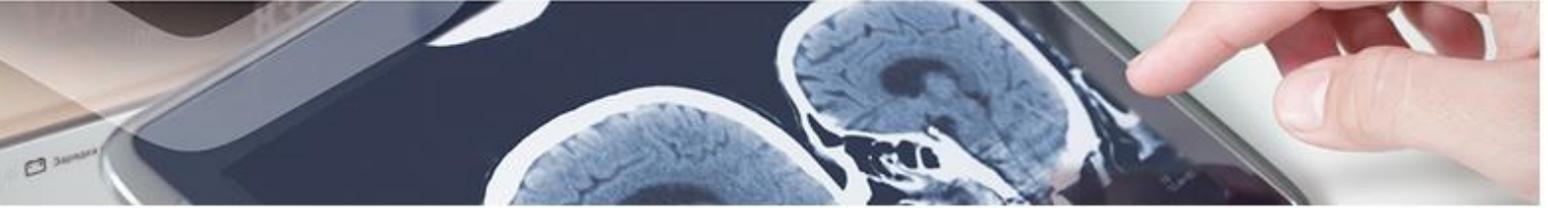


Diagnostic

Diagnosis kit for the identification of bacterial agents causing systemic infections.

A research group from the Andalusian Public Health System (SSPA) has devised a diagnosis kit for identifying bacterial agents causing systemic infections.



Description

Septicemia or sepsis is the spread of a localized infection through bloodstream. Sepsis quickly drifts in the onset of multiple organ failure and septic shock, causing high morbidity and mortality. Septic shock is the most common cause of death for patients in Intensive Care Units in the world and its incidence is increasing.

How fast selection and administration of appropriate antibiotics is done, are two factors that determine the response to treatment, so if antimicrobial treatment is inappropriate or administered too late, mortality of these patients increases.

Usually empiric antimicrobial therapy is started, using combinations of broad spectrum antibiotics. This therapy is subsequently adjusted according to the results of the blood's culture and other body fluids tests, involving long waiting time and specialized technical personnel.

The proposed kit presents itself as an alternative to the commonly used methods and presents a **fast, sensitive and specific method** which allows detection and identification of bacteria which may be present in a clinical sample.

- It provides the **same specificity** as alternative technologies, **more quickly** (on the order of minutes), against the order of hours / days of alternative methods. This allows for fast diagnostic and therapeutic decisions.

- **Improved usability**, nontechnical - dependent technology. Any healthcare professional may use this technology.

- **Lower production costs**, competitive price in the market.



Intellectual Property

This technology is protected by Spanish Patent Application.



Objectives

The research group is looking for a partner interested in a license and/or a collaboration agreement to further develop and exploit this innovative technology.



Advantages

This diagnosis kit has the following advantages over currently used systems:



Classification

Activity/Type: Diagnostic.

Pathology: Systemic Infection.

Keywords: bacterial infections, diagnosis kit.