RETENTION PROJECT

retention
SMART HEART FAILURE MANAGEMENT

An innovative platform for accurate, effective and exploitable monitoring of heart failure patients

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.

Disease's effects on the population and health systems

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.

RETENTION vision

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.

Real World Data

Derived from non-medical sources outside hospitals, such as behavioural and environmental conditions, patients' social environment and/or resources, real world data are playing an increasing role in health care decisions.
Their monitoring and analysis, integrated with patients' clinical data, lead to quicker and more decisive incorporation of safe and effective interventions into clinical practice.

Data analytics and Artificial Intelligence

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.

Personalised 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, safer drug prescriptions, and more effective treatments.

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