

Locomotion and Posture in Older Adults



The Role of Aging and
Movement Disorders

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Locomotion and Posture in Older Adults: The Role of Aging and Movement Disorders



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Despite these activities are performed daily, there exists a high requirement of engine and neural systems to be able to perform both duties efficiently. Therefore, the aim of this book is to highlight the influence of different facets in planning, controlling and performing locomotion and posture duties. However, the mechanisms utilized to regulate these tasks, along with how they're planned and coordinated, remain a question of discussion among health professionals and researchers. Furthermore, this discussion is more interesting when the ramifications of aging are contained in the context of locomotion and the postural control. The number of older individuals is normally 841 million in 2015, that is four times higher than the 202 million that lived in 1950. Aging causes many electric motor, sensorial and neural deficits, which impair locomotion and postural control in the elderly. The severity of this framework is worsened once the aging goes plus a movement disorder, such as Parkinson disease, Chorea, Dystonia, Huntington disease, etc. This book is an try to advance the discussion and improve our understanding about the effects of aging and movement disorders on motor control during walking and postural tasks. Both strolling and posture need a complex conversation of musculoskeletal and neural systems. In attempting to improve current knowledge in this field, invited authors present and discuss how environmental, sensorial, electric motor, cognitive and individual elements influence the look and efficiency of locomotor and postural activities. The major thrust of the book is to address the mechanisms involved in controlling and planning motor action in neurological healthy individuals, in addition to in those who suffer from movement disorders or face the effects of maturing, indicating the elements that impair locomotion and postural control. In addition, new technologies, equipment and interventions designed to manage the effects of aging and movement disorders are provided in the book.



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