ARTICLE FIVE

Hip joint biomechanics at different horse paces as a method for joint function testing

M.Rukhadze, T.Nareklishvili. K.Moistsrapishvili, Medical Sport and Sport Medicine,
Post graduate Medical Education and Continuing Professional Development,
Tbilisi State Medical University, Georgia
Corresponding Author:
Dr Manana Rukhadze
Tbilisi State Medical University of Post graduated education and continuous Professional Developing Institute, in the direction of Medical Sport and Sport medicine.
29.I. Chavchavadze ave.0179 Tbilisi (office); Nutsubidze pl. Micro district III , Bloc I, Bldg.7, Fl.42.
Phone: (+99532) 294289 (office),
Email: mananarukhadze@yahoo.com>

ABSTRACT

Biomechanical research of the hip joint is a method for testing the integral function of the joint. To assess hip joint movement amplitude and character, we developed a biomechanical research method to assess healthy people and patients with I and II degree hip joint arthrosis while riding a horse at different paces. The study found that the curve obtained in patients at trot differed significantly from that of healthy people. A difference in the angle magnitude and amplitude range of hip joint movement and in biomechanical curve height and width was also found. Inclusion of biomechanical curve as a criterion for hip joint function assessment is therefore proposed.