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Graphical tasks to aid in diagnosing and monitoring Parkinson's disease

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LIST OF PUBLICATIONS AND PRESENTATIONS

Full papers

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Conway BA, Zietsma RC, Leenders KL, Maurits NM. Standardized handwriting to assess bradykinesia, tremor and micrographia in Parkinson's disease. *PLoS ONE* **9**(5): e97614 (2014).

Tolonen AJ, Cluitmans L, **Smits EJ**, van Gils M, Maurits NM, Zietsma RC. Distinguishing Parkinson's disease from other syndromes causing tremor using automatic analysis of writing and drawing tasks. *Accepted for publication in proceedings of the 15th international conference on BioInformatics and BioEngineering* (November 2015).

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Zietsma RC, Tijssen MAJ., Maurits NM. Reproducibility of standardized fine motor control tasks and age effects in healthy adults. *Paper under review at the journal Measurement* (2015).

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Zietsma RC, Borgemeester R.W.K., van Laar T., Maurits NM. Graphical tasks to measure upper limb function in patients with Parkinson's disease – Validity and response to dopaminergic medication. *Accepted for publication in IEEE journal of Biomedical and Health Informatics* (2015).

Presentations

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Conway BA, Zietsma RC, Maurits NM. Standardized handwriting provides quantitative measures to assess bradykinesia, tremor and micrographia in Parkinson's disease. *Poster presentation at the Movement Disorders Congress, Dublin, Ireland* (2012).

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Conway BA, Zietsma RC, Maurits NM. Standardized handwriting provides quantitative measures to assess bradykinesia, tremor and micrographia in Parkinson's disease. *Oral presentation at the 4th Dutch Bio-Medical Engineering Conference, Egmond aan Zee, the Netherlands* (2013).

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Conway BA, Zietsma RC, Maurits NM. Reproducibility and validation of standardized handwriting tasks.
Poster presentation at the Society for Neuroscience Annual meeting, San Diego, USA (2013).

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Conway BA, Zietsma RC, Maurits NM. Reproducibility and validation of standardized handwriting tasks.
Poster presentation at 30th International Congress of Clinical Neurophysiology (ICCN) of the International Federation of Clinical Neurophysiology (IFCN), Berlin, Germany (2014).

Smits EJ, Tolonen AJ, Cluitmans L, van Gils M, Conway BA, Zietsma RC, Maurits NM. The use of a modified Fitts' task to differentiate between different tremors.
Oral presentation at the XX International Society of Electrophysiology and Kinesiology Conference (ISEK), Rome, Italy (2014)

