

Mobile application design for systemic diseases considerations in dentistry

Abstract

Every day, a large number of people in the society, from children to the elderly, receive dental services in dental clinics and offices. Some of these patients may have various systemic diseases. The possibility of systemic diseases and the type of dental interventions, including the injection of local anesthetics, can cause medical emergencies in patients and complications of their systemic diseases. Considering that one of the needs of dentists is to manage patients with special diseases and prevent medical emergencies, and considering that virtual education on mobile is one of the ways to improve people's knowledge, we decided to design an application with this theme. The required information will be extracted and classified from the books of Falace and Peterson's principles of surgery and will be presented to the programmer in the form of educational algorithms. In the future, by using the application and evaluating the impact of its use in improving the information of dentists, and by performing the final evaluation and fixing the existing problems, it will be available to dentists on virtual platforms. This software in the form of a mobile application will include the following: 1. Information related to dental considerations in systemic patients, including dental considerations in cardiovascular diseases, lung diseases, gastrointestinal diseases, Urinary-genital diseases, metabolic and endocrine diseases, immunological diseases, hematological and oncological diseases, neurological and behavioral and cognitive diseases, pregnancy and organ transplantation 2. The second part, which includes the evaluation and test of the presented contents, Dentists will be able to evaluate their knowledge by referring to this part of the application. This application will help dentists and dental students to increase their knowledge in the field of systemic disease considerations in dentistry and in addition to evaluate their knowledge.

KEYWORDS

Mobile application, Systemic diseases, Dentistry, Virtual education