



**Large Animal Programme**

26<sup>th</sup> Annual Scientific Meeting

July 13-15, 2017

# Wednesday, 12 July

## Pre-Congress Labs

UNIVERSITY OF EDINBURGH - VET SCHOOL (EASTER BUSH CAMPUS)

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08:00-17:30     **Comparative Imaging of the Distal Limb** - dry lab  
E. Busschers, C. Sherlock, S. Taylor, F. David, S. Puchalski

08:00-17:30     **Advanced Dental Techniques** - wet lab  
P. Dixon, H. Tremaine, N. Townsend, L. Vlamincq, C. Pearce

# Thursday, 13 July

## Resident Session

SIDLAW & FINTRY AUDITORIUM

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13:00-13:40     **ECVS Exam - what to expect** (Sidlaw Auditorium)  
Exam Committee

13:40-15:40     **Imaging Case Discussions** (Fintry Auditorium)  
S. Puchalski

## Main Programme

CROMDALE HALL

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15:00-16:30     **Registration**



Thursday, 13 July

## Opening Session - State of the Art

PENTLAND AUDITORIUM

Chair: H. L'Eplattenier

16:30-17:30 **Craniofacial Clefts and Velopharyngeal Function in Humans – Investigation and Treatment**  
F. Mehendale

## Resident Forum

FINTRY AUDITORIUM

Chair: A. Martens

17:45-18:00 **Ultrasound – guided approach to the cervical articular process joints in horses: a validation of the technique in cadavers.**

JP Johnson                      Discussant: F. David

18:00-18:15 **Retrospective study of ultrasonographic features of superficial digital flexor tendon (SDFT) injuries in 469 Thoroughbred racehorses in Hong Kong, and their relationship to outcome.**

R. Alzola Domingo              Discussant: R. Smith

18:15-18:30 **Efficacy and dermal tolerance of an alcohol-based skin antiseptic in horses**

VJ Tannahill                      Discussant: D. Verwilghen

18:30-18:45 **Comparison of incisional bursting strength of a bidirectional absorbable knotless suture material versus a standard continuous absorbable suture material for closure of the equine linea alba**

F. Barcelo Oliver                Discussant: D. Archer

18:45-19:00 **Results of a manual non-surgical reduction technique to treat strangulating indirect inguinal hernias in the horse and comparison of outcome of a conservative versus a direct surgical approach: 105 cases.**

K. Baranková                      Discussant: J. Ensink

19:00-19:15 **Retrospective study on the influence of nephrosplenic space closure in recurrent colic**

JM Arévalo Rodríguez        Discussant: H. Wilderjans

19:15-19:30 **Clinical and radiographic long-term results after lag screw osteosynthesis of short incomplete proximal sagittal fractures of the proximal phalanx in horses**

MF Bryner                         Discussant: I. Wright



Thursday, 13 July (cont'd)

- 19:30-19:45     **Management and long-term outcome of cervico-thoracic vertebral column trauma in horses diagnosed with computed tomography: 9 cases**  
L. Wright                      Discussant: T. Hughes
- 19:45:20:00     **Osseous trauma in the proximal phalangeal sagittal groove diagnosed using low-field MRI in mature sport-horses: conservative vs surgical treatment.**  
G. Lipperi                      Discussant: J. Kümmerle
- 20:00-20:15     **Accuracy and precision of equine navicular bursa volume measurement made from low field MRI datasets using 3D® Slicer software – an ex vivo study.**  
M. Marcatili                      Discussant: C. Sherlock

**Welcome get-together**

STRATHBLANE HALL

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20:00-23:00     **Welcome get-together** at the EICC, Strathblane Hall



Friday, 14 July

## In-depth: What about the ligaments?

TINTO & MOORFOOT

Chair: Florent David

- 08:30-08:55 **Clinical features and diagnosis of collateral ligament injuries**  
F. James
- 08:55-09:20 **Comparative Imaging in the evaluation of ligament desmitis**  
S. Puchalski
- 09:20-10:00 **Intra-articular ligaments, arthroscopic observations and treatment**  
I. Wright
- 10:00-10:20 **Conservative and innovative treatments for desmitis**  
E. Busschers
- 10:20-10:30 **Discussion**
- 10:30-11:00 **COFFEE BREAK**

## Short Communications - Orthopaedics

TINTO & MOORFOOT

Chair: A. Fürst

- 11:00-11:15 **Magnetic resonance imaging of equine carpal disorders – 38 clinical cases**  
M. Waselau
- 11.15-11:30 **Effect of trotting speed on kinematic variables measured by an extremity mounted inertial measurement unit sensor system in normal horses under controlled conditions of treadmill exercise.**  
AM Cruz
- 11:30-11:45 **Prevalence of fracture in Thoroughbred flat racehorses following intrasynovial medication**  
LCR Smith

## Short Communications

KILSYTH

Chair: P. Pollock

- 08:45-09:00 **The role of the stable fly (*Stomoxys calcitrans*) in equine sarcoid transmission: an experimental study.**  
M. Haspeslagh
- 09:00-09:15 **Surgical management of umbilical infection in foals, short and long-term outcome: 65 cases (2010-2015)**  
G. Kelmer
- 09:15-09:30 **Foramen Epiploicum Mesh Closure (FEMC) during laparotomy for epiploic foramen entrapment colic surgery.**  
T. van Bergen
- 09:30-09:45 **Noninvasive diode laser treatment of iris cysts in horses**  
JM Ensink
- 09:45-10:00 **Does use of subcutaneous medical grade honey improve healing of repaired traumatic equine lacerations?**  
G. Kelmer
- 10:00-10:15 **Repeatability of gait pattern variables measured by an extremity mounted inertial measurement sensor system in sound horses at trot.**  
AM Cruz
- 10:15-11:00 **COFFEE BREAK**

**Look outside the box:** The programme committee recommends today's lectures on implants in human surgery in the small animal programme.



(08:30-09:00 / 09:00-09:30, Pentland Auditorium)



## Friday, 14 July (cont'd)

- 11:45-12:00 **Barbed versus standard suture repair of longitudinal tears of the equine deep digital flexor tendon: An *ex vivo* study**  
D. Castillo
- 12:00-12:15 **Optimising the LPS model for the experimental induction of temporary synovitis and lameness in Standardbred horses**  
E. Van de Water
- 12:15-12:30 **Effects of stanOzolol on an *in vitro* model of osteoarthritis**  
M. Castro Martins
- 12:30-14:00 **LUNCH BREAK**

**Look outside the box:** The programme committee recommends today's lecture „Treatment recommendations for ectopic ureters“ in the small animal programme.



(11:30-12:15, Sidlaw Auditorium)

## In-depth: Advances in Anesthesia

KILSYTH

Chair: Y. Elce

- 11:00-11:20 **Equine anesthesia: can we still get better?**  
M. Senior
- 11:20-11:40 **The ideal recovery: Assisted or not assisted, that's the question!**  
M. Senior
- 11:40-12:00 **Evaluation and Management of postoperative pain anno 2017**  
C. Lindegaard
- 12:00-12:10 **Regional analgesias in surgery: the surgeon's view**  
C. Lindegaard
- 12:10-12:20 **Regional analgesias in surgery: the anesthesiologist's view**  
M. Senior
- 12:20-12:30 **Discussion**
- 12:30-14:00 **LUNCH BREAK**

## Lunch time sessions

CARRICK 2+3

- 13:15-14:15 **Meet the Expert: Tricks and pitfalls in dental extractions**  
P. Dixon

PENTLAND AUDITORIUM

- 13:15-13:45 **Information session for Residents and Supervisors: Credentials / Grants / Exam**  
JP Billet



Friday, 14 July (cont'd)

## In-depth: Advancements in Dentistry

TINTO & MOORFOOT

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Chair: H. Tremaine

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- 14:00-14:15 **Advances in equine dentistry**  
P. Dixon
- 14:15-14:35 **Understanding dental CT imaging in health and disease**  
S. Puchalski
- 14:35-14:50 **Recognizing and managing apical infection**  
C. Pearce
- 14:50-15:05 **Dealing with periodontal disease 2017: widening, packing or?**  
P. Dixon
- 15:05-15:25 **Dental reconstructive techniques - are we getting any better?**  
C. Pearce
- 15:25-15:45 **Equine exodontia: techniques, complications and current outcomes**  
P. Dixon
- 15:45-16:00 **Discussion**
- 16:00-16:30 **COFFEE BREAK**
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## Short Communications - General

TINTO & MOORFOOT

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Chair: R. Reardon

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- 16:30-16:45 **Cone beam computed tomography of the head in standing horses – 73 clinical cases**  
MD Klopfenstein Bregger
- 16:45-17:00 **Coil embolization of the internal and external carotid arteries on standing horses**  
CB Bussy
- 17:00-17:15 **Overground endoscopic findings and respiratory sound analysis in horses with recurrent laryngeal neuropathy after unilateral laser ventriculocordectomy**  
SZ Barakzai



Friday, 14 July (cont'd)

- 17:15-17:30     **Review on surgical paranasal sinus cyst treatments in the horse**  
D. Verwilghen
- 17:30-17:45     ***In vitro* evaluation of the forwarder and Aberdeen knots for continuous suture patterns with large gauge suture**  
A. Gillen
- 17:45-18:00     **Effect of three types of horseshoes and unshod feet on selected kinematic variables measured by an extremity mounted inertial measurement unit sensor system in sound horses at the trot under conditions of treadmill and geotextile surface exercise**  
AM Cruz

**Look outside the box:** The small animal programme features two lectures on sheep in its orthopedics stream today.  
(17:00-17:15 / 17:45-18:00, Pentland Auditorium)



## Residents' Lecture

TINTO & MOORFOOT

- 18:15-19:00     **Basics of study design**  
R. Reardon

## ECVS Annual Business Meeting (mandatory for ECVS Diplomates)

PENTLAND AUDITORIUM

- 18:10-19:30     **ECVS Annual Business Meeting**

FREE EVENING

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Saturday, 15 July

## Short Communications - Orthopaedic

TINTO & MOORFOOT

Chair: S. Taylor

- 08:30-08:45 **A novel ultrasonographic assisted technique for desmotomy of the palmar/plantar annular ligament in horses**  
P. Espinosa
- 08:45-09:00 **Aspiration, but not injection, decreases cultured equine mesenchymal stromal cell viability**  
JB Koenig
- 09:00-09:15 **Cone beam computed tomography (CBCT) for cross-sectional diagnostic imaging of the equine extremity in standing sedated horses**  
C. Koch
- 09:15-09:30 **A multi-centre study of synovial sepsis of the calcaneal bursae in horses treated by endoscopic lavage**  
CM Isgren
- 09:30-09:45 **Plantar osteochondral fragmentation (POF) in the metatarsophalangeal joints of French Standardbred horses: Clinical aspect and prognosis after arthroscopic removal**  
T. de Beauregard
- 09:45-10:00 **ACVS RESIDENT AWARD:  
Intramedullary, interlocking nail fixation of humeral fractures in 27 horses less than 1 year of age (1989-2013)**  
K. Glass
- 10:00-10:30 **COFFEE BREAK**

## Clinical Biomechanical relevance of surfaces and shoeing

KILSYTH

Chair: W. Back

- 08:30-08:45 **Biomechanical effects of surfaces**  
L. Roepstorff
- 08:45-09:00 **Surfaces and the occurrence of orthopaedic lesions**  
L. Roepstorff
- 09:00-09:15 **Evidence-based shoeing in healthy feet: biomechanical considerations**  
M. Weishaupt
- 09:15-09:30 **Biomechanical effects of shoeing**  
M. Weishaupt
- 09:30-09:45 **Evidence-based shoeing for orthopaedic pathologies: biomechanical basics of therapeutic farriery**  
M. Oosterlinck
- 09:45-10:00 **Discussion**
- 10:00-10:30 **COFFEE BREAK**

**Look outside the box:** The programme committee recommends today's lecture „New concepts in bone regeneration“ in the small animal programme.

(09:00-09:30, Pentland Auditorium)



Saturday, 15 July (cont'd)

## In-depth: The Thorax

TINTO & MOORFOOT

Chair: DA Gorvy

- 10:30-10:50 **50 shades of grey: Imaging the thorax**  
S. Puchalski
- 10:50-11:10 **Thoracoscopic approaches, techniques and clinical indications**  
Y. Elce
- 11:10-11:30 **Dealing with thoracic trauma including pneumothorax and thoracolumbar spine trauma**  
Y. Elce
- 11:30-11:45 **Dealing with rib fractures in horses**  
Y. Elce
- 11:45-12:00 **Surgical tracheal diseases and rib resection**  
T. Greet
- 12:00-12:15 **Surgical heart treatment in horses: can it be done?**  
A. Martens
- 12:15-12:30 **Discussion**
- 12:30-14:00 **LUNCH BREAK**

**Look outside the box:** The programme committee recommends lectures in the *Pathology of PNS* and *Trauma of PNS* sessions in the small animal programme.



(08:30-09:05 / 09:05-09:30 / 11:55-12:20 / 12:20-12:45, Fintry Auditorium)

## Lunch time sessions

TINTO & MOORFOOT

- 13:00-14:00 **Publishing in Veterinary Surgery: Updates and tips (Q&A session)**  
D. Griffon
- As new editor in chief of *Veterinary Surgery*, Dominique Griffon has made it a priority to maintain strong lines of communication with contributors to the journal. A few changes have been made to the review process and format of the journal, which are relevant to the Diplomate and Residents.

CARRICK 2+3

- 13:15-14:15 **Meet the Expert: Minimally invasive approaches: Tricks and pitfalls**  
F. David



Saturday, 15 July (cont'd)

## In-depth: What about the Musculus Interosseus Medius?

TINTO & MOORFOOT

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Chair: R. Smith

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- 14:00-14:15 **Clinical features and diagnosis of musculus interosseus medius injury**  
S. Boys-Smith
- 14:15-14:35 **Comparative imaging in the evaluation of musculus interosseus medius injury**  
S. Puchalski
- 14:35-14:55 **Surgical management of marginal tears of the suspensory ligament branches in Thoroughbred racehorses**  
I. Wright
- 14:55-15:10 **Neurectomy: technique, surgical considerations and complications**  
T. Hughes
- 15:10-15:25 **Conservative treatments for musculus interosseus medius injury**  
E. Busschers
- 15:25-15:45 **Critical review on outcomes of treatments for hind limb musculus interosseus medius (suspensory ligament) injury**  
S. Taylor
- 15:45-16:00 **Discussion**
- 16:00-16:30 **COFFEE BREAK**
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## Poster Session

TINTO & MOORFOOT

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POSTERS ARE ON DISPLAY THURSDAY THROUGH SATURDAY IN STRATHBLANE HALL

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16:30-17:30 Chair: D. Archer, D. Verwilghen

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**During Friday, 8 posters from the list below will be selected for presentation.**

All authors should stand by their poster during the Friday morning and afternoon coffee breaks.

The authors will be informed on Friday by email whether their poster has been selected for presentation. Additionally, these posters will be marked with an **Accepted for presentation** sticker.

For the poster presentation, authors should prepare **4 slides** with the headings 1) title and objectives, 2 ) materials and methods, 3) results, and 4) discussion.



**Comparison of anatomic distribution of topical medication in the upper respiratory tract after “throat spray” and oral administration in horses**

O. Brandenberger

**Successful surgical debridement of a cerebral Streptococcus equi equi abscess by parietal bone flap craniotomy of a 2-month old Warmblood foal.**

B. Broux

**Use of an illuminated single port ovoid trocar for ovariectomies in standing mares**

C. Bussy

**Standing repair of a proximal, incomplete, articular fracture of the third metatarsal bone**

E. Cillan-Garcia

**Effect of arthroscopic lavage and repeated intra-articular administration of antibiotic on synovial nucleated cell count, total protein and percentage of neutrophils in adult horses and foals with septic arthritis**

M. Cousty

**Standing laparoscopic abdominal lavage of 2 horses with suppurative peritonitis using a suction-irrigation device**

N. Cribb

**Hypothermia prevention in long standing sedation procedures in horses**

A. Florczyk

**Penetrating foreign bodies in horses' limbs : A retrospective case study**

M. Gangl

**Ethylenediaminetetraacetic acid (EDTA) anticoagulant affects the refractometric measurement of total protein concentration in equine synovial fluid**

S. Hann

**Laparoscopic implantation of tenckhoff catheter in horses**

CA Hussni

**Pneumatosis intestinalis due to strangulating small intestine lesions: 2 cases**

M. Iglesias Garcia

**Evaluation of the pharmacokinetics of Ceftazidime after regional limb perfusion in standing horses**

G. Kelmer

**Intestinal interleukin-7 expression during IschemiaReperfusion**

R. Perrin

**Surgical repair of propagating condylar fractures of the third metacarpal and third metatarsal bones using a lag fashion technique in 26 racehorses (2007–2015)**

N. Moulin



## Posters (cont'd)

**Surgical repair of a chronic sinocutaneous fistula in a horse using inverted skin-periosteal flaps associated with levator labii superioris muscle transposition**

L. Petrizzi

**Ultrasonographic evaluation of umbilical structures of calves: a comparison between healthy calves and those affected by umbilical disorders**

L. Petrizzi

**Case Report: Intralesional injection of formalin for the treatment of a paranasal cyst in a horse**

JM Rosser

**Case Report: Surgical treatment of urolithiasis in a Bactrian camel**

JM Rosser

**Local anaesthetics but not morphine or magnesium sulphate are toxic for equine chondrocytes and synoviocytes in vitro.**

LM Rubio-Martinez

**Supraspinous ligament desmotomy to treat desmitis in 10 horses**

D. Rutherford

**Effects of MK-467 and hyoscine on cardiovascular suppression and intestinal hypomotility induced by detomidine in horses**

HA Tapio

**Ultrasonographic and clinical evaluation of three suture techniques of the equine linea alba**

M. Verkade

**Medial collateral ligament reconstruction of the equine metatarsophalangeal joint – a case report**

M. Waselau

## Closing Session - State of the Art - Jörg Auer Lecture

PENTLAND AUDITORIUM

Chair: R. Smith

17:45-18:30

**Jörg Auer Lecture: Fighting the old enemy: Strategies for implant infection**

H. Simpson

18:30-19:00

**Awards and Closing Remarks**

R. Smith

## Farewell

NATIONAL MUSEUM OF SCOTLAND

20:00-02:00

**Farewell dinner at the National Museum of Scotland**

