



Biomechanical analysis of walking: Effects of gait velocity and arm swing amplitude

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Abstract

Background and Purpose: Human walking has been extensively studied by many investigators and numerous mathematical models of lower limb movements have been developed but few reports have been written about contribution of the upper limbs to the locomotion process. The aim of this study was to investigate the influence of walking speed and effect of the upper limb swing on the trajectory of the whole body mass center, as well as on ground reaction forces during human walking.

Material and Methods: An automated method for determination of the whole body mass center has been established. Gait analysis was performed on 52 subjects using the Elite system and Kistler force platforms. The recording of trajectories of characteristic body points on subjects and measurements of ground reaction forces were performed at normal speed walking with natural and emphasized rhythmic upper limb swing and at fast walking speed. The determined mean values of normalized components of trajectory of the body mass center and ground reaction forces were compared.

Result and Conclusion: The study showed that components of ground reaction forces and trajectory of the whole body center of mass are influenced by changes in arm swing and gait velocity. Maximum magnitudes of components of ground reaction force increased for normal speed walking with emphasized upper limb swing. The emphasized upper limb swing decreased the magnitude of vertical oscillations of the body center of mass and thus may influence energy expenditure.

INTRODUCTION

Human walking is an extremely complex biomechanical process. A large number of investigations have been carried out in the field of human walking (1, 2). Interest in the analysis of human walking arises from the fact that motion analysis yields information on underlying (possibly pathological) processes which are not directly observable except by using highly invasive techniques. The trajectory of the body center of mass is often a relevant parameter in studying human walking because it reflects the motion of the whole body. An alteration in the trajectory of the body mass center may indicate a clinical manifestation of an underlying pathology, or just a means of maintaining stability in gait (3, 4). Since it reflects the whole body motion, the center of mass can provide useful parameters for the overall evaluation of walking and, in combination with other kinematic and kinetic data, give a more precise analysis, thus enabling practical application.

Biomechanical Analysis Of Walking Effects Of Gait

J Elliott



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