

SEPSIS PREDICTIVE MODELLING WITH BIG DATA AND ARTIFICIAL INTELLIGENCE ALGORITHMS

INVENTORS: Servei de Salut de les Illes Balears

HIGHLIGHTS

- ✓ Predict whether a patient has early sepsis.
- ✓ Reduces mortality in patients and the resources needed to treat them.

TECH STATUS

- ✓ TRL5
- ✓ Intellectual property

Problem to be solved

This software reduces the time it takes for a patient to be diagnosed with sepsis and therefore the severity of the sepsis and the use of the software in the treatment of patients with sepsis.

Background and Technology

Sepsis is a generalised inflammatory response of the body to infection, where the intensity of the inflammatory response and the number of organs affected is directly related to its mortality rate. In Spain, around 50,000 patients are diagnosed each year, and around a third do not survive it. It is therefore one of the 10 most deadly diseases in Spain.

From this reality arises the software that our team has developed which, due to the large amount of data it presents and which is updated, allows us to predict with artificial intelligence if a patient has sepsis with the repercussions that it entails both in hospital resources and in the critical time to be able to treat the patient.

Applications

The main application of this software is the rapid automated prediction of whether a patient has sepsis for rapid treatment to reduce the potential severity.

Technology status

Intellectual property

Title: Sepsis predictive modelling with big data and artificial intelligence algorithms

Developed exclusively by the Servei de Salut de les Illes Balears.

Market Opportunity

This technology has been licensed to ADIC in December 2019 and to Adenda Covid 19 in December 2020.

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