PARKINSON'S DISEASE NEWS

http://www.viartis.net/parkinsons.disease/news.htm

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APDM MOBILITY LAB FOR PARKINSON'S DISEASE ASSESSMENT

The diagnosis and estimation of disease severity in Parkinson's Disease was assessed using the APDM Mobility Lab. The APDM Mobility Lab uses wearable sensors and sophisticated signal processing to track even subtle changes in gait, stride, balance, rotation, and efficiency and range of movement in upper and lower limbs and torsos. Sensors are simply strapped on to the subject on various parts of the body, including the chest, waist, wrists and ankles. Subjects perform a standardised test and then a report is generated. For more information go to : http://apdm.com/gait-and-posture/Mobility-Lab/

Each person performed iTUG (instrumented Timed-Up-and-Go) and iSway (instrumented Sway) using the APDM Mobility Lab. They were assessed according to a range of Parkinson's Disease scores. iTUG and iSway variables differentiated people with Parkinson's Disease from people who did not. They correlated with all Parkinson's Disease severity measures. Objective scores correlated more strongly with iTUG than iSway.

The study identified sets of iTUG and iSway variables that correlate with Parkinson's Disease severity measures and differentiate people with Parkinson's Disease. The authors suggest that these gait and balance measures could therefore potentially serve as markers of Parkinson's Disease progression. They are consequently under evaluation for this purpose in the ongoing NIH Parkinson Disease Biomarker Program.

Reference : Journal of Neurological Science [2014] 345 (1-2) : 131-138 (D.C.Dewey, S. Miocinovic, I.Bernstein, P.Khemani, R.B.Dewey, R.Querry, S.Chitnis, R.B.Dewey Jr)
Complete abstract : http://www.ncbi.nlm.nih.gov/pubmed/25082782

http://www.viartis.net/parkinsons.disease/news/150211.pdf
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