UAB SCHOOL OF HEALTH PROFESSIONS

Knowledge that will change your world

Departments of Physical and Occupational Therapy

PRESENT

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Final Dissertation Defense

RELATIONSHIP BETWEEN WALKING SPEED AND KINEMATIC TRAJECTORY COMPLEXITY IN PEOPLE WITH POSTSTROKE HEMIPARESIS

Individuals with chronic poststroke hemiparesis exhibit increased variability in spatio-temporal kinematic variables related to endpoint control during walking. Over the course of three studies, variability in swing phase foot trajectory area on a step-by-step basis (SBS-FTA) was quantified in nonimpaired individuals and people with chronic poststroke hemiparesis. Both nonimpaired and individuals poststroke increased their SBS-FTA variability with speed. Does this indicate that the gait pattern is becoming less controlled and, gait state-transitions may be necessary at slower speeds or maybe purposefully avoided for people poststroke?

Friday, December 1, 2017

1:30pm

School of Health Professions Building – Room 640