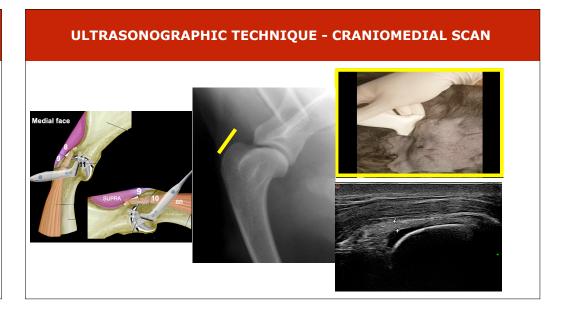
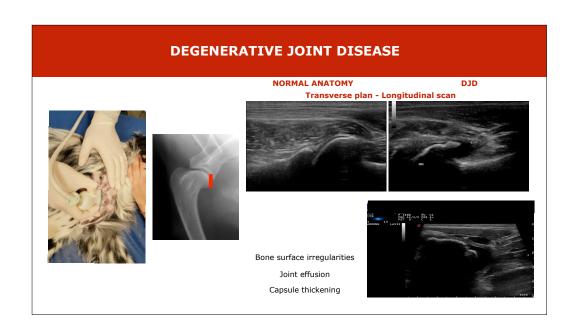
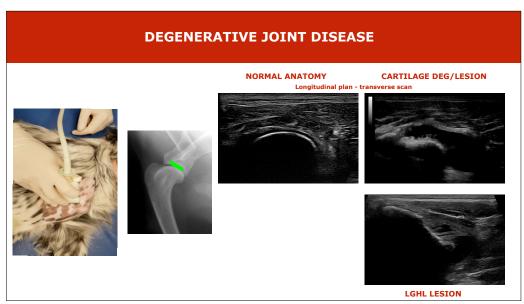


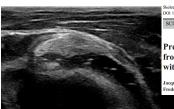
ULTRASONOGRAPHIC TECHNIQUE - CRANIOMEDIAL SCAN







SYNOVIAL FLUID - CAVITATION



Anechoic

Homogeneous Heterogeneous

SCIENTIFIC ARTICLE

Presumed intraarticular gas microbubbles resulting from a vacuum phenomenon: visualization with ultrasonography as hyperechoic microfoci

Jacques Malghem • Patrick Omoumi • Frederic E. Lecouvet • Bruno C. Vande Berg

In conclusion, we showed that the intraarticular vacuum phenomenon related to traction maneuvers could generate a hyperechoic band in the joint cavity. We also showed that this transient phenomenon could lead to intraarticular hyperechoic microfoci that likely corre-spond to gas microbubbles and that can persist in the synovial fluid after traction on the joint is stopped. These phenomena can be observed in normal joints and are not necessarily pathological.









BORG English Setter, M, 9.5 months

Shoulder lameness II

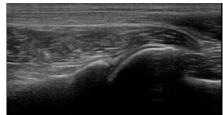
Progressive lameness

Pain caudal shoulder palpation

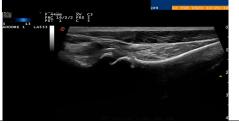


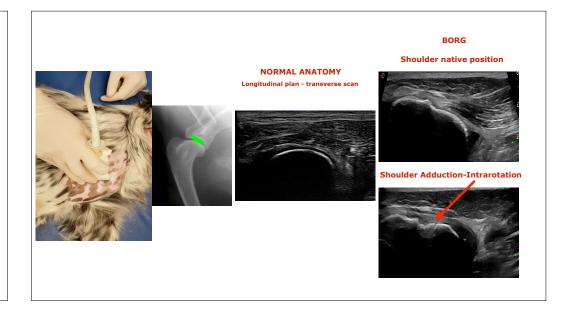


NORMAL ANATOMY Transverse plan - Longitudinal scan



BORG





OSTEOCHONDROSIS

COMPARISON OF THE ULTRASONOGRAPHIC APPEARANCE OF OSTEOCHONDROSIS LESIONS IN THE CANINE SHOULDER WITH RADIOGRAPHY, ARTHROGRAPHY, AND ARTHROSCOPY

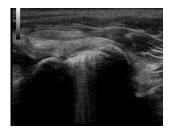
Barbara Vandevelde, Bernadette Van Ryssen, Jimmy H. Saunders, Martin Kramer, Henri van Bree Veterinary Radiology & Ultrasound, Vol. 47, No. 2, 2006, pp 174–184.

Table 2. Cartilage at the Level of the Defect: Arthroscopy vs. Ultrasound and Arthrography (n=29)

Arthroscopy	Ultrasonography	Arthrography
Loose cartilage	Loose cartilage flap: 18	Loose cartilage flap: 18
flap $(n = 20)$	Inconclusive: 1	Normal: 1
/	Nondiagnostic: 1	Nondiagnostic: 1
Normal $(n=6)$	Loose cartilage flap: 1 Thickened cartilage: 5	Normal: 6
Chondromalacia (n = 2)	Inconclusive: 2	Normal: 2
Scar tissue $(n=1)$	Inconclusive: 1	Normal: 1

- Describing technique and the US appearance of lesions
- Describing **limits** of ultrasound (experience, patient position, anatomy)
- Identifying non mineralized cartilage flaps of OCD lesions

OSTEOCHONDROSIS on ULTRASOUND





Second hyperechoic line at the bottom of the subchondral defect

Localizing joint mice

Join effusion

DJD

OSTEOCHONDROSIS/OCD

DIAGNOSTIC SENSITIVITY OF RADIOGRAPHY, ULTRASONOGRAPHY, AND MAGNETIC RESONANCE IMAGING FOR DETECTING SHOULDER OSTEOCHONDRISS/OSTEOCHONDRITIS DISSECANS IN DOGS

Corey R. Wall, Cristi R. Cook, James L. Cook

Vet Radiol Ultrasound, Vol. 00, No. 0, 2014, pp 1-9.

- US in the diagnostic approach to OC/OCD of the humeral head is recommended only as an ancillary modality
- US clinically useful for ruling in the presence of **fragments**
- US clinically useful for determining the **absence** of OC/OCD lesions
- US high Sensitivity (90%) but low Specificity (60%)



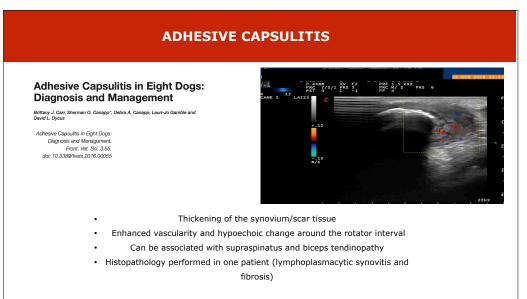
HOGAN Greyhound, F 4 years old

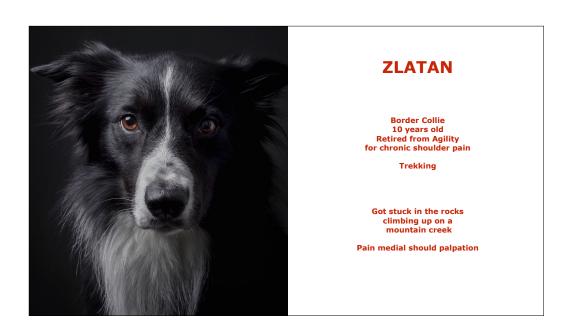
Coursing

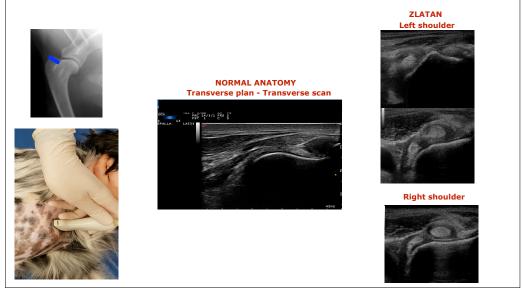
Poor performances

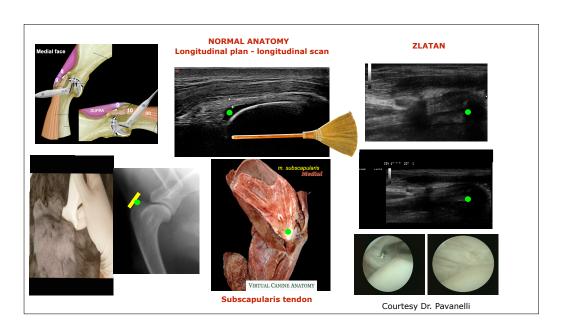
Pain at palpation of caudal shoulder region



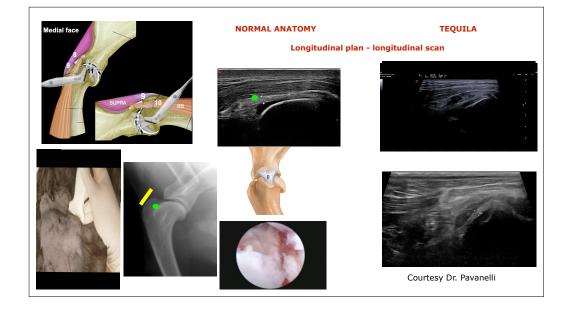












SHOULDER MEDIAL COMPART

- Medial glenohumeral ligaments can be sometimes visualized (Cogar et al 2008)
- US may lead to a suspect diagnosis
- Impossible to recognize each anatomical structure as a separate structure
- Fluid-fillment of medial recess
- US findings must be related to clinical signs and arthroscopy
- Need for evidence

SHOULDER MEDIAL COMPART

Treatment of medial shoulder joint instability in dogs by extracapsular stabilization with a prosthetic ligament: 39 cases (2008–2013)

Erica M. O'Donnell DVM
Sherman O. Canapp Jr DVM, MS
James L. Cook DVM, PhD
Fred Pike DVM

JAVMA • Vol 251 • No. 9 • November 1, 2017

Most common US findings:

Thickening of the medial aspect of the joint capsule and tissue (n=15) MGL abnormalities (n=9)

BT effusion or synovitis (n=16)

Alterations of subscapularis (n=11), supraspinatus (n=5), infraspinatus (n=1)

Thickening of the lateral aspect of the capsule (n=3)

of the lateral aspect of the capsule (n= Joint effusion (n=3)

