

# mTEST3

A mobility lab in your pocket

Mobile movement analysis suite including **timed up-and-go, postural sway, and gait analysis.**

- Easy set-up
- User friendly interface
- Accurate, repeatable and robust
- Time saving
- Operator independent
- Stores patients' records
- Generates ready-to-print clinical reports
- Validated in EU granted research projects



## References

**A mobile Kalman-filter based solution for the real-time estimation of spatio-temporal gait parameters**

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**Quantification of motor impairment in Parkinson's Disease using an instrumented Timed Up and Go test**

L. Palmerini *et al.* IEEE Trans Neural Syst Rehab Eng, 21(4):664-673, Jul 2013

**Criterion validity of the instrumented Timed Up and Go test: A partial least square regression study**

A. Caronni *et al.* Gait Posture, 61:287-293, Mar 2018

**Feature selection for accelerometer-based posture analysis in Parkinson's Disease**

L. Palmerini *et al.* IEEE Trans Inf Technol Biomed, 15(3):481-90, May 2011

## Contacts

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Movement Analysis  
in One Touch®?  
Now you can!

# mTEST3

Making movement analysis as fast, objective  
and accurate as it can possibly be

**mHT**  
mHealth Technologies

**CE marked medical device**

# mTEST<sup>3</sup>

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**GAIT**

Assesses spatio-temporal gait parameters  
Two shoe-mounted sensors



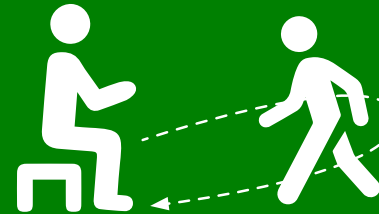
Includes standard tests, such as the 10-meter, 400-meter, and 6-minute walk tests

Assesses gait outdoors and in free-living conditions

**TUG**

Instruments  
Timed Up-and-Go (TUC) test

One waist-worn sensor



Automatically identifies sit-to-walk, walk, turn, and sitting segments

Identifies each foot contact during walking

**SWAY**

Automatically assesses body sway

One waist-worn sensor



Valid and reliable alternative to force plate-based tests

Extracts time and frequency-domain features widely used in the literature

Standardizes assessment protocols

Compares tests performed at different times

Sensors wirelessly connected to a smartphone

Successfully validated on geriatric, Parkinson's disease, stroke, hydrocephalus, spinal cord injured, and vestibular loss patients