## Isokinetic Exercise And Assessment

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## Isokinetic exercise in rehabilitation

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Since isokinettic equipment was first designed in the late 1960s, many investigations have focused on the agoniz-antagonist relationships, left-right imbalances and so on, in order to present normative data for the assessment of musculoskeletal injuries. Furthermore, the isokinetic principle has been applied in rehabilitation to minimise rehabilitation to time, because it is thought that it may give a close-to-optimal training stimulus to the musculoskeletal system. However, much research still needs to be carried out in this field, in order to determine which evaluation protocols are relevant, which training regimen is optimal, and which angular velocities should be used to assess and/or rehabilitate muscle optimal.

Keywords: Isokinetic exercise rehabilitation injury muscle

A valuable feature of sokinetic exercise (testing, training, therapy, assessment) is that the amount of moment produced by the athlete or patient is given in a unit of measure (foot-pounds or newton-metre). This feature makes it possible to obtain a measure of the "functional" capability of a muscle group at a certain joint. The moment produced represents the interaction between the lever arm of the motion and the expression of the muscular moments as

The trainer and therapist have now a tool with which strength can be expressed as a value. This allows them to compare muscle groups on one side of the body with their heterolateral counterparts, and to evaluate progression during a given training or therapeutic programme. The objective quantitative features of the dynamometer can also be used to provide normative data for assessment of a group of subjective shittlesteypatients and can therefore be used as a reference for the individual (e.g., Griffin et al., 1986; a reference for the individual (e.g., Griffin et al., 1986).

## Isokinetic assessment

A number of studies have dealt with the use of isokinetic secretics as a means for assessment and rehabilisation of secretic secr

however, values ranging from 0-41 to 0-87 have been reported depending on the angular velocity at which and the physical fitness of the subjects. When correction for gravity was implemented, values ranged from 0-61 to 0-71 (Westing and Seger, 1989). An overall trend can be observed 1980, Westing and Seger, 1989). An overall trend can be observed 1980, Westing and Seger, 1989). Alexander (1990) used peak torques to describe strength estimates of the major muscle groups of the lower limbs for a group of either the second of the second peak torques to describe strength estimates of the major muscle groups of the lower limbs for a group of either decreased to the second peak torque values for the flexor and extremor muscle groups of the hip, knee, and ankle joints were tested. The peak torque values for the flexor and extremor muscle groups of the hip, knee, and ankle joints were tested. The peak torque values for the concentration of the results from the hip and ankle joints. The closed for the results from the hip and ankle joints. The closed for the results from the hip and ankle joints. The concentric and eccentric ratios varied, depending on the speed of the concentric and eccentric ratios varied, depending on the speed of valuated the peak torque and total work of the hamstring quadriceps (H/O) ratios of 77 knees with a previous grade I distortion injury to find the possible relationship quadriceps (H/O) ratios of 77 knees with a previous grade I distortion injury to find the possible relationship to the peak torque and total work of the hamstring quadriceps (H/O) ratios of 77 knees with a previous grade I distortion injury to find the possible relationship to the peak torque and total work of the hamstring value from the peak torque and total work of the hamstring value from the peak torque and total work of the hamstring value from the peak torque and the maximal insortic extension and flexion outputs were recorded at low (104 rad/s) and high (314 rad/s) speeds of isokinetic movement, and the maximal insort

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