

# PROLEPSIS

Horizon Europe-funded project developing a novel personalised digital care ecosystem for people with PsA

# iPROLEPSIS project newsletter | Issue No.4

March 2024

Welcome! This is the fourth edition of the Newsletter series of the iPROLEPSIS project. Let's explore the latest developments and advancements in our project activities, collaborations, and upcoming events.

Inside this issue



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# A Spotlight on iPROLEPSIS

Prof. Leontios Hadjileontiadis, the coordinator of the **iPROLEPSIS** project, shares how the **iPROLEPSIS** project addresses **psoriatic arthritis** research.



**iPROLEPSIS** aims to identify triggers behind the transition **from psoriasis to psoriatic arthritis**, employing **digital models** and **everyday devices** like smartphones and smartwatches to understand disease dynamics.



Beyond research, **iPROLEPSIS** introduces practical solutions such as biAURA for pain relief through sound and serious games targeting exercise, emotion, nutrition, and pain management.



Collaborating with **15 partners**, including patient advocates, **iPROLEPSIS** adopts a co-creation approach, bridging technological innovation with real-world healthcare practices.

#### Watch the full interview here.



Screenshot from the interview.



# Ongoing preparation for the iPROLEPSIS-PDPID study

Patients with **Psoriatic arthritis (PsA)** experience difficulties in dealing with unpredictable disease activity, which can affect their quality of life. Developing a **digital biomarker using a smartphone and smartwatch** would allow for unobtrusive monitoring of the disease activity in these patients. Besides, understanding what factors trigger flare would allow for **better disease control**.

### **About**

The **iPROLEPSIS-PDPID** study is a multicentre observational cohort study that aims to develop an **unobtrusive** and **affordable** digital **biomarker** capable of detecting changes in disease activity including flare, and to **identify triggers** of flare in patients with PsA.

# **Approval granted**

Ethical approval has been granted for initiating the iPROLEPSIS-PDPID study in the Netherlands and the UK.



The **miPROLEPSIS** phone app, which is currently under development, will be used in this study. The app will be installed on the patient smartphone and utilised as a data collector, which will be then used for **algorithms development** and **training**.

### **Smartwatch**

For data collection on physical activity, heart rate, heart rate variability, and sleep quality, the **Garmin smartwatch Vivoactive 5** will be utilised.

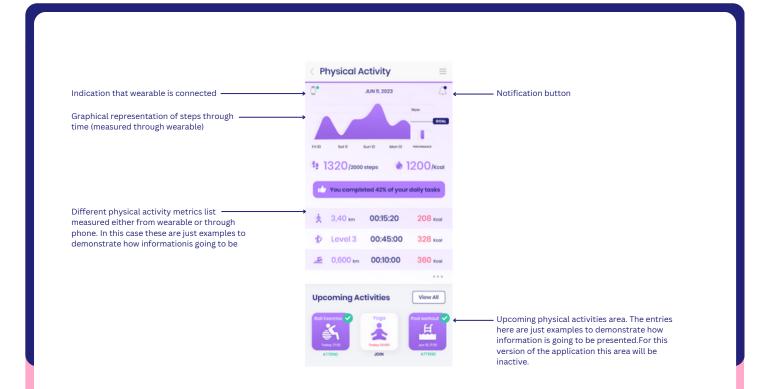
# **OpenClinica**

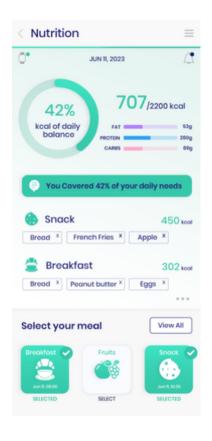
The **OpenClinica** platform will be used in the collection and storage data of the **iPROLEPSIS-PDPID** study.

### **Countries**

The study will be conducted in **four countries**: the Netherlands, the UK, Portugal and Greece.



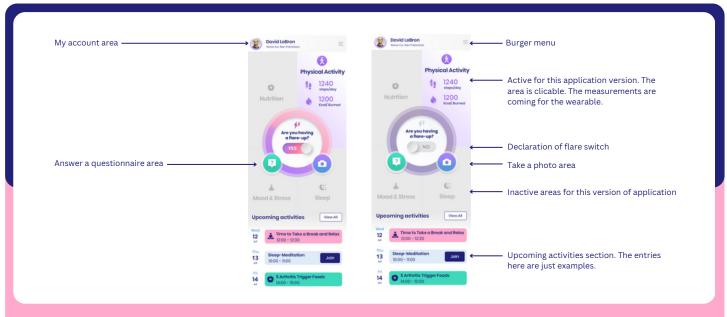




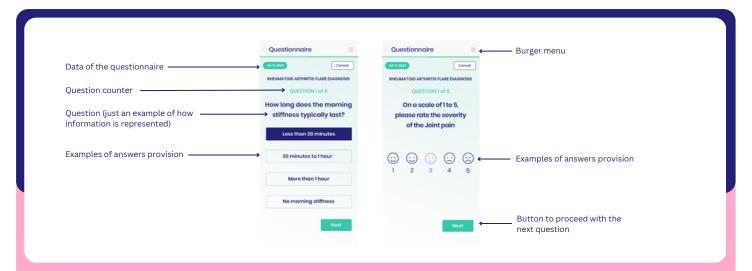




Mock-ups for physical activity, nutrition, mood & stress and sleep measurements by miPROLEPSIS application



### Start screen and flare registration button in miPROLEPSIS application



## Example of daily questionnaires in the miPROLEPSIS application



Garmin smartwatch Vivoactive 5 for collecting of data



Assessing PsA symptoms related to nails and toes



# iPROLEPSIS joins the YouTube channel



A novel digital solution for psoriatic arthritis

In January 2024, **iPROLEPSIS** joined the **YouTube** channel to boost its **online visibility** and connect with a wider audience.

Subscribe to our YouTube Channel: iPROLEPSIS - YouTube.

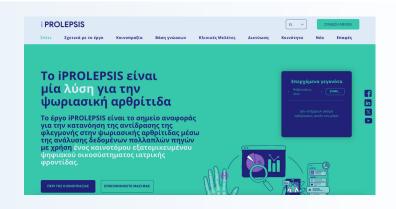
# The iPROLEPSIS Website Now in Greek and Portuguese

To strengthen our connection with the community, the **iPROLEPSIS** website is now accessible in Greek and Portuguese languages.

Explore in Greek:

https://www.iprolepsis.eu/el

Discover in Portuguese: <a href="https://www.iprolepsis.eu/pt">https://www.iprolepsis.eu/pt</a>







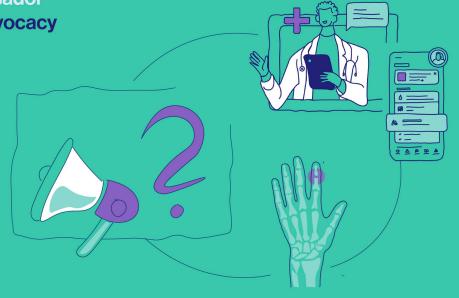
# **iPROLEPSIS Ambassadors**

Join us as an iPROLEPSIS Ambassador and help drive change in health advocacy and psoriatic arthritis awareness!

Send us a direct message, and we will provide you with more details.

Here is how you can make a difference as an iPROLEPSIS Ambassador:

- Promote the iPROLEPSIS mission
- Share iPROLEPSIS updates and developments
- Share personal stories and insights



#### **PROLEPSIS**

Calling **influencers**, **psoriatic arthritis warriors**, and **health advocates** to become project ambassadors.

Ready to be a part of the change?

Apply here.

# **iPROLEPSIS Networking Activities**

in February 2024, **iPROLEPSIS** initiated a **collaboration** to establish an ecosystem of projects funded under the call: **HORIZON-HLTH-2022-STAYHLTH-02-01**.

Our vision is to create a robust ecosystem where each project's strength contributes to advancing **healthcare** and **well-being**. By pooling **resources**, **knowledge**, and **expertise**, we anticipate significant benefits for the collaborative cluster and individual projects.

Learn more about sister projects: <a href="https://www.iprolepsis.eu/networking">https://www.iprolepsis.eu/networking</a>



# **Events**

## **Upcoming events**



PETRA 2024, 26-28 June 2024: Workshop "AGENT - MultimodAl SiGnal Sensing/Analysis, Innovative Interactive Environments, and Personalized Behavioral Modeling for Improving QualiTy-of-Life".

The workshop will be organised by the Centre for Research & Technology Hellas, Aristotle University of Thessaloniki, and Faculdade de Motricidade Humana in cooperation with the iPROLEPSIS and AI-PROGNOSIS projects.

Learn more here.

#### Past events



## >>> iPROLEPSIS 3rd Plenary meeting in Rotterdam

On 12-13 December 2023, iPROLEPSIS partners met in Rotterdam for the third plenary meeting. The agenda included workshops on the iPROLEPSIS-PDPID study, digital biomarkers, technical ecosystem development, serious games co-creation, an External Advisory Board session, and more.

Read more.









# >>> iPROLEPSIS introduced to Eli Lilly company in the Netherlands

In November 2023, Ilja Tchetverikov from CICERO Rheumatology presented the results and prospects of the DEPAR cohort and introduced iPROLEPSIS clinical studies to the representatives of Eli Lilly company in the Netherlands.

Read more.

