

Partners



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Project details

PROJECT NUMBER: 101095653

PROJECT TITLE: BIOmarker based diagnostic TOOLkit to personalize pharmacological approaches in congestive heart failure

TOPIC: HORIZON-HLTH-2022-TOOL-11-01

START DATE: 1 October 2023

DURATION: 60 Months

GRANTING AUTHORITY: HADEA

EU CONTRIBUTION: 9.600.663,00 Euro

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BIOmarker based diagnostic TOOLkit to personalize pharmacological approaches in Congestive Heart Failure



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Project

Heart failure is a chronic clinical syndrome involving up to **6.5 million people in Europe**. It is the leading cause of hospitalisation in adults, yielding a healthcare cost of 17 billion euro/year.

The mortality rate is comparable/superior to several type of cancers in the EU perspective, **reaching 70% at 5-year** in the advanced stages of heart failure.

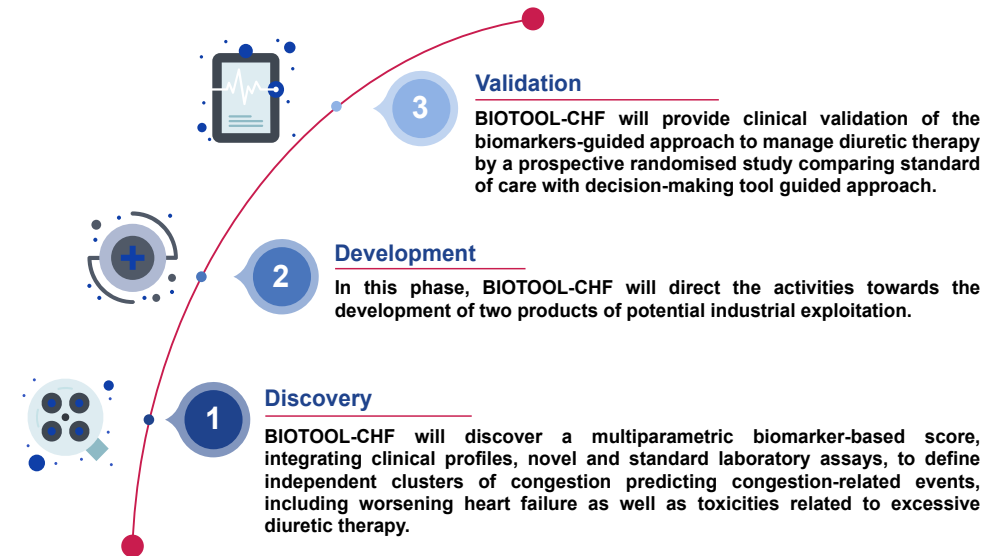
The innovation potential of BIOTOOL-CHF is built on the overall approach that will be adopted to tackle the unsolved issue of **improving the efficiency of fluid management in systolic heart failure**.

BIOTOOL-CHF research activities will lead to identification of a selected pool of biomarkers **validated for prediction of fluid overload** to be implemented in a companion **diagnostic prototype**. This tool, coupled with a fluid retention score and a prognostic score integrated with a set of specific patient characteristics, will be the basis to develop the BIOTOOL-CHF Decision-Making Tool functional **to help health care providers in managing fluid balance**.

Objectives

BIOTOOL-CHF will **discover, develop, and validate** a personalised approach to manage diuretic therapy in heart failure and reduced ejection fraction, **to reduce heart failure hospitalizations and improve the quality of life**.

BIOTOOL-CHF: conceptual framework



Impacts

BIOTOOL-CHF gathers major European **heart failure and big data analysis experts** to provide an innovative approach to the management of heart failure with reduced ejection fraction which is one of the most frequent, costly and deadly pathological conditions in Europe.

