

Patients with Type 2 Diabetes Demonstrate Proprioceptive Deficit in the Knee

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Abstract

AIM

The objective of this investigation was to determine if persons with and without Type 2 diabetes mellitus (T2DM) demonstrate proprioceptive discrepancies as measured by a joint position sense (JPS) task in the lower extremity.

METHODS

In this cross-sectional study, a total of 46 older persons were divided into a T2DM group (n=23) and a control group who did not have T2DM (n=23). Participants were given a brief warm up with stretching exercises. Activities of daily living (ADL) and diabetic neuropathy scores were collected prior to proprioceptive testing. For proprioceptive testing, participants performed leg extensions to randomized target positions of 15°, 30°, 45, 60° degrees of elevation in the sagittal plane, each target was repeated a total of four times. Subjects were guided to target positions in the absence of visual feedback via auditory cues from a custom JPS application. When the participant

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Results: the results **show** that **knee** proprioception and kinesthesia were significantly decreased in **patients** with **diabetes** mellitus **type 2** in comparison with healthy **people** and there was a greater decline in ...