Delivering Affordable Health and Medical Information Systems

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How ELEKS brings decades of digital healthcare experience to civilian and military providers and patients

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The power of digital healthcare

In today's rapidly evolving healthcare landscape, the significance of Medical Information Systems (MIS) and Health Information Systems (HIS) has never been more pronounced, particularly within developing countries. These systems empower healthcare providers with precise and timely medical data, facilitating superior patient care and diagnosis, while simultaneously streamlining administrative processes and improving resource allocation.

The integration of MIS and HIS is not just a step towards modernizing healthcare infrastructure; by harnessing the power of these systems, developing countries can leapfrog traditional barriers to healthcare and elevate the overall quality of life in these regions, fostering resilient, responsive, and inclusive healthcare systems.

MIS AND HIS SYSTEMS

01

A Medical Information System focuses on the clinical aspects of healthcare and is used primarily by doctors and nurses to manage medical data in the course of providing patient care and diagnosis.

02

In contrast, a Health Information System handles a broader set of data and processes related to resource allocation, finance and administration, and the facilitation of information exchange with insurers, suppliers, public health authorities, and other external health stakeholders.

03

In some healthcare environments, HIS and MIS functions may be performed independently by separate software applications and may or may not include some degree of interoperability or data exchange. In other situations, a single integrated solution may be preferred, where MIS and HIS functions are combined in a unified multifunctional application.

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ELEKS' innovative health solutions

DOCTOR ELEKS: A PROVEN MIS + HIS SOLUTION WITH 1000'S OF DEPLOYMENTS

ELEKS' flagship healthcare software solution is Doctor ELEKS. Doctor ELEKS has been at the forefront of developing and implementing Medical and Health Information Systems (MIS/HIS) since 2005.

Doctor ELEKS is in use by over 1,500 civilian hospitals, clinics, and medical networks in Ukraine, Poland, and Moldova. In 2017, with funding assistance from the US Army's Office of Allied Information Technology (AIT), the Ukrainian Ministry of Defense (U-MoD) chose Doctor ELEKS as the standard MIS solution to modernize the Ukrainian military medical system.

 A military-specific variant was developed and has been deployed to military hospitals across Ukraine. In addition to being a leading provider in the healthcare technology sector, Doctor ELEKS has become a pivotal partner to government-sponsored healthcare digitization and reform efforts in both Ukraine and Poland.

With interfaces tailored to specific users and optimized for flexible use with PCs, tablets, and mobile phones, the Doctor ELEKS system is an integrated MIS and HIS solution, comprised of ten key workspaces:

INTEGRATED WORKSPACE	DESCRIPTION
Physician (MIS)	Patient profiles, clinical data capture, interactive health indicator dashboards, medical imagery, automated record generation
Nurse (MIS)	Barcode creation, referral processing, prescription tracking
Hospital (MIS)	Bed management system, patient location and logistics
Laboratory (MIS / HIS)	Digital sharing of test results, integrations with external labs
Reception (MIS / HIS)	Provider scheduling, patient appointment management
Communication (MIS / HIS)	Patient communication hub, follow-up surveys, push notifications
Warehouse (HIS)	Inventory management, delivery tracking, expiration controls
Finance (HIS)	Account management, pricelists, procurement, etc
Administration (HIS)	Staff management, role assignments, facility coordination
Reporting (HIS)	Clinical reports, management dashboards, eHealth integrations

Additionally, Doctor ELEKS enables dozens of data integrations with external entities, interfacing with DICOM medical imaging exchanges, third-party diagnostic equipment, payment gateways, public health authorities, and more.

eMIS: ALGORITHM-DRIVEN DIAGNOSTICS AND ADVICE

In 2023, ELEKS partnered with Clinical Healthcare Analytics (CHA) to drive the next evolution of Doctor ELEKS, by integrating their specialized predictive diagnostic algorithms and tools with the Doctor ELEKS platform.

The resulting product, called eMIS (Enhanced MIS), uses CHA's Predictive Analytics Enterprise Suite to make it easier for care providers to see patient medical history, predictive analytics results, and evidence-based best practices. eMIS provides real-time early warning analysis

at the point of care to predict and monitor developing acute disease states, throughput measures, readmission risks, and utilization review.

ELEKS' eMIS capability equips providers with the latest in diagnostic and prescriptive technology while retaining the cost-effectiveness of the underlying Doctor ELEKS platform. Well suited for use in a variety of clinical settings, eMIS has been developed especially for use by partner nation military medical forces.

CUSTOM SOFTWARE SOLUTIONING FOR THE HEALTHCARE INDUSTRY

In addition to the Doctor ELEKS and eMIS software packages, ELEKS has a long track record of developing tailored technology solutions for healthcare clients, ranging from telemedicine mobile applications and regulatory-compliant patient assessment tools to claims management software and assistive technology for patients with limited mobility.

Our solutioning services cover the full spectrum of support needed to take a project from a rough concept

to a fully-realized operational impact. With Business Consulting, Technology R&D, and Product Design services, we help clients refine their visions and lay out a detailed roadmap to implementation.

Our Software Engineering, System & Data Integration, and Cybersecurity for Healthcare offerings make those ideas into reality, in a secure and interoperable way that fully accounts for the needs of the customer's technical, regulatory, and stakeholder environments.

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The ELEKS Approach

ELEKS is a global leader in affordable software solutions, with decades of experience supporting commercial clients, government customers, and other public sector entities in areas such as public health and energy management. Originally founded in Ukraine and now headquartered in Estonia, ELEKS has over 2,000 employees on three continents, including offices in Chicago, Buenos Aires, Berlin, Tallinn (Estonia), Poland, Croatia, and Ukraine.

Our experts are organized around Centers of Excellence, which ensures high-quality solutions, career progression, and proficiency with the latest technology. The ELEKS team has a robust track record of delivering high-impact technology solutions through our three types of offerings: custom software development, software products (like Doctor ELEKS and eMIS), and enterprise implementations.

ELEKS CENTERS OF EXCELLENCE

2000+
top tech experts,
middle and senior level

Software engineering
& Development Office

Quality Assurance Office

Project Management
Office

Business Analysis Office

Product Design (UX)
Office

Customer Support
Office

Information
Development Office

Development (Dev) and
IT operations (Ops) Office

Data Science Office

Information Security
Office

Cybersecurity Office

Custom Software
Development:

python   Java   .NET   C++   JS   php   iOS   ANDROID

ELEKS Specialty
Products:

appygas   DAKAR eleks   DOCTOR eLEKS   eMIS   PANOPTIC

Enterprise
Implementations:

Dynamics 365   SAP S/4 HANA   odoo   ORACLE   salesforce   Office 365

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About ELEKS

ELEKS is a global software engineering and technology consulting provider. For more than 30 years, we have built custom software solutions that support the business growth of our clients.

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Rzeszow, Poland
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