal to the proximal humeral metaphysis.

**INVOICE**

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**RADIOGRAPHIC DIAGNOSIS**

- Immature periosteal new bone formation caudal aspect right proximal humeral metaphysis
- Possible solitary pulmonary nodule left caudal lung lobe

**DATE**

8-11-22



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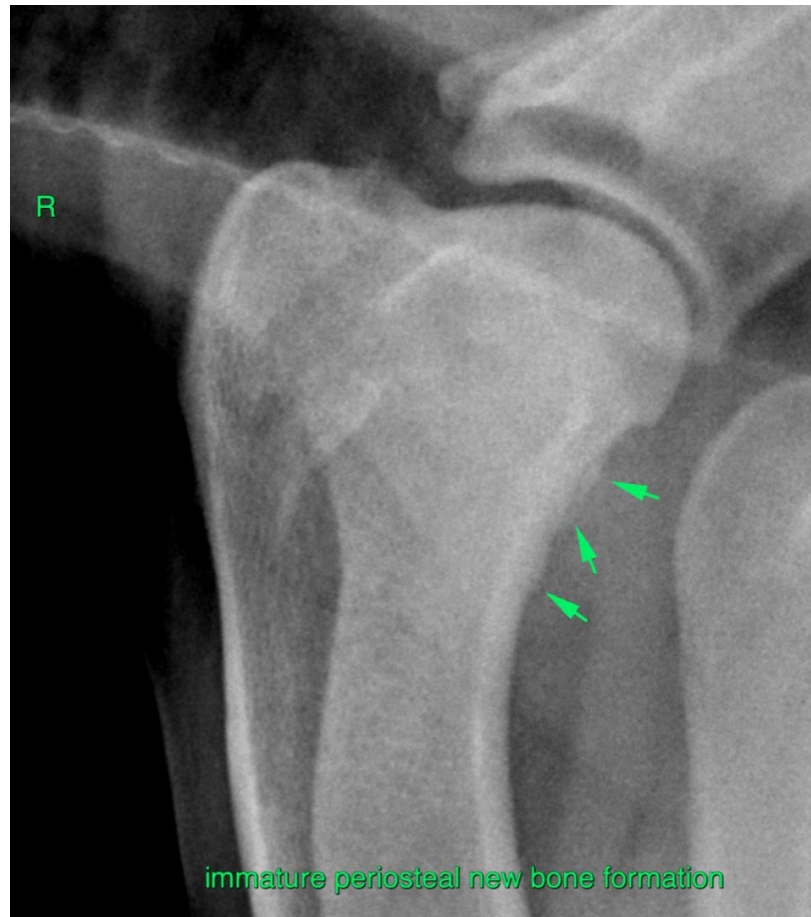
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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The findings are supporting the diagnosis of early stage of aggressive bone lesion of the right proximal humerus with mild immature periosteal new bone formation. The periosteal new bone formation is best seen on the left lateral view of the thorax, as in the mediolateral projection, the shoulder joint is superimposed on the manubrium sternia and superimposition with the costal cartilage/manubrium may artefactual cause impression of periosteal new bone formation/heterogeneity of the osseous structure. Consider FNA sampling or bone biopsy to confirm the diagnosis. In case of doubt, recommend repeating the mediolateral view of the right proximal humerus with the shoulder joint pulled cranioventrally to avoid superimposition with osseous and gas containing structures.

The nodule lesion appreciate in the left lateral view is not definitive for metastatic disease and can be caused by summation of overlying soft tissues.





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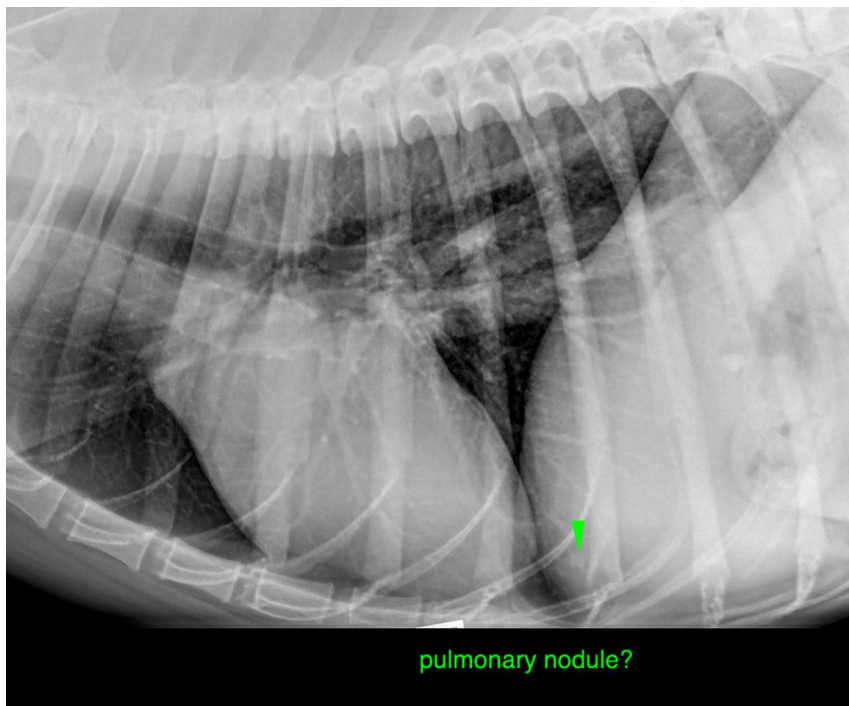
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**SPECIES**

Canine

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.

**Sebastian Schaub**, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI  
sebast.schaub@gmail.com

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