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## **DEVELOPMENT OF AN ONLINE U-MED SOFTWARE FOR PERIODONTAL PATIENTS**

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**Introduction.** Organizational work and patient management is an essential part of doctor's work, but filling paper work for every patient can be time consuming. In addition to the possibility of the documents getting lost, this can be a nightmare for both doctors and patients. Thanks to advances in technology, there are software for patient management, but they are almost always very expensive, difficult to use, and do not handle the doctor's exact needs, thus they don't make much difference to the doctors work efficiency.

**Aim:** to develop an online U-MED software for periodontal patients.

**Material and methods.** The U-MED services combine the results of getting acquainted with the patient, taking the patient's medical history, taking the patient's social history, questioning the patient on his complaints, assessing the patient's oral status, examining the teeth, making primary visual characteristics of the periodontal tissues, preliminary diagnosis and X-ray examination. It also includes a detailed examination of the periodontal tissues: presence of the supra- and subgingival dental plaque, level of the gingiva involvement in the pathological process, level of the periodontal tissues destruction, the presence of the periodontal pockets, presence of pus discharge from the periodontal pockets, level of the alveolar bone destruction, trauma from occlusion, state of periodontal microcirculation, laboratory diagnosis. The programming was tested by doctors and students at the 3rd department of therapeutic dentistry in order to compare efficiency and speed of diagnosis with and without using this program.

**Results and discussion.** U-med is the first patient management software made by doctors for doctors. It aims to be easy to use, expandable, modular and customizable. Increasing the doctor's efficiency but at the same time making it easier to manage all patient data. U-med software was developed to organize all the patient's data including medical history, clinical examination, treatment history, diagnosis and additional diagnosis, data is encrypted and saved to internet on a secure private location or locally on the clinic's computers.

**Conclusions.** Doctors should always use the latest technologies to treat their patients whether it be in diagnosis treatment or management, without these tools the doctor can't provide the best results for the patient. That is why it is always necessary to work on developing all aspects of doctor's work to achieve the best results for the patient.