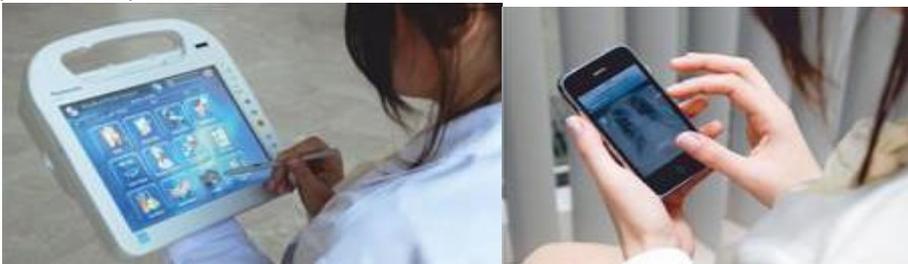


Mobility in Health Care

Nowadays, it is undeniable that all patients should be able to fully and to the maximum extent use information technologies that facilitate our lives in order to reduce the waiting time in medical institutions and organizations. Therefore, in order to reduce the time spent by patients in anticipation of receiving a doctor, it is necessary to provide the patient with the opportunity to come to the hospital at a predetermined time, the possibility to choose a medical institution and a doctor, the ability to follow the procedures performed distally and, also, distally, to have access to survey results.

Today, 80% of health facility managers are in dire need of mobile communications. The use of mobile applications, by 30 percent reduces the number of medical errors, compared to the level of those when performing all actions manually. Healthcare professionals who work actively using the capabilities of mobile applications save up to 40 minutes of work time per day.

It is well known that now it is objectively obligatory for the doctor to instant and full access to all patient data, the possibility of instant data entry, remote response and execution, and monitoring of requests and procedures.



Reducing the number of medical errors, optimizing time resources, improving the clinical workflow, greater reliability against the background of cost control - these are the key points that are carefully monitored by the heads of medical institutions.

Thus, the complete elimination of excess time spent by the patient in the hospital, outside the time spent on his treatment and diagnosis is one of the main tasks of quality medical care. For this reason, in order to provide access to electronic medical data and provide quality medical services, there is an urgent need to support mobile platforms. Mobility can be a factor that really saves lives, when the account goes on for a second and human life is at stake.

On the other hand, today, when technology is dizzyingly spreading in all areas of our daily lives, medical care and rehabilitation, examination, analysis and treatment of elderly patients and people confined to bed should also be carried out in their familiar home environment surrounded by family, but not within the walls of a medical institution.

The speed of delivery and the safety of medical services, which are becoming increasingly important every day, are now becoming their integral part. The guaranteed ability to securely access real-time data and mobile data entry from different locations provides countless benefits: data entry for each patient separately and online access to data, faster workflows, reduced medical errors, improved patient and employee safety, increasing the level of satisfaction of patients, their relatives and employees of medical institutions, the formation of a more rapid and effective decision-making process, raising our efficiency by establishing more effective communication.

The main thing that patients expect in the process of receiving treatment is access to skilled, promptly provided and people-centered medical services. Quality in the context of the provision of medical services is defined as the transfer of these expectations to a higher perfect level. Improving access opportunities and improving quality, regulating business processes, strengthens the links of those with information processes. Mobilization, frees the working processes of medical institutions, putting them beyond physical limitations and limits.



Mobility, which manifests itself in all aspects of our life, becomes more and more an integral part of it every day. Day by day, our time becomes of special value, and the way to success lies through effective management of it. When considering the time factor through the prism of the health field, as a key one, the importance of the effective use of a temporary resource increases tens of times. Even while on the move, everyone needs access to information and the ability to process it. For this, it is expected that the devices are compatible with the processes associated with wireless infrastructure and software. The need for a mobile phone in the world is now even higher than the need for other electronic devices, and, according to experts, over the past 2 years the growth rate of the number of smartphones in our country is 300%. In the opinion of experts, it is also expected that at the end of 2011, touch screens will be 75% of mobile devices, the touch screen function on mobile devices will come to the fore when they are selected, and the Internet will be used by 85% of mobile devices. We can say that these forecasts have already come true in our day.

Now, broadband technologies, mobile applications and platforms are available that provide the ability to perform, through smart PDAs and mobile phones, the operations that have been performed from desktop programs and access from anywhere in the world. Thanks to 3G-connection to the GSM Internet, operators were able to increase the number of successfully implemented applications in the field of mobility.

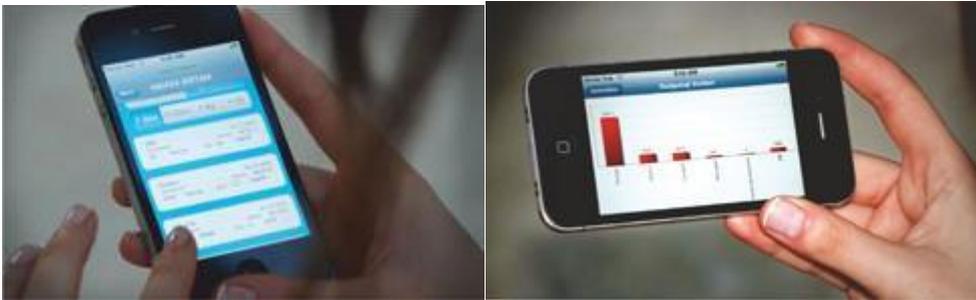
Medmobile -Mobile Systems MCA (Medical Clinical Assistant) Application for Tablet PCs

Physicians and medical personnel can instantly access patient information and related electronic records using a tablet PC. Thanks to its ergonomic design, the devices are easy and simple to carry and carry with them anywhere in their location. The lack of a fan on such devices ensures safety and hygiene in a vulnerable hospital environment, and primarily in resuscitation and operation departments. The design and characteristics of the device allow them to be wiped and cleaned for disinfection purposes.

Quick and easy data entry is provided with a digital pen on the tablet PC. The operations selected and highlighted on the touch screen are performed quickly and accurately. Handwritten data, notes and explanations are instantly converted to electronic format and registered in MedHBYS (Clinical Data Management System). Using the camera of the tablet PC, it is possible to take a picture of the

part of the body that the patient complains of, or an existing wound, and thus track the healing / healing process.

iPhone/iPod Touch Apps:



The principle of the iPhone application, which is an application for smartphones, is based on the process of remote request and provision of information about the patient and electronic medical records. The request function is preferable to physical data entry because the iPhone screen size is not suitable for input.

Using Medmobile for iPhone, doctors can immediately and fully request access to information about patients, regardless of time and place. Quick, easy and safe access can be obtained to the MedHBYS system even without being near the patient, and tracking all the actions and procedures implemented during the course of therapy in the survey and prescribed treatment.

In an application in an electronic environment, the doctor's request, the conclusion of a laboratory, radiological examination, the conclusion of the examination results and other actions of the Picture Archiving and Communication System (PACS) are mobilely formed. With high-quality data transfer, thanks to high-speed Internet, provided with 3G support and a powerful iPhone processor, access to information displayed in the smallest detail is provided. Requested PACS images of a patient with a high file resolution and data from the conclusion of many types of examinations are very quickly displayed. Since the application does not work by opening the browser-based Internet, but in the application format for the iPhone, a high speed is achieved.

The sensitive touch screen supports user-friendly programming interfaces designed specifically to display softened visual effects when navigating between application pages. Due to the high resolution of the screen retina, all texts, images and objects are clearly visible and easily readable. The software for iPhone visualizes images with animated graphical content.

iPod Touch, connected to the system via a wi-fi connection, can also work in an integrated manner. iPod Touch offers more economical solutions compared to devices iPad, iPhone.

When you enter the iPhone, the Medmobile application displays a list of medical facilities on the login screen, which use and are connected to the application. After choosing a medical institution, depending on the user's definition, a transition to the interface is made. The operational interface contains entry fields that provide access to information about patient monitoring and statistical data. If the user is identified as the leading official of the medical institution, the screen also displays the option of requesting statistical information along with information about the procedures for monitoring the patient. Hospital administrative personnel have the right to request information on the number of complaints broken down by medical institution, the status of the number of beds, can request data from the radiological department, data on appointments to the doctor, data on the appointment of the Council, and other statistics for a certain period of time . As part of the patient

management activities, patients' medical records, vital signs, inspection findings and mobile PACS images can be requested.

iPad Apps:



Flexible, simple user-oriented tablet interface iPad, creates a tablet PC platform that can support such large-scale corporate applications like the iPhone. Due to the properties of the interface, a web user or desktop user can partially adapt one and transfer it to a smaller screen, as well as thanks to a wide touch screen, the possibility of vertical and horizontal use, and so on. Characteristics of the device has a number of undeniable user benefits. The Medmobile software application, available for free download from the App Store to the iPad, which is an intermediate product between the smartphone and laptop, provides a healthcare solution. Get access to the content of the application on the iPhone ve iPad, connected using 3G and wi-fi technology, using the user name and password. Since the system is initially designed to perform actions and monitor the treatment of inpatients, and the screen size is suitable for data entry, the input function is executed simultaneously with the information request function.



With the Medmobile iPad application, doctors can instantly get full access to information about inpatient patients, regardless of time and location, and send a request and enter data. Intelligent iPad keyboard, search box help fast and correct data entry. Mobile data entry, transferring diagnostics, treatment and surveillance data to electronic format, allows even more rapid introduction of electronic medical records and provides the possibility of studying patient data in the presence of the patient in real time. In an application in an electronic environment, a physician's request, a consultation conclusion, a laboratory, a radiological study, an inspection report, a request for inspection and other actions of the Picture Archiving and Communication System (PACS) are mobilely formed. Administrative staff of medical institutions can request statistical data on the hospital with breakdown at certain time intervals, both inside and outside the medical institution. The requested information is provided in the form of a report with animated graphic elements. Doctors using the iPad Medmobile application quickly access the images of PACS and the results of several types of examination.

Analysis of the general benefits of Medmobile applications:



All actions, requests for the patient are performed promptly without loss of time. Instant recording of data and requests by each application to the MedHBYS system prevents loss of information. Registration of information in a common unified database provides simultaneous access to patient information from both desktop software and mobile platforms. Avoiding errors resulting from the lack of data on who performed the procedure, as a result of incorrect reading or the impossibility of reading the documents written on paper, significantly increases the amount of correctly entered medical data. Instant and accurate recording and monitoring of data prevents the inadequacy of information that may arise due to inattention, forgetfulness and lack of information in the data entry process. Thus, the level of efficiency and productivity of the doctors is increasing. Saving working time allows medical professionals and medical personnel to devote more time to the care and treatment of patients. Optimization of time resources provides an improvement in the indicators of the clinical work process. High efficiency of medical specialists is ensured. An increase in the indicators of accurate diagnosis and the appointment of the right treatment leads to greater effectiveness of patient monitoring and data management. Access and the ability to interpret data as the probability of a medical error decreases and the time taken to make decisions, provides an increase in the time to provide a direct medical service, improve the quality and safety of services. A healthy data generation process and a decision-making process are provided. Carrying out consultations in the mobile environment, ensuring the receipt of reliable survey results and diagnosing, speeds up the process of interpreting the results and drawing up conclusions.