

RACE AMG Papers with Questions (answers)

The following 5 peer reviews outline *acoustic myography (AMG)*, its use, and its application in a Veterinary setting. For each peer review paper, there are 5 key questions designed to test whether the participants have read and understood each paper and their relevant subject matter. Please write all your answers to the *acoustic myography (AMG)* questions below in **RED**. After you complete the EXAM, please email us your answers to mail@myographytech.com for test scoring. **You will receive your certificate of accreditation via email based on your test results.**

Ahmed JEVS 2021

- Horses in this study were evaluated through manual palpation of the epaxial muscle region. Name three epaxial muscle systems in the horse.
- What is photobiomodulation?
- What techniques were used to assess muscle physiology?
- What has the research of Greve and Dyson [2013; Vet J] raised the awareness of with regards to training?
- Why do muscles located close to a site of pain often exhibit a high firing rate?

Chavers JEVS 2018

- How common are proximal suspensory ligament injuries in athletic horses?
- How many animals were included in this study and what was their average age?

- Were measurements made invasively or non-invasively?
- What constitutes a healthy AMG signal from a PSL?
- What factors might affect the AMG PSL signal?

Harrison CPFI 2017

- What is it that surface electromyography sEMG measures?
- What other factors besides neural stimulation can effect the contractile performance of skeletal muscle?
- Does the placement of sEMG sensors on a muscle have an effect on the recorded signal?
- What advantages does AMG have over sEMG?
- Can AMG detect eccentric and concentric muscle activity?

Jensen JEVS 2018

- What is Proprioception and how is it monitored in the body?
- How can Proprioception help to train/re-train horses?
- Describe the training program that was adopted.
- With which gait was an effect of proprioception stimulation found?
- What do you understand by the term imbalance?

Vitger AVS 2021

- Why and when would you use a water treadmill?
- Which muscles were investigated in the study and what is their function?
- Explain the ESTiTM score used by the AMG system.
- What did the study find for BF at the walk?



Balance ♦ Strength ♦ Performance

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DIAGNOSTICS



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- Increased muscular demands in this study were primarily exerted on BF, while QVL was challenged to a much lesser degree – why?