



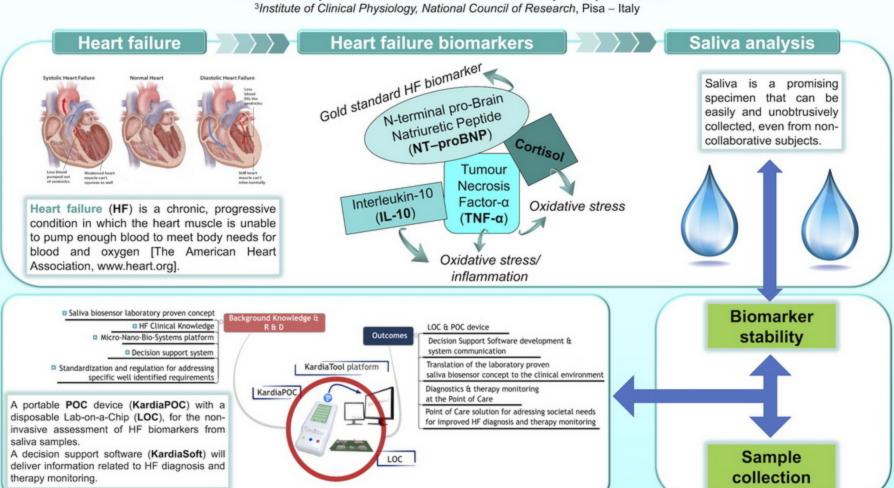




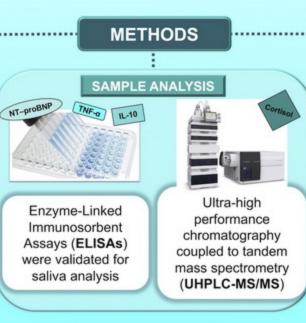


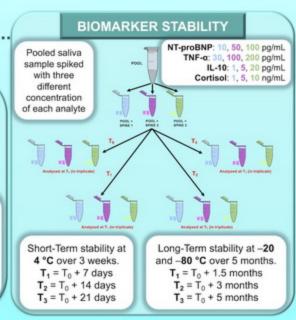
EVALUATION OF BIOMARKER STABILITY IN SALIVA FOR NON-INVASIVE DIAGNOSIS AND THERAPY MONITORING OF HEART FAILURE PATIENTS BY A POINT-OF-CARE DEVICE (HORIZON 2020 - KARDIATOOL PROJECT)

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RESULTS

SAMPLING DEVICES

- > Using passive drooling, the recovery of NT-proBNP was quantitative, in the range [40%-80%] for TNF-α, and very low for the other analytes.
- Salivette® led to a quantitative recovery of Cortisol, whereas the other analytes were recovered less than 65%.
- SOS allowed for an almost quantitative recovery of TNF-α and NT-proBNP.

BIOMARKER STABILITY

- NT-proBNP showed a quantitative recovery at -20 and -80 °C. At 4 °C only 15% was recovered after 7 days;
- > TNF-α showed a good recovery (75%) at 4 °C. At -20 and -80 °C the recovery was about 45% and 60% respectively;
- IL-10 was quantitatively recovered at 4 °C, but at -20 and -80 °C was undetectable after 1.5 months;
- Cortisol was stable throughout the entire observation period independently of temperature.