

Kinematic analysis of the world record for horse jumping, the duo Huaso-Larraguibel

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Abstract

In 1949 a world record in equestrian sport was broken when Captain Larraguibel and his horse Huaso jumped 2.47 meters high at the Coraceros regiment in Viña del Mar in Chile. This work first provides a historical overview of the event and then indicates the general characteristics of the equestrian jump. In addition, a kinematic analysis is made using an audiovisual record of the jump to finally theorize about the possible histological features that allowed the Huaso-Larraguibel duo to perform this jump. It is concluded that this type of procedure can be used in modern equestrian jumping, allowing to determine of biomechanical characteristics that can be improved through training.

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