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陳淑如

Jeng;C.;chang;W.Y.;Chen;S.R.;Tseng;I.J.

摘要

Abstract

The aims of the study were to examine the influence of upper extremity exercise cong lucose response and to establish a predictive model of changes in serum glucose under different exercise intensities and durations. Thirty-three type 2DM patients who met the selection critena were selected. An arm cycle ergometer exercisctest was con ducted, and then 12 armexerciscses sions were arranged based on different exercise intensities (40%,60%, and 80% of maximal work load) and exercise durations(10, 20, 30, and 40min). Serumg lucose 1evels were mea sured before and after each exercisc session. Serum glucose 1evels significantly decreased after armexer ciscregard less of different intensities or durations. How ever, no interaction effect (intensity×duration) or main effect in exercisc intensity was observed, butasignifi cant main effect in exercise duration was observed (F=11.756,p<.0001). Also exercisc duration was a signifi cant predictor of serum glucose changes after arm exercisc. These results suggest that arm exercisc can play a use fulrole in glycemic control for type 2DM patients and exercisc duration is a key factor in determming serum glucose response under upper-extremity exercisc.