



### Complaint/History

- ➤ Right front leg acute lameness (4/5) the day following a competition (lunged in the morning) with no apparent swelling present, one month ago
- Horse was very sensitive to flexion of right front fetlock
- No significant findings on radiographs of right front fetlock
- ➤ Horse treated with intra-articular injection of right front fetlock, pastern and digital interphalangeal joints over 2 weeks and given 2 weeks rest – minimal improvement

Clinical Examination  Dynamic Examination:	
Dynamic Examination:	
Diagnostic Approach	
Results of distal digital (PD) nerve analgesia:  > Improved lameness in straight line 90%  > Right front lower leg flexion test – slight positive (1+/5)	
Diagnostic Approach	
> Right front proximal digital (AB) nerve analgesia	

# Diagnostic Approach

Results of proximal digital (AB) nerve analgesia:

- ➤ No lameness right front
- Right front lower leg flexion test – negative



# Radiographs - Results

- ➤ No significant findings
- ➤Owners elected MRI



# Diagnostic Approach - MRI 1.5T MGDPC 1.5T M

#### MRI - Results

Tear of straight distal sesamoidean ligament – proximal lateral aspect beginning near the pastern joint and extending proximally in excess of 2 cm at the level of mid-diaphysis of P1 and out of the area included in the field of view





#### Diagnostic Approach - Ultrasonography





#### Conclusion - Treatment

Surgical treatment/Local treatment

Ultrasound guided injection of platelet rich plasma (PRP) 60% and bone marrow aspirate (BMA) 40% intralesionally into multiple sites





# Conclusion - Treatment Programme To the Market Hall Selection From The Market Selection From Th

# Conclusion - Management

#### Physical Activity:

- > 30 days stall rest with hand walk, then
- ▶ 60 days small paddock (60'x 60'), then
- ▶ 60 days large paddock (120'x 120'), then
- > 60 days ponying at walk/trot (starting at 5 minutes and adding 5 min/week), then
- > 60 days with added canter



# Conclusion - Management

#### Shoeing:

- Balanced and regular intervals
- Do not allow excessive heel growth/height
- Do not extend shoe heels caudally fit shoe tight to heels
- > Straight sesamoidean ligament is part of the suspensory apparatus



#### Conclusion - Follow-up & Treatment

#### Follow-up:

Clinical and Ultrasonographic examination initially at 30 day, then at 60 day intervals

#### Treatment:

ECSW - 60 days post surgery start three (3) treatments at 2 week intervals then treat once (1) monthly for 4 treatments



#### Follow-up 3 months



#### Discussion

Etiopathogenesis – likely hyperextension of fetlock joint but there must be some weakening over time (repetitive damage) prior to an acute overload

Prognosis – following time period of 8-10 months, the possibility of this horse returning successfully to her previous level of competition is dependant on how rapidly she is pushed to perform; she will need a gradual increasing program of exercise load that allows the tissues to develop strength over time.

# Abby 8 yr old, Polo Pony (TB) Mare Polo

# Complaint – History

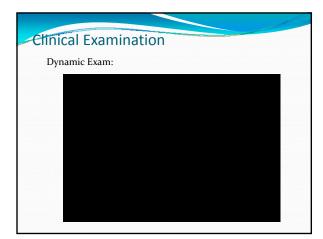
☞ Right front lameness

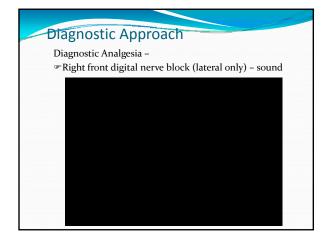
#### History:

- ☞ 10 days ago, non-weight bearing during game
- Improved with rest and played 24 hours ago but now sore on leg

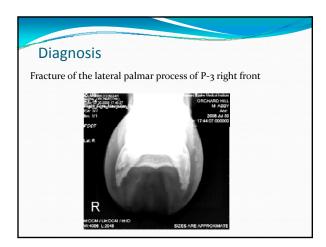
#### Activity:

- ☞ Plays twice weekly (12-20 goals)
- Pastured during day









#### Management

Corrective shoeing:

☞ Bar shoe with pour in soft acrylic

Physical activity:

- ☞ Stall rest 45 days, then
- ☞ Small paddock for 75 days

Followup Radiographs:







#### Discussion - Etiopathogenesis

- ${}^{\hspace{-.2cm} P}$  Hard turn and overload of lateral wing of  $P_{-3}$
- Direct trauma from mallet to lateral palmar wall of hoof





#### **Prognosis**

- FExcellent with adequate rest and utilizing hoof capsule as stabilizing mechanism – return to preinjury condition
- ☞ Possible unstable fibrous union could result in persistent low grade lameness





#### History/Complaint/Examination

- Right hind lameness following 3 weeks of showing on the spring circuit
- Thorse was purchased 10 months previously
- Competed successfully throughout fall circuit (2 months) and winter circuit (4 months)

#### Physical Exam:

- Fight hind thickened proximal MT region (medial)
- Reactive to palpate right hind proximal SL (medial)
- Sensitive to palpate right sacroiliac region

#### Clinical examination

• Dynamic exam:

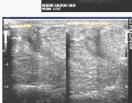


#### Diagnostic Approach



#### Ultrasonography

- Enlarged crosssectional suspensory ligament
- Bony remodeling plantar MT 4





#### Diagnostic Approach - MRI







- Thickened proximal suspensory ligament with areas of chronic injury (low signal intensity)
- Lateral aspect suspensory ligament desmitis (high signal intensity)
- Sclerosis of MT 3 more apparent medial attachment of suspensory ligament

#### Management - Treatment

#### Focal Treatment:

- ☞ Injection with Depo-Medrol, Traumeel & Sarapin
- FESWT- every 10 − 14 days for a total of 4 treatments
- ☞LITUS treatment 4days/week

#### $Systemic\ Treatment:$

- ☞Tildren IV for 10 days
- Firocoxib for 21 days

#### **Topical Treatment:**

➤ Surpass (diclofenac) for 10 days

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#### Management-Shoes

#### Principle:

Increase tension on DDFT for support of fetlock to decrease tension on the suspensory apparatus

#### Practice:

- •Widen toe region
- •Narrow branches of shoe
- •Minimal heel support



#### Management-Exercise

#### Physical Activity:

- Hand walk (15-30 min/day) and small paddock rest (1-3 hours/day) for 30 days
- 2. Hand walk, flat treadmill (30 min/day) and small paddock for 2 weeks
- 3. Flat treadmill, tack ride at walk (20-30 min/day), short periods of trot 3X/week and small paddock for 2 weeks
- 4. Start adding 5 minutes of trot every week up to 30 min. for 60 days
- Add canter

Shoes: Closely fit, narrowed heel

#### **Prognosis**

- Likely to return to competition at previous level and perform adequately if managed well

#### Follow-up

Re-examined 8 weeks post-initial:

- Mild asymmetric excursion of croup/SI
- Right hind upper leg flexion test – negative

#### **Discussion - Epidemiology**

- ${\cal F} Relatively common injury of jumping horses$
- Two forms: Acute overload injury; Chronic, repetitive tissue weakening and lameness
- \*Warmbloods or heavy horses appear more susceptible
- $\ensuremath{\mathscr{P}}$  Generally older population (8 to 16 yrs), more related to "miles" of showing



#### **Discussion - Etiopathogenesis**

Multifactoral: Other factors

- Fitness for task usually not conditioned enough for level of exercise
- Medications low dose, chronic corticosteroids may have effect on collagen and ligamentous tissue
- ☞ Possible genetic component with collagen degradation
- Shoeing bar shoes, heel caulks, wide web heels, wide trailers

#### Discussion - Prognosis

#### Good to Guarded

 $\begin{tabular}{ll} \protect\end{tabular} \protect\end{tabular} Try to unload SL - lower heels, broaden toe so heels of shoe sink into surface \protect\end{tabular}$ 

#### \*Management:

- Time for tissues to stabilize variable
- May need to decrease performance level
- Constant "awareness" of condition ongoing concern
- Weight control
- Fitness level



### Zeus, 9 yr old WB, Gelding, A/O Jumper



# **History/ Complaint**

- Mid-July- developed swelling in bilateral hind legs around fetlocks after showing for 3 weeks
- Ring surface was "deep" and horse seemed to have to work hard out of the footing
- Bandaging, cold hydrotherapy and some Bute did little to reduce swelling over 2 days
- ❖RDVM- Left hind leg showed mild lameness (1+/5) on straight and lower leg flexion test was positive (2+/5)

#### Initial treatment

- RDVM- tapped, drained and injected with HA/Triamcinalone
- Bandage support with DMSO/Furacin
- Cold/compression therapy
- Hand walk, restricted exercise for 6 weeks, then start light riding





# Follow-up

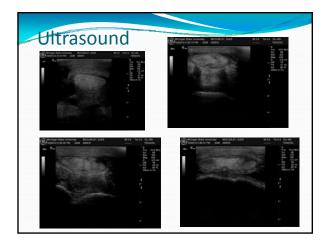
- Late-September- started jumping and swelling returned bilateral (RH>LH)
- RDVM-Lame right hind (3/5)
- ❖ Right hind lower leg flexion- positive (4/5)
- \*Ultrasound revealed bilateral hind leg tenosynovitis with tear in RH DDFT at level of pastern

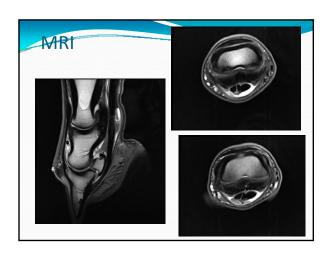


	ALL THE STREET, STREET
Examination	
❖Approximately 3 weeks from RDVM exam	

# What to do?

- Diagnostic analgesia?
- ❖Retreat?
- Radiographs?
- ❖Ultrasound?
- **⋄**MRI?
- ❖Nuclear Scintigraphy?
- Insurance due but good for another 60 days on this incident





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#### Treatment

- ❖Stall rest, hand walk and support bandage for 30 days
- IRAP therapy of tendon sheath weekly for 2 treatments starting 2 weeks post surgery
- Return for tenoscopy and debridement surgery on left hind tendon in 30 days
- Mesenchymal stem cell/PRP therapy of right hind tendon sheath at that time
- \*Continue another 30 days of stall rest, hand walk and support bandage

# Prognosis

- Rehabilitation of 10-12 months
- Guarded for return to same level of jumping competition



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