

**ADVANCED TRAINING IN MUSCULOSKELETAL
AND MEDICAL SPORT CONDITIONS OF HORSES**

1, 2, 3 and 4th October 2021 (Date to be confirmed): Application of new technologies to quantify gait in clinical practice (8 contact hours x 4 days = 32h) in English. *Marie Rhodin, Constanza Gomes Alvarez, Filipe Bragança.*

Aguarda Programa Definitivo

Learning objectives

MODULO 7

Application of new technologies to quantify gait in clinical practice

PT

1. Conhecer os princípios da biomecânica dos equinos
2. Distinguir as técnicas utilizadas para a análise quantitativa da locomoção: cinemática versus cinética
3. Confrontar a análise subjectiva com as técnicas subjectivas de análise do movimento
4. Familiarizar-se com o princípio tecnológico e a informação obtida de três aparelhos comerciais actualmente disponíveis no mercado: Lameness Locator®, Qualisys® e Equimoves®
 - a. Conhecer os benefícios e as limitações
 - b. Comparar na prática os três sistemas
 - c. Interpretar os resultados dos diferentes sistemas relativamente a claudicações verdadeiras e compensatórias
5. Apreciar a integração dos sistemas na prática equina através de exemplos internacionais: potencialidade, procura do mercado e viabilidade financeira
6. Familiarizar-se com perspectivas futuras para a análise objectiva da locomoção

EN

1. To be acquainted with the principles of biomechanics in relation to the horse's gait.
2. To understand the limitations of subjective gait evaluation based on supporting literature.
3. To understand the different technologies used to objectively analyse gait, namely kinematics and kinetics and their advantages and limitations

4. To be familiar with the technology and information obtained from three commercial objective gait analysis devices: Lameness Locator[®], Qualisys[®] and Equimoves[®]
 - a. To identify their benefits and limitations.
 - b. To compare the three systems during practical application.
 - c. To interpret the results produced by the systems: including techniques to differentiate true from compensatory lameness.
5. To experience subjective and objective gait analyses in compensatory and multiple lameness cases.
6. To appreciate potential benefits of integration of objective gait quantification system in practice including international examples: potential, market demand and financial return.
7. To be familiar with potential future applications and research related to objective gait analysis.
8. Clinical cases work-ups using objective gait measurements.