

In a nutshell

The NWE Interreg project PASSION-HF will assess the feasibility of the 'doctor-at-home'-app to optimize heart failure self-treatment and patient engagement. It is supported by an AI-driven integrated doctor-at-home technology platform.

The doctor-at-home will monitor the patient and give individualized medical advice. Therapy and user adherence will be stimulated by serious gaming.

Thanks to the well-considered integration of various proven technologies, the platform is suitable for patients', their families and involved health care professionals.

PASSION-HF creates a smart doctor-at-home system that increases care quality at a lower cost

Background

Heart failure is one of the most prevalent, complex and costly chronic diseases that affects around 3.6 million people in North-West Europe and forecast to rise to more than 5 million in 2025.

Digital medicine offers an important contribution to solve this socially urgent problem. However, evidence based eHealth solutions are currently not embedded in value adding care processes, which fail to integrate patient engagement.

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Smart people. Smart communication.

Interreg 
North-West Europe

PASSION-HF

European Regional Development Fund

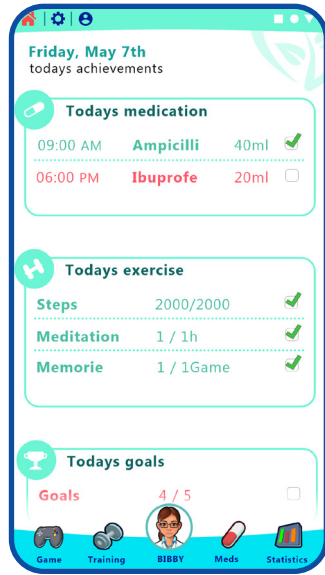


Enabling Heart Failure (HF) patients to treat themselves by using the 'doctor-at-home' app

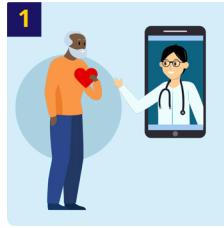
The highlights

This integrated technology platform:

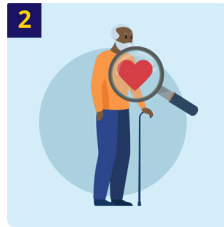
- provides a new vision of care; predictive rather than reactive.
- monitors patients health status in their home environment; 24 hours a day, 7 days a week.
- advises patients according to their needs and current treatment plan.
- helps to reduce the number of unnecessary emergency and outpatient clinic visits.
- includes medication changes adapted to their personal health status and profile.
- enhances patient adherence.
- empowers patients and their carers by educating and supporting a self-management of their condition.



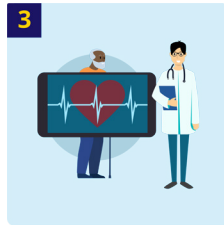
A day with doctor-at-home



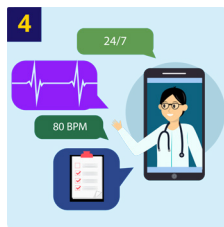
In the morning your doctor-at-home welcomes you and asks how you are doing.



If there is any sign that your health is deteriorating your doctor-at-home will detect this. It will adapt therapy, e.g. medications, to your needs.



If you feel unwell or have questions about your health your doctor-at-home can offer immediate help. In response, it will offer answers to your questions and advise you on how to manage your symptoms.



Your doctor-at-home will enable you to make informed health decisions. It offers you a sense of security in your everyday life whenever and wherever you need it.

A smart platform for informed patient self-management

Next-generation solutions will strengthen patient engagement and shared responsibility by taking advantage of decision-supporting systems. The goal is to promote a shift from a 'one-size-fits-all' towards individualized patient self-management. Artificial intelligence, personalized coaching and serious gaming are included to provide true interactive educational care. Thanks to the skills of the doctor-at-home the patient receives safe and personalized care. This is the groundbreaking significance, the paradigm shift in heart failure care, generated by the PASSION-HF project.

The long-term challenge

- The 'doctor-at-home' app, the product of the NWE Interreg PASSION-HF project, will transform healthcare from doctor-driven to patient-driven care, enabling patients' to achieve the highest level of self-care.
- Additionally, efficient self-care has a positive impact on cost-management resulting from reduced contact with health-care professionals and less hospital attendance.
- The paradigm shift supported by PASSION-HF is a key driver of digital transformation within healthcare systems. This also creates opportunities for innovative business models.