



**KINETIKOS**  
health

Built on science  
Moved to measure

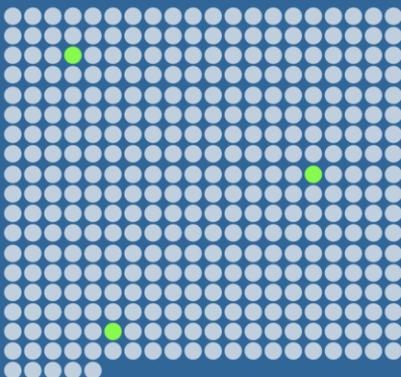
vCare Final Open Event

Cláudia Louro | 29 August 2022

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## Current PD Clinical Practice

Mobility is what make us evolve



In 365 days, PD patients are evaluated on average 2-3x a year by their Neurologist during in-person visits

The remaining day's patients rely on diaries to describe their motor symptoms and communication occurs occasionally

Clinicians lack the continuum of objective information to intervene effectively

Patients are not empowered to manage their condition

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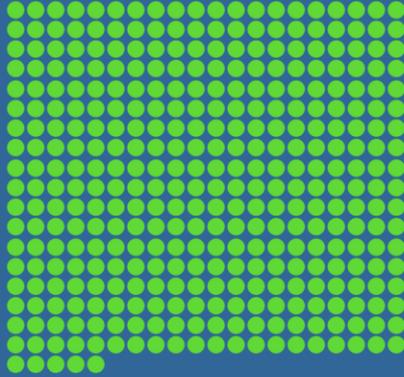
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## PD Clinical Practice with Kinetikos

Mobility is what make us evolve



Kinetikos enables 24-7-365 PD remote clinical practice to fill the gap between in-person visits

Clinicians gain access to continuum, objective and patient-centred information, allowing them to better manage their patients

Patients become connected with their healthcare team and are fully empowered to self-manage their condition

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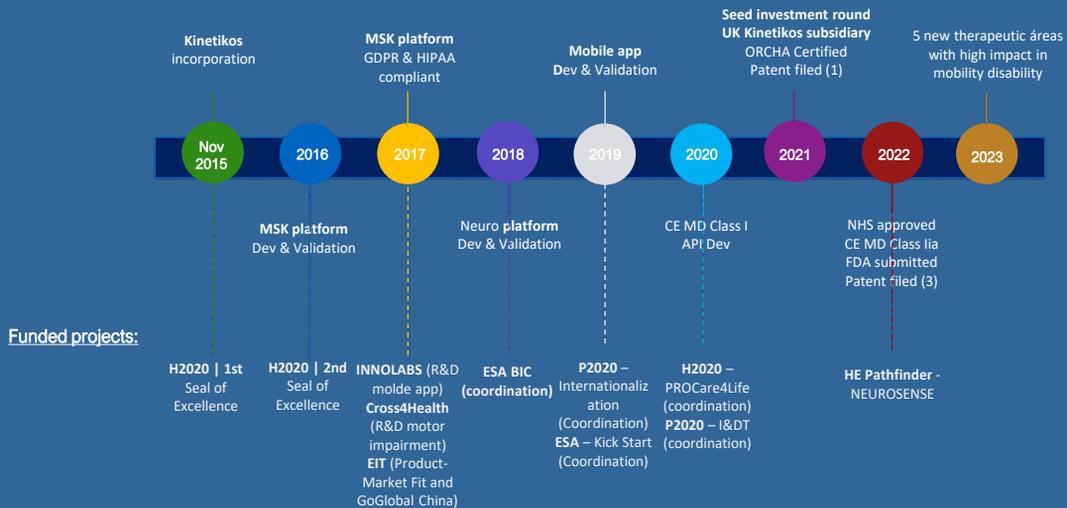
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## Kinetikos Health | Milestones

Mobility is what make us evolve



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## Research based

Mobility is what make us evolve



**sensors** MDPJ

Article  
**Feasibility of a Mobile-Based System for Unsupervised Monitoring in Parkinson's Disease**  
 Raquel Bouça-Machado<sup>1,2,4</sup>, Filipa Pona-Ferreira<sup>2</sup>, Mariana Leitão<sup>2,4</sup>, Ana Cleo Linda Azevedo Kauppila<sup>2,4</sup>, Rui M. Costa<sup>4,5</sup>, Ricardo Matias<sup>4,6,7,8</sup> and Joaqui

NEUROLOGY AND PRECLINICAL NEUROLOGICAL STUDIES - ORIGINAL ARTICLE

**Distinct gait dimensions are modulated by physical activity in Parkinson's disease patients**  
 ca<sup>14</sup>, Raquel Barbosa<sup>4,10</sup>

RESEARCH ARTICLE

**Validation of quantitative gait analysis systems for Parkinson's disease for use in supervised and unsupervised environments**  
 Sara Alberto<sup>1</sup>, Sílvia Cabral<sup>2</sup>, João Proença<sup>3</sup>, Filipa Pona-Ferreira<sup>2</sup>, Mariana Leitão<sup>3</sup>, Raquel Bouça-Machado<sup>4,4</sup>, Linda Azevedo Kauppila<sup>2</sup>, António P. Veloso<sup>2</sup>, Rui M. Costa<sup>4,7</sup>, Joaquim J. Ferreira<sup>1,4,8</sup> and Ricardo Matias<sup>4,9,10</sup>

Article  
**Smartphone-Based Body Location-Independent Functional Mobility Analysis in Patients with Parkinson's Disease: A Step towards Precise Medicine**  
 Diogo Vila-Vieira<sup>1</sup>, Mariana Leitão<sup>2</sup>, Raquel Bouça-Machado<sup>3,3</sup>, Filipa Pona-Joaquim J. Ferreira<sup>2,5,6</sup> and Ricardo Matias<sup>1,5,6</sup>

LETTERS: NEW OBSERVATION

**Unsupervised Walking Activity Assessment Reveals COVID-19 Impact on Parkinson's Disease Patients**  
 2477 over 8 months including 16 PwPD (mean a SD age, 61.1 ± 11.8 years; 3 women [19%]; mean a SD Hoehn and Yahr, 2.0 ± 0.5; 8 fluctuations [50%]; mean a SD Movement Disorders Society-Unified Parkinson's Disease Rating Scale (MDS-UPDRS) total score, 51.3 ± 26.5; part I score, 9.8 ± 5.4; part II score, 10.4 ± 7.1; and part III score, 27.6 ± 16.7). All patients were asked to register in the application when they

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## Disease Mgt. tool for PD

Cloud Platform for the Healthcare Team

Traffic light triage system to quickly identify patients in need

One-click away patient in-depth data analysis

Disease-specific objective assessments to support faster decision-making

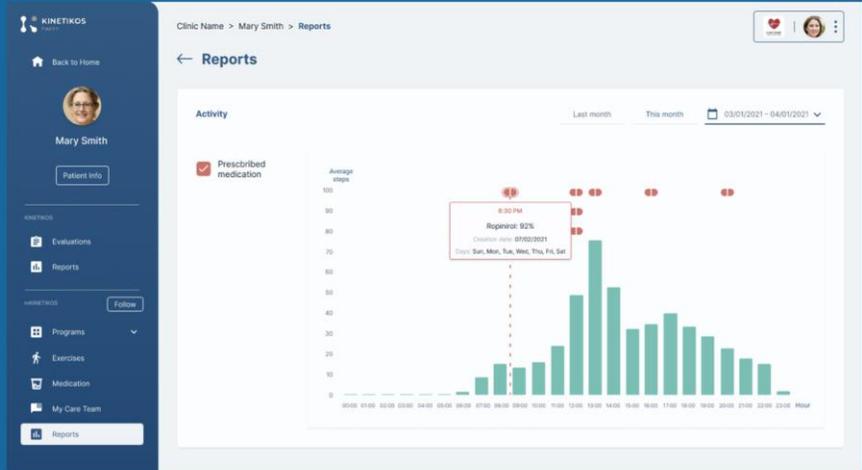
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# Disease Mgt. tool for PD

## Cloud Platform for the Healthcare Team

Clinicians can quantify the effect of medication on a patient's mobility pattern (e.g. walked distance, walking speed, etc.)

*In-depth analysis example*



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# Disease Mgt. tool for PD

Mobility is what make us evolve

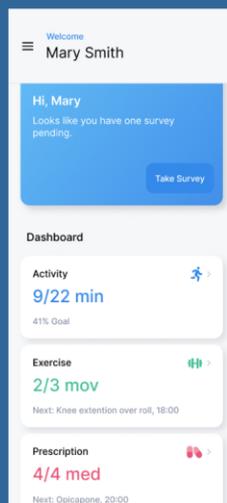
## mKinetikos™ - mobile app for Patients

Patient notification centre with pending tests or surveys sent by the clinical team

Activity report & recommendations according to clinical guidelines

Prescribed home-based exercises for a continuum intervention

Medication management & notifications to promote adherence

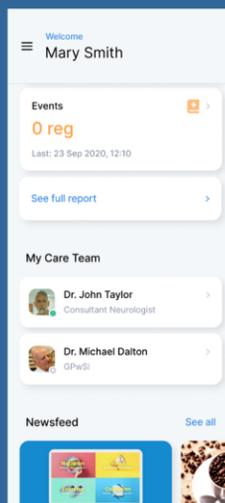


Patient-reported symptoms & events

Deeper overview of a patient progress

Communication channel to initiate follow-up with the clinical team

Curated newsfeed to help patients keep track of the most relevant information



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## Disease Mgt. tool for PD

Mobility is what make us evolve

Automatic follow-up surveys based on patients' data

Follow-up survey  
Constipation

Did you experience any of these episodes?  
You can select more than one option

Straining

Lumpy or hard stools

Sensation of incomplete evacuation

Sensation of anorectal obstruction or blockage

Manual maneuvers to facilitate defecation

Less than three defecations per week

Less than three defecations per week

Next

Follow-up survey  
Constipation

Are there periods where constipation intervals with diarrhea?

Yes

No

Next

Survey Complete!

Please see below some recommendations.  
Your answers to this survey have been saved in the reports folder. You can share the information collected with your clinical team next time you speak with them.

01. Drink water  
Staying hydrated by drinking plenty of water can help you relieve constipation.

02. Eat healthy  
Eating a diet that does not contain much fiber may contribute to constipation.

SEE RECOMMENDATIONS

EXIT

Please consult your GP

We strongly advise you to contact your doctor. We compiled a file for you to send him.

SEND EMAIL

You can also check this recommendations to improve your health.

SEE RECOMMENDATIONS

EXIT

Based on patients' answers different recommendations are given

Some examples

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## Business model

Mobility is what make us evolve

Persons with Parkinson to better manage their condition

Self care

Clinicians to better manage their patients

Notifications  
Triage  
Remote assessment

Institutions to better manage their resources

- Unnecessary outpatients consultations  
- Minimising hospitalisations  
+ Increasing efficiency

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