

عنوان مقاله:

Smart Diabetic Screening and Managing Software, A Novel Decision Support System

محل انتشار:

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خلاصه مقاله:

Background: Diabetes is a serious chronic disease, and its increasing prevalence is a global concern. If diabetes mellitus is left untreated, poor control of blood glucose may cause long-term complications. A big challenge encountered by clinicians is the clinical management of diabetes. Many IT-based interventions such ad CDSS have been made to improve the adherence to the standard care for chronic diseases. Objective: The aim of this study is to establish a decision support system of diabetes management based on diabetes care guidelines in order to reduce medical errors and increase adherence to guidelines. Materials and Methods: To start the process, at first the existing guidelines in the field of diabetes mellitus such as ADA YolY and AACE guideline YolY were reviewed, and accordingly, flowcharts and algorithms for screening and managing of diabetes were designed. Then, it was passed on to the information technology team to design software. Results: The most significant outcome of this research was to establish a smart diabetic screening and managing software, which is an important stride to promote patients' health status, control diabetes and save patients' information as an important and reliable source. Â Conclusion: Health care technologies have the potential to improve the quality of diabetes care through IT-based intervention, such as clinical decision support systems. In a chronic disease like diabetes, the critical component is the disease management. The advantages of this web-based system are on-time registration, reports of diabetic prevalence, uncontrolled diabetes, diabetic complications and reducing the rate of mismanagement of diabetes, so that it helps the physicians in order to .manage the patients in a better way

کلمات کلیدی:

diabetes mellitus, Clinical Decision Support System (CDSS), Information Technology, Quality of Care, Clinical Performance in Diabetes Care

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