



California Animal Health & Food Safety Laboratory System

105 W. Central Avenue
San Bernardino, CA
92408-2113

Final
Version 1

This report supersedes all previous reports for this case

CAHFS Case #:
Referral #:
Date Collected: 05/01/2010
Date Received: 05/03/2010
Case Coordinator: F.A. Uzal, DVM, MSc, PhD, Dipl ACVP
Electronically Signed and Authorized By: Uzal, Francisco A. on 5/27/2010 5:09:59PM

Email To:
UZAL, FRANCISCO
fuzal@cahfs.ucdavis.edu

Incident Track:
SANTA ANITA RACETRACK
285 West Huntington Road
Arcadia, CA 91007

Comments: Hand

Case Contacts

Attending Vet AGNIS, HEIDI
Bill To CALIFORNIA HORSE RACING BOARD
Report To UZAL, FRANCISCO
Report To ARTHUR, RICK M
Submitter BAILEY, JILL
Trainer FRAZIER, WALTER

[Redacted contact information]

CHRB - Related Information

Horse's Name:
Tattoo:
Age: 5.00 Years
Gender: Neutered Male
Taxonomy: Thoroughbred Horse
Human Injury? N
Death Related to: Training
Track Surface: Synthetic
Location on Track: 1/2 mile pole, main track
Insured? N

Medications: Banamine (Flunixin); Butazolidin (Phenylbutazone); Solu-delta-cortef (Prednisolone); Torbugesic (Butorphanol);

Laboratory Findings/Diagnosis

Thoroughbred gelding, history of right humerus fracture:

Right front leg

Thoroughbred gelding, history of right humerus fracture:

Right front leg

A-Catastrophic humerus breakdown with:

- 1-Fracture of humerus, distal epiphysis, close, comminuted, transverse, complete and articular
2-Cartilage erosion of proximal articular surface of radius, multifocal, acute
3-Tearing of articular capsule of elbow joint, incomplete, acute
4-Hemarthrosis of elbow joint, acute
5-Hemorrhage of muscles surrounding elbow joint, focally extensive, acute, severe

B-Chronic, pre-existing lesions

1-Proliferative cartilage lesion on dorsal aspect of distal articular surface of third carpal bone, focally extensive, chronic

Left front leg

A-Fraying and hemorrhage of medial branch of suspensory ligament, focally extensive, incomplete, with chronic hemorrhage

Visceral organs

A-Gastric ulcers, pars esophagea, small, irregular, shallow, multifocal, chronic-active

Case Summary

5/7/10: this horse had a catastrophic humeral fracture. The fractured and the contra lateral humeri are being send to Dr Sue Stover at UC Davis for a second opinion. The medial branch of the suspensory ligament of the left leg was acutely frayed and had severe hemorrhage. Special stains are currently under way to determine the nature of the pigment observed.

5/27/10: Special stains of sections of the suspensory ligament showed that this tissue had hemosiderin, indicating the occurrence of chronic hemorrhage. This concludes testing in this case.

Clinical History

Right humerus fracture, finish 2nd "speed" interval "race" when broke down. Brokedown during filming show at Santa Anita - "HBO-Luck". Filming at night.

Gross Observations

Necropsy of a 463 kg Thoroughbred gelding with began at 9 am on May 3rd, 2010.

The carcass was in good nutritional condition, with adequate amount of fat reserves, well fleshed and in moderate state of post-mortem decomposition.

Right front leg

1-Fracture of humerus, distal epiphysis, close, comminuted, transverse, complete and articular. Distally, two lines of fracture crossed the medial and lateral condyles. In addition, a third line of fracture divided the lateral condyle in two

2-Cartilage erosion of proximal articular surface of radius, multifocal, acute

3-Tearing of articular capsule of elbow joint, incomplete, acute

4-Hemarthrosis of elbow joint, acute

5-Hemorrhage of muscles surrounding elbow joint, focally extensive, acute, severe

6-Proliferative cartilage lesion on dorsal aspect of distal articular surface of third carpal bone, focally extensive, chronic

Left front leg

1-Fraying and hemorrhage of medial branch of suspensory ligament, focally extensive, incomplete

No other significant gross abnormalities were observed in either of both front legs, examined distal to the shoulder.

The stomach presented a few, small (~ 0.5 cm diameter), irregular, shallow ulcers on the pars esophagea, close to the margo plicatus.

No other significant gross abnormalities were observed in the rest of the carcass. In particular, no gross abnormalities

were seen in the larynx.

Histology

Sections of stomach, small intestine, colon, heart, kidney, spleen, lung, adrenal gland, liver, suspensory ligament (left front leg) and skeletal muscle are examined.

Changes found:

1-Suspensory ligament: hemorrhage, acute, focally extensive, separating the fibers of the ligament. Brown pigment is seen surrounding small blood vessels.

Special stains to follow.

Addendum: Pearl's stained sections of the suspensory ligament stained positive.

Appendix - Report Related Images

CAHFS AOC # [REDACTED]
 WORL # [REDACTED]
 Date 5-3-10
 Signature FW

Fracture Description: Check as appropriate

- Nature:**
- Open Close
 - Simple Comminuted
 - Complete Incomplete
 - Displaced Non-displaced
 - Articular Non-Articular

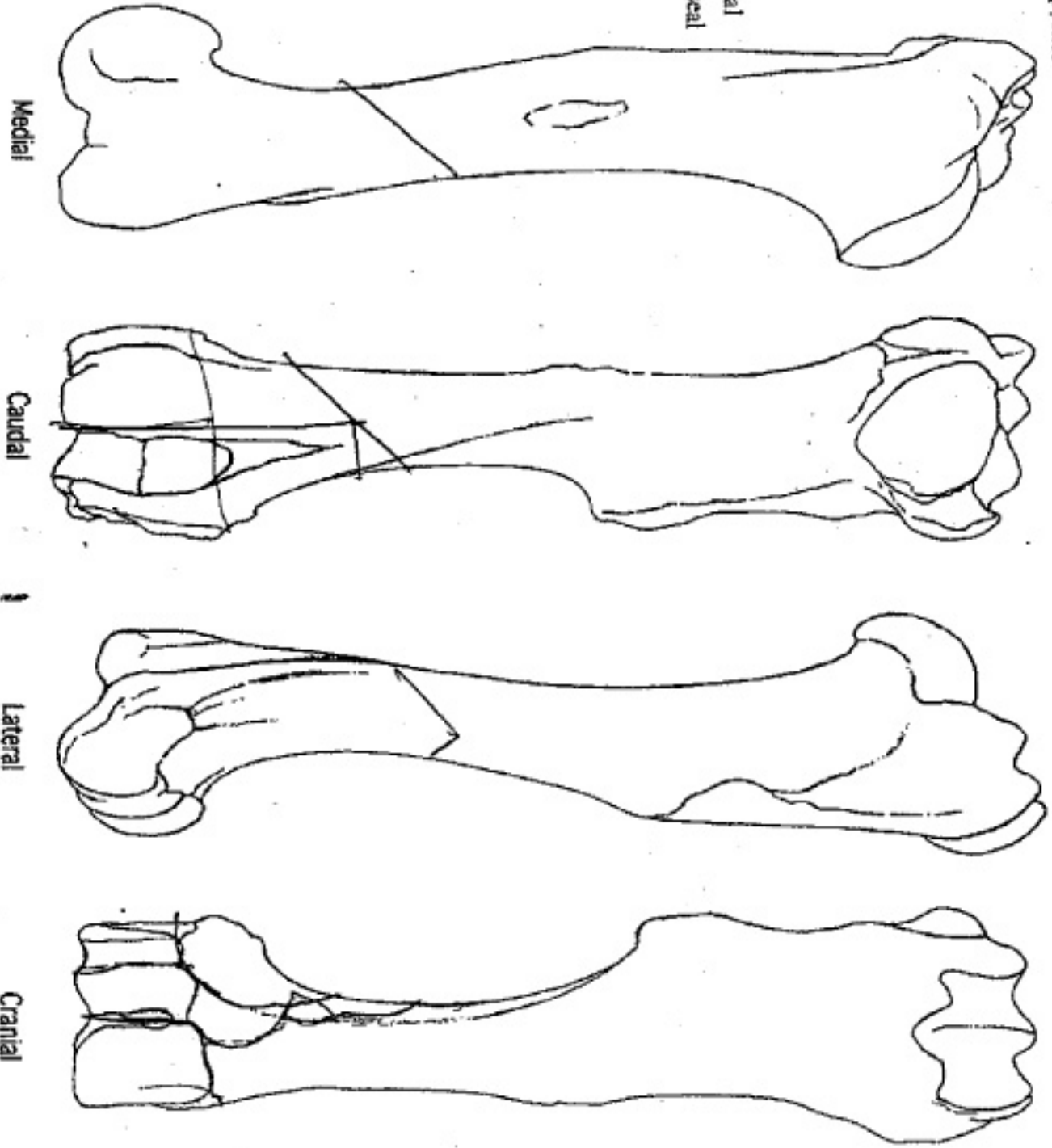
- Location:**
- Proximal Physcal Distal Epiphyscal
 - Proximal Physcal Distal Metaphyscal
 - Proximal Metaphyscal Distal Physcal
 - Diaphyscal
 - Condylar - M. ___ cm
L. ___ cm

- Configuration:**
- Axial (longitudinal)
 - Transverse Butterfly
 - Spiral Oblique
 - Segmental

- Direction:**
- Craniodistal-Caudoproximal
 - Caudoproximal-Craniodistal
 - Proximolateral-Distomedial
 - Distomedial-Proximolateral
 - Other

- Pre-existing fx:**
- Yes
 - No
 - Unable to evaluate

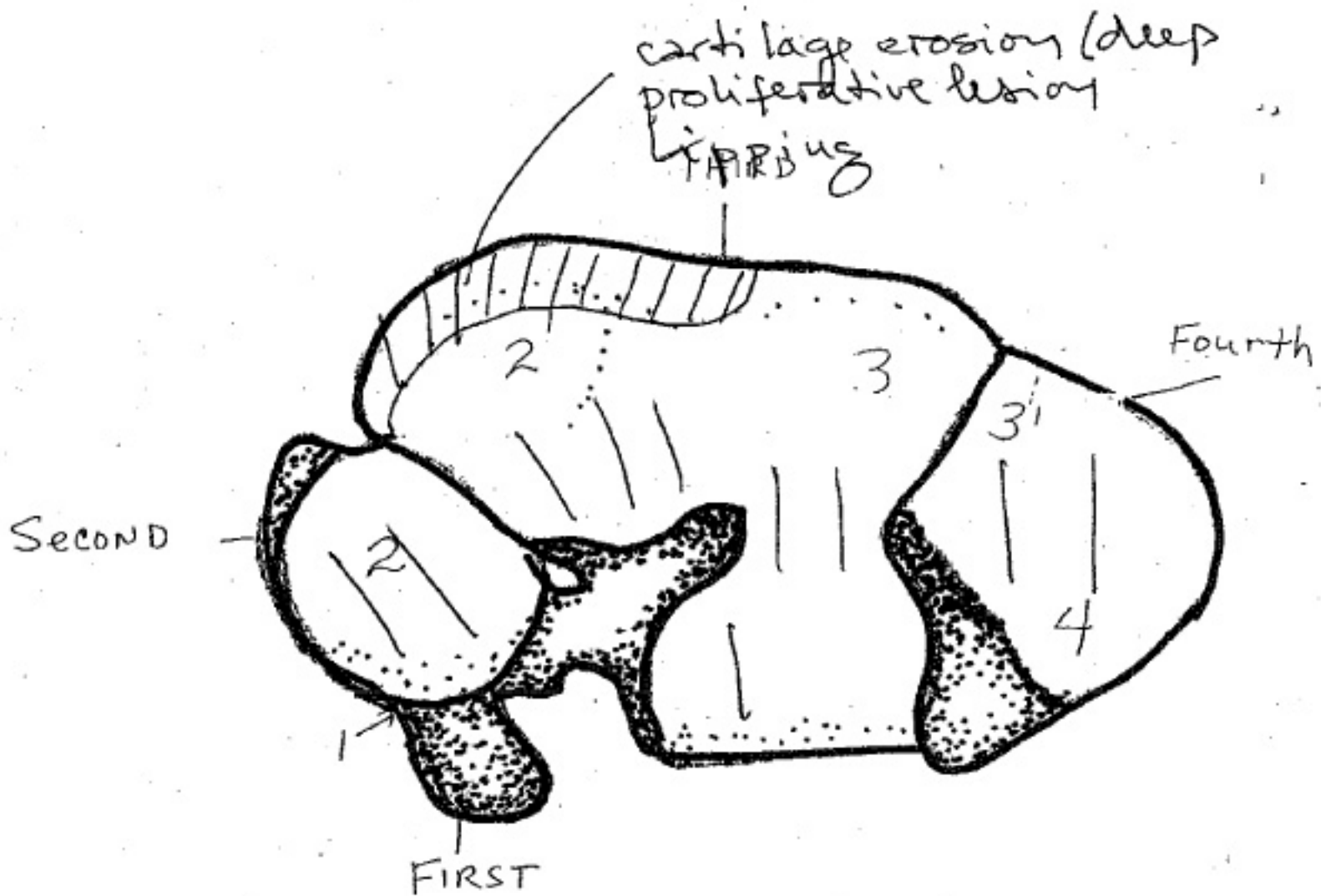
Dimensions:
 Missing piece (gap) ___ cm



Drawings are approximate
RIGHT HUMERUS

1/21/04

Appendix - Report Related Images



DISTAL ROW OF RIGHT CARPUS OF HORSE
PROXIMAL VIEW