

# 7th

## International Symposium on Veterinary Rehabilitation and Physical Therapy

15-18 August 2012 | University of Veterinary Medicine | Vienna, Austria

### *Program*

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Registration: [www.admicos.com/isvr2012](http://www.admicos.com/isvr2012)  
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### Wednesday, 15<sup>th</sup> August 2012

#### Pre-conference labs

##### *Therapeutic modalities – from science to practice (horses and dogs)*

In the morning, David Levine and Janet Steiss will give a scientific based insight into frequently used therapeutic modalities (thermotherapy, therapeutic ultrasound, massage, electrotherapy, laser and magnet field). In the afternoon participants can choose between canine or horse hand on labs to train their skills with experienced physical therapists

**09.00-09.45** Thermotherapy and Therapeutic Ultrasound D. Levine

**09.45-10.30** Massage J. Steiss

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##### **10.30-11.00** Coffee break

**11.00-11.45** Electrotherapy D. Levine

**11.45-12.30** Laser and magnet field J. Steiss

**12.30-13.30** Lunch break

**13.30-16.00** Groups rotating – 30 min/station

Dog: D. Levine, Z. Vrbanac, M. Müller, K. Barker-Benfield

Horse: J. Steiss, A. Bergh, R. Stodulka, S. Valentin

##### *In depth labs – dogs*

Participants can choose two of the labs.

**Schedule: 09.30 – 11.30 or 13.00 – 15.00**

##### **Get in touch with the world of biomechanics**

C. Peham, R. Zsoldos

In this lab participants will be introduced in the kinetic motion analysis. The speakers will present the use of force plates and pressure mats. The kinetics of sound and lame animals will be presented and discussed.

##### **Early rehab after injury for sporting and working dogs**

S. Mai

In this lab participants will make plans to improve the early rehabilitation of a canine athlete after injury with an assortment of exercises and different modalities.

##### **Monitoring the cardiovascular system during exercises**

B. Egner

Quite some patients in rehabilitation also suffer from a cardio-vascular condition, that results in a lower work load capacity. Inadequate exercise could be harmful to those patients in terms of not only fast exhausting due to a lack of oxygen supply to the muscles but even worse in leading to a faster progression of an underlying heart disease, hypertension, etc.. Thus exercise needs to be adapted accordingly. A short introduction should explain the reason, why and how a cardio-vascular disease has an impact on exercise tolerance followed by a practical approach, how to monitor it before, during and after the exercises using your fingers, a stethoscope and HDO blood pressure and pulse wave analysis.

##### **Neurological examination**

D. Millis

In the lab the neurological examination will be explained and trained by an highly experienced surgeon.



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### **What does this x-ray show?**

S. Kneissl

The attendee will be taught a systems-based practice to read and describe radiologic findings in various cases with and without skeletal abnormalities, either clinically relevant or coincidental

### **Evaluation and Conditioning the Canine Athlete to Return to Sport**

L. Gelbmann

1. How to evaluate assembly and structural strengths, weaknesses and imbalance
2. Discuss and demonstrate the effects of weaknesses and imbalance
3. Building the conditioning program based on imbalances. A 12 week program
4. Weight training as part of the conditioning program
5. Maintenance plan

### **Physical therapy for the patient with back pain**

L. Connell

Back pain in small animals can be attributed to many different conditions and treatment is dependent on the differential diagnosis and structures involved. Stimulation of nociceptor pathways around the vertebral column can be a result of sensitization due to inflammatory mediators or by compressive forces or mechanical dysfunction.

The aim of this workshop is to review physiotherapy assessment and treatment modalities used in the management of canine back pain, with a focus on treatment and rehabilitation of dogs suffering IVDD, lumbosacral disease, spinal osteoarthritis and management of secondary musculoskeletal back pain due to limb dysfunction.

*Welcome Reception at Vienna Town Hall*





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### *In depth labs – horses*

Participants can choose two of the labs.

**08.30-10.30 or 12.30-14.30**

#### **Examination and differential diagnostics in the horse with neck, back and pelvic dysfunction**

R. Weller, M. Prades, T. Pfau

In this lab the participants will be guided through a step-by-step approach to the diagnosis of horses with neck and back problems, including clinical subjective and objective investigation and diagnostic imaging.

The participants will rotate through 3 stations: Clinical examination led by Marta Prades, objective sensor-based assessment led by Thilo Pfau, diagnostic Imaging led by Renate Weller

#### **Spinal mobilisation and manipulations: examples in the neck and TL spine and pelvis**

K. Haussler, S. Adair

This laboratory will provide the participant the opportunity to become familiar with the practice of mobilization and manipulation of the equine axial skeleton and pelvis. Hands on palpation will be utilized to allow the participant to gain an appreciation of the skills needed and the steps involved in determination of an accurate diagnosis and appropriate treatment plan. The participant will learn how to detect pain, muscle hypertonicity and restricted motion between the vertebral segments of the axial skeleton via specific palpation and mobilization techniques. Several different spinal mobilization and manipulation techniques will be demonstrated.

**10.30-12.30 or 14.30-16.30**

#### **Mobilisation and tactile proprioceptive facilitation techniques and exercises**

N. Stubbs, N. Rombach

A series of dynamic mobilisation exercises and tactile proprioceptive facilitation techniques will be demonstrated in the unmounted and ridden horse. These techniques have been developed from a multidisciplinary approach, by adapting physiotherapeutic, sports medicine and rehabilitation and performance enhancement principles to the horse. These principles revolve around a “motor control approach” via the utilisation of the key motor control principles, proprioception and kinesthesia. The primary concept is based on how to “activate your horse’s core” and preparatory muscle activation, to specifically address functional dynamic instability, muscle imbalances and asymmetry. The participants will use their clinical reasoning skills in conjunction with presenters to formulate an unmounted and ridden exercise program specific to each horse. Research will be discussed throughout this interactive session.

*Welcome Reception at Vienna Town Hall*



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### Thursday, 16<sup>th</sup> August 2012

#### Lecture program

##### *Canine hip dysplasia – the same old story?*

Chair: *D. Millis*

<b>08.00-08.20</b>	<i>D. Millis</i> : The anatomy of the canine hip – just a short refresher
<b>08.20-09.00</b>	<i>A. Vezzoni</i> : Radiological diagnosis of hip dysplasia: from early diagnosis to final score
<b>09.00-09.30</b>	<i>B. Vidoni</i> : Keep your eyes open – clinical signs and examination of young dogs with suspected CHD
<b>09.30-10.00</b>	<i>L. Connell</i> : And what are the findings of a physical therapist?
<b>10.00-11.00</b>	<b>Coffee break, Exhibition</b>
<b>11.00-11.30</b>	<i>B. Bockstahler</i> : HD and osteoarthritis of the hip – what the biomechanical research tells us
<b>11.30-12.00</b>	<i>C. Iben</i> : Nutrition and CHD – how to feed puppies
<b>12.00-13.15</b>	<i>A. Vezzoni</i> : Do we have other surgical possibilities than THR?
<b>13.15-14.45</b>	<b>Lunch, Exhibition</b>
<b>14.45-15.15</b>	<i>M. Müller</i> : What can we do after surgery?
<b>15.15-15.45</b>	<i>S. Mai</i> : Can the PT help? Motion exercises for puppies and growing dogs
<b>15.45-16.15</b>	<i>L. Connell</i> : Long term conservative treatment
<b>16.15-16.45</b>	<b>Coffee break, Exhibition</b>
<b>16.45-17.15</b>	<i>Millis, Vezzoni, Connell, Mai</i> : Panel discussion

##### *The horses neck – a rolling topic*

Chair: *N. Stubbs*

<b>08.00-08.20</b>	<i>A. Bergh</i> : The anatomy of the neck - just a short refresher
<b>08.20-09.00</b>	<i>T. Licka</i> : Biomechanics of the neck
<b>09.00-09.30</b>	<i>N. Rombach</i> : Motor control, muscle function and dynamic stability in the neck
<b>09.30-10.00</b>	<i>C. Peham, R. Zsoldos</i> : The role of modelling - what models can tell us
<b>10.00-11.00</b>	<b>Coffee break, Exhibition</b>
<b>11.00-11.30</b>	<i>M. Prades</i> : Clinical pathologies of equine neck problems
<b>11.30-12.00</b>	<i>R. Weller</i> : An update in diagnostic imaging of the equine neck
<b>12.00-12.30</b>	<i>N. Stubbs</i> : Physical examination of the equine neck
<b>12.30-13.15</b>	<i>K. Haussler, S. Adair</i> : Mobilization and manipulation of the equine neck
<b>13.15-14.45</b>	<b>Lunch, Exhibition</b>
<b>14.45-16.15</b>	<i>N. Stubbs, N. Rombach</i> : Physical therapy for the equine neck and therapeutic exercises
<b>16.15-17.15</b>	<b>Coffee break, Exhibition</b>
<b>16.45-17.15</b>	<i>N. Stubbs</i> : Tactile proprioceptive facilitation techniques
<b>17.15-17.45</b>	<i>Bergh, Stubbs, Haussler, Prades, Weller</i> : Panel discussion



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### Friday, 17<sup>th</sup> August 2012

**Morning rounds** 07.00-08.00

*Dogs: Find a rehabilitation plan* J. Steiss, S. Mai

*Horses: A critical view on the treatment approaches of back problems in horses* T. Licka

**Scientific presentations** 08.00-09.30

**Dogs and horses: Part 1** *different speakers*

**09.30-10.00** **Coffee break, Exhibition**

#### Lecture program

##### *The dog with back pain*

Chair: L. Connell

<b>10.00-10.30</b>	<i>D. Millis:</i> Functional anatomy of the canine spine
<b>10.30-11.00</b>	<i>S. Kneissl:</i> Refresh your knowledge in diagnostic imaging
<b>11.00-12.30</b>	<i>D. Millis:</i> Do you remember: clinical examination and pathologies of the back
<b>12.30-13.30</b>	<b>Lunch, Exhibition</b>
<b>13.30-14.00</b>	<i>D. Millis:</i> Kinematics of the canine spine in sound and lame dogs
<b>14.00-14.30</b>	<i>L. Connell:</i> And what are the findings of a physical therapist?
<b>14.30-15.00</b>	<i>D. Millis:</i> Surgical approaches to the dogs back
<b>15.00-15.30</b>	<i>U. Auer:</i> Ouch- It hurts! Current advances in pain medication – when, what & how much of the “good stuff”
<b>15.30-16.00</b>	<b>Coffee break, Exhibition</b>
<b>16.00-17.00</b>	<i>L. Connell:</i> Rehabilitation techniques for the patient with back pain
<b>17.00-17.45</b>	<i>Millis, Connell:</i> Panel discussion

##### *The horses sacroiliac joint – the base of the hindquarter*

<b>10.00-10.30</b>	<i>A. Bergh:</i> The anatomy of the sacroiliac joint - just a short refresher
<b>10.30-11.00</b>	<i>K. Haussler:</i> Biomechanics of the SI joint
<b>11.00-11.30</b>	<i>R. Weller:</i> Imaging of the lumbopelvic region
<b>12.00-12.30</b>	<i>N. Stubbs:</i> Physical examination of the lumbopelvic region: combined veterinary and physiotherapeutic approach
<b>12.30-13.30</b>	<b>Lunch, Poster presentations, Exhibition</b>
<b>13.30-14.00</b>	<i>T. Pfau:</i> Objective assessment of hindquarter (a)symmetry
<b>14.00-14.30</b>	<i>M. Prades:</i> Clinical pathologies of the lumbopelvic region
<b>14.30-15.00</b>	<i>M. Prades:</i> The 'conservative' approach to treat SI joint diseases
<b>15.00-15.30</b>	<i>K. Haussler, S. Adair:</i> Manipulation of the sacroiliac joint
<b>15.30-16.00</b>	<b>Coffee break, Exhibition</b>
<b>16.00-17.00</b>	<i>N. Stubbs, N. Rombach:</i> Physical therapy for the sacroiliac joint
<b>17.00-17.45</b>	<i>Bergh, Weller, Prades, Adair, Stubbs:</i> Panel discussion

*Social event at Heuriger Wieninger*



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### Saturday, 18<sup>th</sup> August 2012

**Morning rounds** 07.00-08.00

*Dogs: Acupuncture and Physical Therapy – a wonderful team* S. Mai, M. Müller

*Horses: The question of medication versus doping control* C. Zach

08.00-09.30 **Scientific presentations**

**Dogs and horses: Part 2** *different speakers*

09.30-10.00 **Coffee break, Exhibition**

#### Lecture program

##### *Canine sports*

*Chair: S. Mai*

**10.00-10.45** D. Millis: Exercise physiology of dogs – all you want to know about muscles

**10.45-11.30** I. Schwendenwein: Can the blood labs tell us anything about the exposure during exercises?

**11.30-12.00** B. Egner: The cardiovascular system during exercises

**12.00-12.30** S. Mai: Common types of canine sports

**12.30-13.30** **Lunch , Exhibition**

**13.30-14.30** D. Millis: Common seen injuries in canines sports

**14.30-15.30** S. Mai: Put it all together: How should we train our sporting dogs?

**15.30-16.00** Mai, Millis: Panel discussion

##### *Equine sports: Exercise physiology*

**10.00-10.30** S. McKane: Cardiovascular system: conditioning in the sport horse

**10.30-11.30** R. Van den Hoven: Equine exercise physiology - Transforming laboratory studies into practical concepts

**11.30-12.00** S. McKane: Thermoregulation

**12.00-11.30** **Lunch, Exhibition**

**13.30-14.30** S. McKane: All about muscles and their function and dysfunction

**14.30-15.30** A. Firshmann: Conditioning the sport horse

**15.30-16.00** Van den Hoven, Firshmann, McKane: Panel discussion

**Closing ceremony**





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### Registration

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Please use the [online registration form \(www.admicos.com/isvr2012\)](http://www.admicos.com/isvr2012) to register and to reserve your hotel room.

#### Registration fees

I AVRPT, VEPRA members	460 EUR
Non-members	480 EUR
Walk Up Registration	550 EUR
Physical Therapy Students/Veterinary Students	135 EUR
Day tickets	
One Day Registration	180 EUR
One Day Walk Up Registration	250 EUR
Accompanying person (social events)	90 EUR
Morning Rounds	30 EUR
Vet Labs	180 EUR





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