

STUDY FUNCTIONS OF PHARMACY SOFTWARE IN THE USA AND UKRAINE

Nazarkina V.N., Kurylenko Yu.Ye., Deineka A.S.

National University of Pharmacy, Ukraine

econimica@ukr.net

Automation in the healthcare system is currently one of the most popular areas of development. According to the analytical company «Grace Market Data» for the next 5 years, automation in the pharmaceutical market will grow annually by an average of 10%. Thus, research in the direction of analysis of the most common automation programs for pharmacy networks is relevant.

Therefore, the aim of our study is to analyze the functions of software used by pharmacies to automate activities in Ukraine and the United States.

The study used materials from publications of open sources on the Internet, official websites of companies providing software in Ukraine and the United States. The generally accepted research methods were also used, in particular the generalization of information.

Currently, the main functions of automation include: compounding; inventory management and re-ordering of medicines at a low level of supply; appeal to doctors for replenishment of stocks or explanations; decryption of telephone messages of the patient or the doctor; introduction or updating of personal or insurance information of patients; detection of potentially dangerous drug interactions, etc.

In Ukraine, the most common are «ANR Pharmacy» and «Software Complex Pharmacy». Functions of the program «ANR Pharmacy»:

- automatic markup of drugs; inventory of stocks;
- retail sale of goods;
- return to suppliers of goods;
- automatic defect formation; printing of price tags and labels;
- internal coding of medicines;
- moving goods between warehouses or pharmacies;
- availability of a directory of medicines;
- storage of quality certificates in electronic form;
- flexible discount system; availability of analytics; etc.

One of the features of the program is the formation of reports and filtering them by 106 items. This saves a lot of time, allowing you to focus on target ratio control and analytics. Despite the wide range of features of the program, most features are purchased separately, and to work you need to buy a server and additional licenses. Some functions are designed for high professionalism and require knowledge in the field of inventory management.

«Pharmacy Software Complex» in turn has a number of opportunities that can be divided into 4 categories: for the owner, manager, pharmacist, marketer. The main functions are:

- complete information about the product, its synonyms and related products; search by batch code;
- name or manufacturer; automatic recognition by Morion codes;
- automatic markup; printing of price tags and stickers; online reservation of goods, automatic calculation of needs and distribution of goods by suppliers;
- optimization of balances between departments; inventory; work with hospitals;
- control of pharmacy employees; compatibility with accounting systems;
- various analytical forms and reports.

Among the disadvantages is that the data is integrated and exchanged only with the program "Pharmacy Pharmacy".

In the US, the most common programs for pharmacy automation are «Pharmaserv», «McKesson», «RxGENESYS». In general, among the classic functions that coincide with the functions of programs in Ukraine, there are additional ones that are aimed at the patient and are related to compulsory health insurance.

«Pharmaserv» is a local solution for pharmacy management system helps to manage the work of pharmacies; dispensing of medicines and medical care of patients; there is the ability to support multiple placements and perpetual inventory.

«McKesson» program that has integrated EMV chip card matching technology; ability to process NFC payments (for example, Apple Pay, Google Wallet, Samsung Pay); remote software update and support for fast deployment of new payment capabilities; PCI (payment card industry) compliance is confirmed by the latest industry security standards. «McKesson» is the oldest and largest healthcare company in the nation, serving more than 50% of U.S. hospitals and 20% of physicians.

Support for PCI P2PE certified devices, which reduces PCI for PCI auditors. Increase patients' adherence to treatment by making sure they receive prescription drugs on time. RxGENESYS is a Windows-based pharmacy management system. Used mainly by small and medium-sized pharmacies to manage prescriptions and daily processes. There is a module for patient care; receivables; inventory tracking, etc.

Thanks to automation, it is possible to save time and improve processes, increase the efficiency and productivity of the pharmacy by reducing waiting time, processing and increasing throughput by assessing technological needs and expanding the range of pharmacy services.