

ITCs

## App for outpatient monitoring and diagnosis of surgical wounds infection (Scarcheck)

A research group of the Andalusian Public Health System, in collaboration with the University of Seville, has developed a mobile app that allows control of surgical wounds at home through a telemedicine system based on image.

Oficina de  
**TRANSFERENCIA  
DE TECNOLOGÍA**  
Sistema Sanitario Público de Andalucía



### Description of the offer

The surgical wound infection (SWI), and complications derived thereon, have been an inseparable consequence of the surgical practice from its rudimentary beginnings until now. A global prevalence of SWI of 5-10% is estimated in Spain, a figure that varies according to the type of surgery considered. In the case of routine surgeries or those that do not involve complexity, this rate is reduced to 1%. However, the follow-up of the wounds of these patients represents a problem in many cases since the patient must go (frequently unnecessary) to the hospital.

Scarcheck is an Android mobile app designed to establish a telematic control of the evolution of surgical wound in patients after surgery. The app functions are based on three fundamental parameters: the patient sends an image of the surgical wound to the surgeon and responds to an online test; the surgeon receives in his profile these two data as well as the pathological anatomy report of the surgical piece extracted at the time of the intervention (if any). Then, Scarcheck classifies these three parameters by severity and notifies the surgeon through its profile if there are values out of normality.

On the other hand, the surgeon through its profile has access to each patient's information, including a listing and search engine functionalities. Once the patient's profile is opened, the results of the three parameters listed above will appear and, depending on the professional criteria, the patient will receive the certificate of discharge or a notification stating the necessity to go to the primary care center for a physical examination.



### Advantages of the offer

1. **Novelty:** There is no any mobile app for this purpose.
2. **Reduction of healthcare costs:** Both for the patient, who avoids unnecessary visits to the hospital, and for the clinician that saves consultation time.
3. **Reduction of social costs** since the app avoids the absenteeism and avoidable medical visits.
4. **Low economic costs** for commercial exploitation: Available prototype for its development and commercialization.



### Intellectual Property

This technology is protected by intellectual property rights.



### Objectives

We are looking for a partner interested in a license to commercialize this innovative technology.



### Classification

Area: ITC  
Pathology: General Surgery