



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Benno Caldwell **PRESENTING CLINICAL SIGNS** History: About 4-5 days ago Benno started to limp on his R front. Tony (owner) mentioned that Benno seems the most painful around his toes. Our concern is that there is more going on besides the toe injury because of the muscle atrophy.

**SPECIES** Canine **SPECIES** Abnormal PE/Chem/CBC/UA Results: 3/5 RT. FRONT LAME, ATROPHY OF MUSCLES IN THE LIMB, D4 WITH AXIAL SIDE SWOLLEN AND RED AS IF ABSCESS OR FORIEGN BODY.

**BREED RADIOGRAPHIC STUDY OF THE FORE LEGS**

**BREED** German Shepherd **RADIOGRAPHIC STUDY OF THE FORE LEGS** The muscles of the right upper leg appear to be slightly reduced. The bones are well mineralized, have a normal trabecular structure and smooth, continuous surfaces. Cortical-medullary development and differentiation of the long bones are physiological.

**SEX** Neutered Male **Shoulders** The shoulder joints appear congruent with even subchondral bone surfaces. The proximal bicipital groove of the left shoulder joint appears sclerotic on one view.

**AGE** 4 Year 10 Months **Elbows** The elbow joints are congruent with smooth subchondral and periosteal bone surfaces. Joint swelling is not apparent.

**INTERPRETED BY** Heike Rudolf, DVM, Dr. med. Vet., DipECVDI DVR **Capri with Paws** A smoothly marginated, soft tissue swelling surrounds P2 and P3 of digit 3. A radiopaque foreign object is not apparent. A rudimentary first digit is present bilaterally. The sesamoid bones are symmetrical and physiological. All joints are congruent. No bony reaction is associated with the soft tissue swelling.

**HOSPITAL NAME** Elizabeth AH **RADIOGRAPHIC DIAGNOSIS**

- REFERRING VET** Leon Anderson, DVM
- Soft tissue swelling distal digit 3 on the right
  - Muscle atrophy right humerus
  - Sclerosis left bicipital groove

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INVOICE** 15874 **INVOICE** Differential diagnoses for the digital pathology include hemorrhage and edema due to trauma, radiolucent foreign body such as a migrating grass seed, nail bed infection, soft tissue tumor (unlikely due to the smooth surface). Ultrasonographic examination of the swollen area can help detect fluid and a possible foreign body.

**DATE** 6/3/22



**PATIENT**

Benno Caldwell

The loss of muscle mass could be the result of a chronic, low grade lameness due to the slowly developing swelling, but brachial plexus pathology (inflammation, tumor) has to be considered. Cross sectional imaging is the best way to assess the nerves that form the plexus and, should the muscle loss not stagnate after treatment of the digital pathology, contrast CT or MRI is recommended.

**SPECIES**

Canine

Sclerosis of the left bicipital groove is most likely not significant, but ultrasound of the bicipital tendon can help identify fiber disruption.

**BREED**

German Shepherd

**SEX**

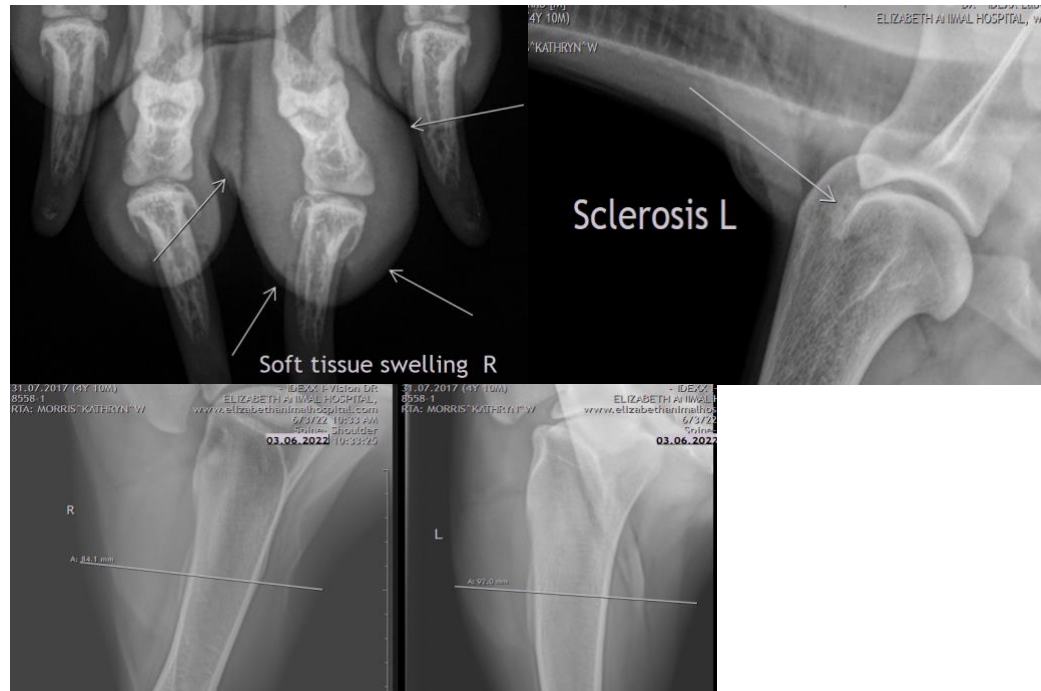
Neutered Male

**AGE**

4 Year 10 Months

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Heike Rudolf, DVM,  
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DipECVDI DVR



**HOSPITAL NAME**

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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.**

**REFERRING VET**

Leon Anderson, DVM

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.

**Heike Rudolf**, DVM, Dr. med. vet., DipECVDI, DVR  
dr.h.rudorf@gmail.com

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