

HORIZON 2020

HEALTH PARTNERING DAY 2017

HEALTH, DEMOGRAPHIC CHANGE & WELLBEING



7 DECEMBER 2017, BRUSSELS

ICT for Health, Well-being and
Active & Healthy Ageing

Session 1. Better Health and Care

Sepsis and Organ Dysfunction as co-morbidity

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Project Idea



Sepsis as a co-morbidity

- Sepsis is a cutting edge area of research in its acute phase.
- Implications of sepsis and patho-physiological mechanisms post-ICU treatment are not very well studied. For its most severe cases (i.e. patients with central nervous system dysfunction and intubated patients), the most common complications after surviving a sepsis include:
 - Long-term neurocognitive impairment
 - Dementia
 - Cerebral damage
 - Neuromuscular damage/impairment
 - Psychological long-term effects such as insomnia, disabling muscle and joint pains, extreme fatigue, poor concentration, decreased cognitive functioning and loss of self-esteem.
- **The objectives of the proposed project are related to discovering the mechanisms of this central nervous system impairment to discover neuroprotective interventions during the acute phase and tailor interventions (both from a systemic and psychological point of view) for sepsis survivors to improve their quality of life and recovery.**

Company expertise



Sepsis as a co-morbidity

- EURECAT has extensive experience in the management of European projects.
- Our areas of expertise include data-driven modelling in health for the discovery of mediators in acute as well as chronic illnesses.
- Eurecat also has experience in systems integration in Healthcare.
- The current status of the project partnership includes a major ICU in Barcelona treating over 150 septic patients / year and a technical university.
- Our main data-source is a biobank with data from more than 1000 patients, for which we also have clinical and follow up information after sepsis survival.
- We are seeking partners in the following areas:
 - Intensive Care Units
 - End-user associations
 - SME companies willing to exploit the project results
 - Research institutions with research experience (and models) related to sepsis and its complications.



Topic



SC1-BHC-01: Understanding causative mechanisms in co-morbidities

Sepsis, co-morbidity, long-term cerebral damage, neuro-cognitive impairment, psychological Support.

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