

## **NEW WEB 2.0. TECHNOLOGIES FOR ANTIDOTE CONSULTATIONS: ACTIVITY AND REACH OF AN APPLICATION FOR MOBILE DEVICES**

- **Clone content**

### **European Statement:**

- Education and Research

### **Author(s):**

María Mar Alañón Pardo  
Sacramento Corral Vinuesa  
Raúl Pérez Serrano  
Isabel Benet Giménez  
Alfonso Ambrós Checa  
Álvaro Díaz Castro  
Miguel Ángel García Cabezas  
Élida Vila Torres  
Carmen Encinas Barrios  
Marta Rodríguez Martínez

### **What was done?:**

The “Antídotos” application for mobile devices (APP) was developed by our Departments of Pharmacy, Emergencies, Intensive Medicine and Paediatrics to facilitate consultations by healthcare professionals on the pharmacological treatment of the most frequent acute intoxications in our setting.

### **Why was it done?:**

Acute intoxications cause significant morbidity-mortality worldwide, and their rapid treatment is vital. APP-Antídotos is the first free Spanish mobile application for toxicology research, designed to facilitate immediate access to relevant information on antidote applications in toxicological emergencies.

### **How was it done?:**

The APP contains toxicological data from the “Antidote Guidelines” developed in our third-level university hospital, based on primary (drug information sheets, original scientific articles), secondary (Medline results, using “antidotes”, “poisoning”, “hospital pharmacy department” and “guideline” as search terms) and tertiary (toxicology databases) sources of information. The Pharmacy Department was responsible for the graphic design, structural development and programming of the APP for mobile devices (smartphones, tablets) with Android or IOS9 operating systems, which could be downloaded free from Google Play or Apple Store. APP-Antídotos is organized in 31 chapters on different types of intoxication and their definition, mechanism and symptoms, with recommendations on antidotes and references. It is structured in seven sections: “Information”, “Intoxication index”, “Antidote index” (37 antidotes), “Toxin index”(>240 toxins), “Notes”, “See Antidote Book in PDF” and “Telephone for Toxicological Emergencies”.

### **What has been achieved?:**

Between April and August 2016, users downloaded 2091 installations from Google Play (72.5%-Android) and Apple Store (27.5%-iOS9); 73.6% of devices were smartphones and 26.4% tablets. The APP was downloaded from Android in Spain,

55.8%; Brazil, 5.7%; India, 5.5%; Columbia, 4.3%, Mexico, 4.0%; Ecuador, 2.7%; others, 22.0%. The distribution by language/country was: Spanish/Spain, 60.2%; Spanish/USA, 11.1%; English/USA, 7.9%; Portuguese/Brazil, 5.0%; English/UK, 4.7%; Spanish/Mexico, 1.2%; others, 9.9%. The geographic distribution of iOS9 installations was: Europe, 90.5%; Latin-America/Caribbean, 5.9%; USA/Canada, 1.4%; Africa/Middle-East/India, 0.4%, Asia/Pacific, 1.8%. Mean user evaluations were 4.6 (Android) and 5.0 (iOS9) stars (maximum of 5 stars). Fifty-four publications were found on social networks (48.2%-Facebook, 51.8%-Twitter), 444 shares, 1094 “I like” and 1045 video plays.

#### **What next?:**

The APP will be regularly updated by the authors taking user suggestions into account, and it will be translated into English to extend its reach to other healthcare.

#### **Keywords:**

- Education and research›E-learning
  - IT›Medical apps
- Patient safety›Patient safety