HEART FAILURE PATIENT MANAGEMENT AND INTERVENTIONS USING CONTINUOUS PATIENT MONITORING OUTSIDE HOSPITALS AND REAL WORLD DATA

retention
SMART HEART FAILURE MANAGEMENT



HEART FAILURE

Heart failure is a chronic, progressive condition in which the heart muscle is unable to pump enough blood to meet the body's needs for blood and oxygen. Basically, the **heart can't keep up with its workload**.
Due to patients' high mortality and frequent hospitalizations, heart failure places a significant economic burden on Western health systems that is expected to further increase in the future because of the increasing proportion of elderly in the population.

MISSION

RETENTION is a **HORIZON 2020** research project focusing on **clinical monitoring** and **data-driven interventions** for **heart failure patients** in need of **ventricular assist devices** and patients who received a **heart transplant**.
Its innovative solution Is conceived to support clinical decision making and evidenced based personalised interventions reducing patients' mortality and hospitalisation rates, and improving their quality of life, safety, and well-being.

CORE

At the core of the RETENTION solution, **novel data analytics** and **artificial intelligence technologies** are used to identify patterns and associations in the gathered data that can improve the clinical management of patients by developing and applying personalised medical interventions.
The RETENTION solution supports the personalization of interventions for health and wellbeing. Adapting medical interventions to the uniqueness of each person allows for predictable and powerful healthcare. It enables clinicians **to provide better disease prevention**, **more accurate diagnoses**, s**afer drug prescriptions**, and **more effective treatments**.

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