## **Human movement and sport performance**

## **Human movement and sport performance**

Human movement and sport performance is one of the main part of complementary approach in Kinantropology. The main areas in topic of sport sciences are research, implementation and clinical practice. All these areas have to validate and improve movement activities and sport performance. Human movement is more focused on all categories (child, youth, adults, seniors, patients etc.) in this research; sport performance is more focused on elite athletes on all categories too. It is necessary to demonstrate science and clinical competences for objectification, prediction and differentiation of sport performance. Very important part of research is standardization and verification of procedures for sport performance and identification of injury related parameters. Sport performance has multidimensional proportion and its identification requires qualitative and quantitative complex approach.

## Selected outputs

- ZAHALKA, F., T. MALY AND L. MALA. Analysis of vertical jump parameters with respect to age and a type of a jump in young soccer players. In T. FAVERO, B. DURST AND B. DAWSON eds. International Research in Science and Soccer II. New York: Routledge, 2016, p. 286-294, doi/view/10.4324/9781315686745
- ZAHÁLKA, F., T. MALÝ, L. MALÁ AND T. GRYC. Changes of postural stability with regard to gender, age and visual control of children. In M.J. COELHO-E-SILVA, A. CUPIDO-DOS-SANTOS, A. FIGUEIREDO, J.P. FERREIRA AND N. ARMSTRONG eds. Children and Exercise XXVIII. New York: Routledge, 2014, p. 119-124. doi/ view/10.4324/9780203404584
- ZAHALKA, F., T. MALY, L. MALA, M. EJEM, et al. Kinematic Analysis of Volleyball Attack in the Net Center with Various Types of Take-Off. Journal of Human Kinetics, 2017, 58(1), 261-271. https://doi.org/10.1515/hukin-2017-0115
- MALY, T., F. ZAHALKA, L. MALA AND P. CECH The bilateral strength and power asymmetries in untrained boys.
  Open Medicine, Jan 2015, 10(1), 224-232. doi: 10.1515/med-2015-0034
- MALY, T., F. ZAHALKA AND L. MALA Unilateral and Ipsilateral Strength Asymmetries in Elite Youth Soccer Players With Respect to Muscle Group and Limb Dominance. International Journal of Morphology, Dec 2016, 34(4), 1339-1344. http://dx.doi.org/10.4067/S0717-95022016000400027
- HANK, M., T. MALY, F. ZAHALKA, M. DRAGIJSKY, et al. Evaluation of the horizontal movement distance of elite female beach volleyball players during an official match. International Journal of Performance Analysis in Sport, Dec 2016, 16(3), 1087-1101. doi/abs/10.1080/24748668.2016.11868950
- DRAGIJSKY, M., T. MALY, F. ZAHALKA, E. KUNZMANN, et al. Seasonal Variation of Agility, Speed and Endurance Performance in Young Elite Soccer Players. Sports, Mar 2017, 5(1), 1-8. doi:10.3390/sports501001
- HANK, M., MALÝ, T., ZAHÁLKA, F., DRAGIJSKÝ, M., BUJNOVSKÝ D. Evaluation of the horizontal movement distance of elite female beach volleyball players during an official match. International Journal of Performance Analysis in Sport, 2016, 16.3: 1087-1101S
- MALA, L., F. ZAHALKA AND T. MALY. Bioimpedance for Analysis of Body Composition in Sports. In F. SIMINI AND P. BERTEMES-FILHO eds. Bioimpedance in Biomedical Applications and Research. Cham: Springer, 2018, p. 243-256.