



**PATIENT**

Phineas Birnie-Colbert

**PRESENTING CLINICAL SIGNS**

Phineas, a 3 year old Male Neutered , was presented to the Toronto Animal Health Partners Surgery Service for evaluation of right forelimb lameness and history of fragmented coronoid process. The lameness has been noticed since they adopted him from a rescue in Feb 2022. He is a rescue from Turkey. Is noted to be head shy from referring veterinarian records but otherwise very easy to work with and treat motivated. At referring veterinarian the physical exam noted RFL weight bearing lameness, head bob, thickening and mild crepitus of the carpus, reluctant to let doctor manipulate elbow. Owner said that he was injured when in Turkey but uncertain of how or what was done to repair it (the rescue had said the injury had been fixed previously). Area of interest: elbows and pelvis

**SPECIES**

Canine

**BREED**

Mixed Breed Medium

**COMPUTED TOMOGRAPHIC STUDY OF THE ELBOWS & PELVIS**

Plain studies in soft tissue and bone windows of the elbows and pelvis available for review.

**SEX**

MN

**COMPUTED TOMOGRAPHIC FINDINGS**

**Elbows**

The right front limb presents significant muscle atrophy.

**AGE**

3 Years, 1 Month

The right elbow joint is incongruent with caudal subluxation of the radius, asymmetry of the humeroulnar joint space, and collapse of the medial aspect of the humeroradial joint space. Subchondral bone sclerosis is seen as well as multicystic changes and a moderate amount of new bone in the periarticular margins. A large amount of smooth new bone is seen in the caudal contour of the radius and cranial contour of the ulna which appears to be intertwining in the proximal third of the radius and ulna. 15 degrees cranial curvature of the proximal ulna is seen. The medial coronoid process presents deformity, but no fragmentation or fissuring is seen.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

The left elbow presents within normal limits.

**HOSPITAL NAME**

Animal Health Partners

**Pelvis**

Both coxofemoral joints present within normal limits. There is no evidence of dysplasia, osteoarthritis, or traumatic osseous injury.

**REFERRING VET**

Lea Mehrkens

The muscle volume of both hind limbs is adequate and symmetric.

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**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Proximal right radioulnar synostosis with angular limb deformity and subluxation of the elbow.
- Moderate secondary osteoarthritis of the right elbow and compartment syndrome of the humeroradial joint space.
- Disuse atrophy of the right front limb musculature.

**DATE**

5-13-22

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The CT study reveals angular limb deformity in the right front limb with proximal radioulnar synostosis, cranial curvature of the radius, subluxation of the elbow joint, and compartment syndrome. Moderate secondary osteoarthritic changes are seen. Prior trauma is the most likely



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underlying cause of the CT changes; however, developmental malformation cannot be ruled out entirely as a differential diagnosis. The changes are not compatible with hereditary medial coronoid pathology and septic or immune mediated arthropathy is considered very unlikely based on the CT findings.

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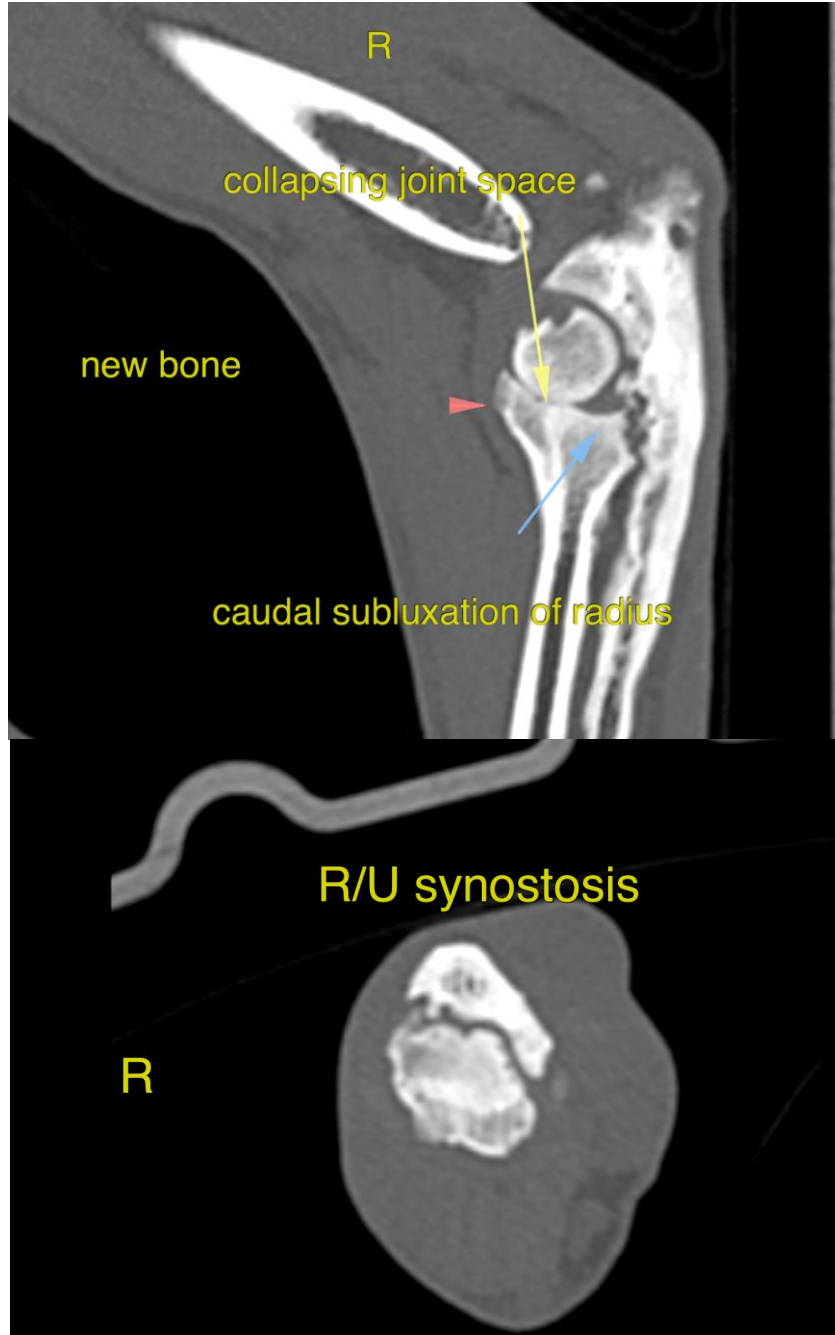
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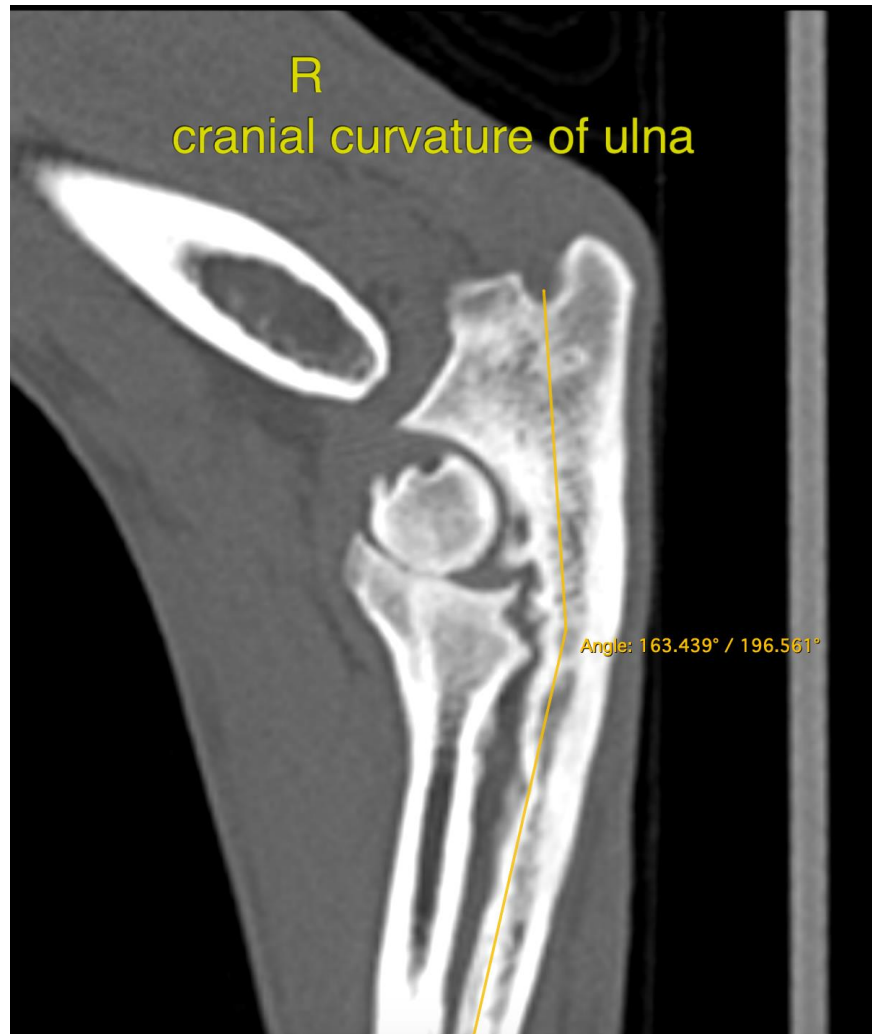
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

**Nele Eley**, DVM, Dr. med. vet., DipECVDI  
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