

3<sup>rd</sup> International Conference on

# ADVANCED CLINICAL RESEARCH AND CLINICAL TRIALS

September 20-21, 2017 Dublin, Ireland

## Ground reaction force analysis for assessing gait disorders in myopathy

Mehdi Razeghi<sup>1</sup>, Hamed Ghomashchi<sup>1</sup> and Mohammad Shafiqh<sup>1</sup>  
<sup>1</sup>Islamic Azad University, Iran

**Objective:** The purpose of this paper was to study the quantitative differences between normal and waddling gaits in muscular dystrophy diseases were assessed by force platform.

**Methods:** Thirty five healthy subjects as the control group and twenty eight myopathy patients participated in this study. Patient data were extracted from muscular dystrophy in Boali hospital, and normal data were collected from students of science and research University. All of the tests were performed using a Kistler force plate. Patient and healthy subjects walked at forceplate without any assistive devices and barefoot

**Results:** Our results showed that, there were no considerable differences between two groups in the anterior-posterior components of the ground reaction forces; however, there were significant differences in the force components between healthy subjects and patients in the medial-lateral and vertical directions of the ground reaction force.

razeghi.ac@gmail.com