

# GaitSmart<sup>®</sup>

Quick, easy to use gait analysis  
delivering data-driven personalised  
healthcare, for better patient  
outcomes.



GaitSmart is a sophisticated tool that allows you to measure gait in a way that is easy to communicate & understand, increasing patient compliance and improving their healthcare journey

## How we walk is an essential indicator of health

Walking is such a natural activity that most of us barely think about it. Yet how someone walks can be an accurate predictor of trouble ahead.

Changes in gait also provide an accurate measurement of progress after some intervention, such as joint replacement.

GaitSmart is sophisticated enough to handle a variety of critical healthcare concerns. These include:

### Falls Prevention

We can compare a person's gait against a known database of elderly subjects, assess their risk of a dangerous fall, and recommend intervention measures.

### Knee osteoarthritis

We can measure discomfort levels more accurately than is possible using self-reported pain scales, and detect improvement after treatment, such as with osteoarthritis drugs.

### Hip or knee replacement

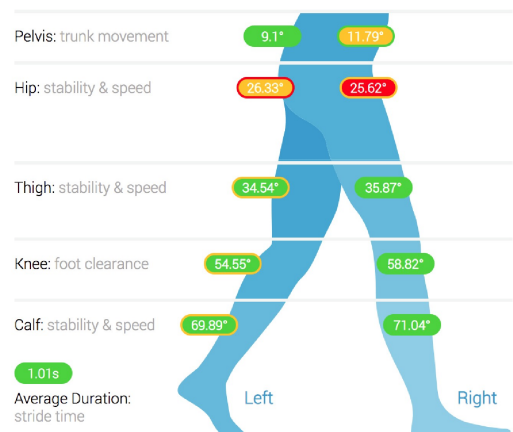
We can monitor a patient's progress after surgery more precisely than can be achieved using visual inspection.

### Clinical trials

We provide a 17-point analysis of each patient's gait before and after treatment, which delivers an outstanding biomarker for results of therapy.

GaitSmart Score™ **72.7%**

An assessment of stability & strength when walking



## Why GaitSmart?

- Reduces the need for high cost resources
- Provides objective, quantitative precise results
- Is quick, easy to use and accurate
- Increases patient compliance
- Improves the healthcare journey
- CE Marked & ISO 13485 Certified
- Used in clinical trials
- Backed by 10 years of experience

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## GaitSmart is Easy

With GaitSmart there are no video cameras, no treadmills and no special mats to walk on. The patient is fitted with comfortable straps and asked to walk normally, while the operator is guided by voice commands to start and stop the exercise. The data is then automatically uploaded to the cloud and analysed, producing a detailed report within minutes. The gait parameter results are colour-coded using a traffic light paradigm.



## GaitSmart is Accurate

GaitSmart sensors have been validated to 0.1° by The National Physical Laboratory. The GaitSmart system provides results that are more accurate and reproducible than single-sensor solutions, which make all kinds of approximations. The manufacturing and quality control processes have been certified to ISO 13485. GaitSmart is a CE marked Class 1m Medical Device.



◀ Sensor

◀ Sensor

◀ Sensor



## GaitSmart is backed by 10 years of Experience

The founders of the company behind GaitSmart are also the chief engineers. Dr. Diana Hodgins is a renowned expert in the field, having produced over 50 publications on solid state sensors and medical applications.

The company has a wealth of gait data, collected in both healthcare and clinical trial settings. This means results can be compared against healthy subjects and those with known conditions.

GaitSmart is in collaboration with

approach

UMC Utrecht

UEA University of East Anglia

Dynamic Metrics is a resident company of Johnson & Johnson Innovation, JLABS, a premier life science incubator program.



NELFT NHS  
NHS Foundation Trust

NHS  
Norfolk and Norwich  
University Hospitals  
NHS Foundation Trust

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