



Wheat Ridge
Veterinary Specialists

internal medicine

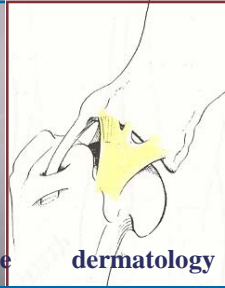
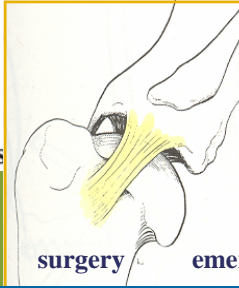
surgery

emergency & critical care

dermatology

radiology, ultrasound & CT scan

Expertise You Can Trust.

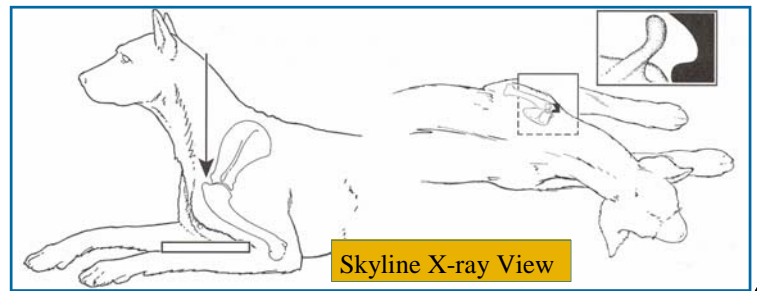


Shoulder • Supraspinatous Tendon Inj.

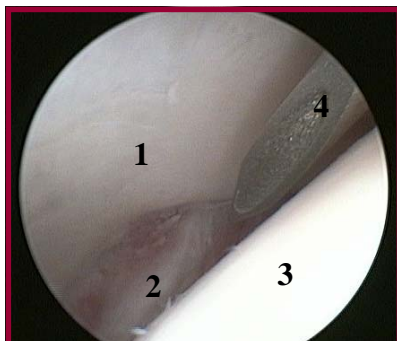
Dystrophic mineralization of the tendon of insertion of the Supraspinatous muscle is thought to be a response of the tendon to a traumatic injury. This condition can result in a subtle but chronic, intermittent to constant, thoracic limb lameness. Arthroscopic evaluation of the shoulder joint and Biceps tendon is often advised to rule out other causes for lameness. Radiographic evaluation of the shoulder includes a skyline view (as seen below) of the biceps groove. Surgical excision of the mineralized density and injured portion of the tendon is usually curative (see



Cranial scope view of the shoulder showing a normal Biceps Tendon (BT).



Skyline X-ray View



Lateral scope view of the shoulder showing a healthy: 1) glenoid articular surface, 2) medial collateral ligament, 3) humeral articular surface, and 4) the egress cannula.



Lateral shoulder x-ray showing a mineralized density within the insertion of the supraspinatous tendon.



Caudal scope view of the shoulder showing a healthy: 1) caudal humeral and 2) glenoid articular surfaces.



Postoperative x-rays documenting removal of the mineralized density.



Pathology Report

PATIENT: [REDACTED]

REQ #: 3132384

LAB #: P1461049

AGE: 4 SEX: F

COLLECTED: 11/14/2001

SPECIES: CANINE

RECEIVED: 11/15/2001 01:27

BREED: LAB

REPORTED: 11/16/2001 15:48

DOCTOR: PETERSEN, S

TEST PROCEDURES

RESULTS

REFERENCE RANGE UNITS

BIOPSY with microscopic (1 tissue)

SOURCE/HISTORY

TISSUES FROM A FEMALE SPAYED 4-YEAR-OLD LABRADOR WITH A CLINICAL HISTORY OF SUPRASPINATUS TENDON MINERALIZATION.

MICROSCOPIC DESCRIPTION

THREE PORTIONS OF TENDON, ASSOCIATED SKELETAL MUSCLE, AND FIBROADIPOSE TISSUE ARE EXAMINED. WITHIN THE TENDON THERE ARE AREAS OF LINEAR FIBROCARTILAGINOUS METAPLASIA CHARACTERIZED BY THE PRESENCE OF DISPERSE CHONDROCYTES WITHIN LACUNAE EMBEDDED INTO BASOPHILIC CARTILAGINOUS MATRIX. SURROUNDING AREAS OF CARTILAGE DIFFERENTIATION, THERE ARE BUNDLES OF DENSE MATURE COLLAGENOUS TISSUE.

DIAGNOSIS

TENDON: MULTIFOCAL TO COALESCING CARTILAGINOUS METAPLASIA

COMMENTS

CARTILAGINOUS METAPLASIA OF THE TENDONS IS A PROCESS OFTEN SEEN IN AREAS OF TENDON DAMAGE OR ANATOMIC WEAKNESS. THESE AREAS OFTEN RECEIVE DISPROPORTIONATE STRETCH FORCES WHICH INDUCE THE TRANSFORMATION OF THE FIBROBLASTIC CELLS OR MYOFIBROBLASTS INTO CARTILAGE-PRODUCING CELLS. HOWEVER, CHANGES OF CARTILAGINOUS METAPLASIA ARE ALSO PRESENT IN NORMAL, HARMLESS TENDONS WITH NO CLINICAL SIGNS EVIDENT. IN THIS CASE, IF THERE ARE CLINICAL SIGNS ASSOCIATED, HISTORY OF EXTERNAL TRAUMA, OR ANATOMIC MALFORMATION SHOULD BE CONSIDERED.

PATHOLOGIST

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FRI:rlp

LAMMAY, SIERRA

*** FINAL REPORT ***

BATCH #: 005

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