

ICZ



[ ICZ AMIS\*HD® ]

## OUR VISION

To develop a hospital information system based on two decades of experience in dozens of hospitals in the Czech Republic, which combines an outstanding spectrum of functionality with elegant and straightforward operation.

The flagship of our product line for medium to regional and faculty hospitals is the brand new hospital information system ICZ AMIS\*HD®.

This solution has been developed in the Czech Republic and is one of the state-of-the-art systems on the European market. It offers a complex spectrum of information support for modern healthcare institutions and directs them toward the concept of a fully digital workplace.

ICZ AMIS\*HD® supports all operation agendas from outpatient department

to inpatient departments, hospital management, support of the medication chain and operating rooms as well as certain highly specialized agendas, such as neonatology and obstetrics.

The significant benefit of the ICZ AMIS\*HD® line is the thin client technology, which substantially accelerates implementation, minimizes workstation requirements, makes the solution a multi-platform one and provides universal support of mobile devices, such as tablets, smartphones, readers etc.



 **ICZ AMIS\*HD**

## THE HEART OF A PAPERLESS HOSPITAL

We introduce an advanced generation of a complex hospital information system based on more than twenty years of experience in dozens of healthcare facilities in the Czech Republic and worldwide. We introduce the heart of modern, safe and human electronic health care.



## ICZ AMIS\*HD® MODULES

The ICZ AMIS\*HD® hospital information system forms a compact and organically integrated line of modules and tools fully covering all needs of a healthcare facility. ICZ AMIS\*HD® meets all the needs of paperless operation from outpatient facilities, specialized advisory centers, day centers to inpatient departments, intensive care units and specialized departments, such as neonatology and obstetrics. It provides strong tools to the whole healthcare operation, such as sophisticated planning, ordering, operating rooms management and elaborated set-up for health care reports sent to insurance companies.

- ▶ ICZ AMIS\*HD® Outpatient Department
- ▶ ICZ AMIS\*HD® Binary Storage
- ▶ ICZ AMIS\*HD® Course of Disease
- ▶ ICZ AMIS\*HD® Final Report Editing
- ▶ ICZ AMIS\*HD® Electronic Medication Administration Records
- ▶ ICZ AMIS\*HD® Electronic Medication Chain
- ▶ ICZ AMIS\*HD® Hospital Admission
- ▶ ICZ AMIS\*HD® MediBuilder
- ▶ ICZ AMIS\*HD® Neonatology and Obstetrics
- ▶ ICZ AMIS\*HD® Scheduler
- ▶ ICZ AMIS\*HD® Operating Rooms
- ▶ ICZ AMIS\*HD® Healthcare Documents
- ▶ ICZ AMIS\*HD® Patient Reviews
- ▶ ICZ AMIS\*HD® Handy Storage
- ▶ ICZ AMIS\*HD® Structured Medication

## SOLUTION CHARACTERISTICS

- ▶ Support for mobile devices (tablets, readers...)
- ▶ User ergonomic dynamic graphical environment
- ▶ Healthcare costs optimization

### Web-based technology

Low station requirements, no end installation

### Complete integration with the previous AMIS\*H line

No conversions, simultaneous operation

### High degree of integrability (SOAP, HL7, DASTA...)

Easy integration with other hospital systems

### Paperless operation readiness

Availability of components for electronic signatures and the long-term, safe storage of healthcare documentation

### KEY PROPERTIES

- ▶ Complex and modern hospital information system
- ▶ Concept fully supporting digital (paperless) hospitals
- ▶ Full backward compatibility with the AMIS\*H line
- ▶ The design and logic of operation brings a brand new and modern solution
- ▶ System compliant with the specifics of the Czech healthcare system as well as global trends



#### **ICZ AMIS\*HD® Outpatient Department**

Our solution accentuates the nature of work of physicians and nurses in outpatient departments: the primary requirement was fast and easy operation, straightforward orientation in the patient's documentation and continuous access to a wide range of the most used tools, such as prescriptions, order forms or electronic lab test results. Our work is guided by long-standing cooperation with health professionals employed in outpatient departments and analysis of their requirements and habits across specializations.

The module significantly supports care planning and scheduling of patients.

An important element is the implementation of outpatient workflow including electronic waiting rooms (closely linked to the ICZ AMIS\*HD® Scheduler Module), work support for doctors and nurses, outpatient reference, reports and a semi-automatic reporting system for insurance companies.

#### **ICZ AMIS\*HD® Hospital Admission and ICZ AMIS\*HD® Course of Disease**

Together with the ICZ AMIS\*HD® Outpatient Department Module, the ICZ AMIS\*HD® Hospital Admission Module forms the crucial part of the solution from the view of clinical users. This is one of the reasons why we paid particular attention to it and focused on a detailed examination of the practical needs and requirements of users. The result is a unique choice of functions, easy operation and elegant controls.

In general the solution enables healthcare documentation administration in inpatient departments. Thanks to this Module the patient's healthcare documentation can be accessed efficiently, directly through visualized room and bed capacity utilization. The Module is intended both for doctors and nurses and covers the whole inpatient department agenda, complex hospital documentation administration including all reports and statistics. Support of standard inpatient documentation (admission report, course of disease, epicrisis, rounds support, discharge report and others, including the workflow procedure for approval) is a natural part of the system.

The Module is organically connected to other parts of the solution, so that the users get a homogenous view of the patient's status and treatment options at different levels including the managerial view of executive workers.

The ICZ AMIS\*HD® Course of Disease Module is a crucial step towards the full digitalization of inpatient department operation. It enables all continuous records to be administered electronically. The user interface facilitates easy orientation in the course of disease, medication records, using dials, and predefined texts and offers many more useful tools. Together with a mobile device, such as a tablet, it becomes an exceptionally strong tool of completely paperless operation.



#### **ICZ AMIS\*HD® Final Report Editing**

Final reports are closely linked to hospital admission. The philosophy of the ICZ AMIS\*HD® Final Report Editing Module is based on our understanding of the importance of the healthcare facility discharge report, as it is often the key document for further treatment of the patient. Whether the facility concerned is a general practitioner's office, outpatient specialist or another inpatient healthcare facility, the final report will serve as the foundation for external and internal work of other health professionals. The Module enables generating a well arranged, representative and detailed report together with the approval procedure (workflow), version control, import of other documentation parts, such as lab results, structured medication or using predefined document structures.

#### **ICZ AMIS\*HD® Electronic Medication Administration Record, ICZ AMIS\*HD® Electronic Medication Chain and ICZ AMIS\*HD® Structured Medication**

Medication funding is a substantial component of healthcare institutions costs. Medication mistakes, including potential medication interactions or contraindication also represent one of the possible risks related to providing health care.

For that reason the ICZ AMIS\*HD® system includes a complex solution of software and hardware components supporting a general rational medication policy focused on continuous improvements in patients' safety and operation economy.

The ICZ AMIS\*HD® Medication Chain Module includes support of the process as a whole as well as its individual parts. The solution thus addresses the issues of dispensary, handy storage, structured medication and mobile reader.

The solution uses information recorded in the dispensary or clinical information system and contains tools for handy storage, the so-called „e-prescription“, support of structured medication administration, records of administered and used medication and also support of medication policy management.

All modules are integrated and enable work in different stages of the treatment or prevention process, for both outpatient and inpatient care or management of the healthcare facility as a whole. The modules introduced here are connected to the ICZ AMIS\*HD® Handy Storage Module, which facilitates the complex administration of clinical department storage supporting logistics and operation economy.



#### **ICZ AMIS\*HD® Neonatology and Obstetrics**

The modules provide specialized functions for the sphere of the Obstetrics and Neonatology Department including electronic support of newborn report and registration form, delivery room operation, mandatory statistical reports (NZIS), scoring (APGAR, also separately for the Obstetrics Department and the Neonatology Department). Moreover it offers a standard set of tools for the operation of the inpatient department, outpatient department and advisory centers.

#### **ICZ AMIS\*HD® Scheduler**

The imaginary golden thread going through the whole solution is the emphasis on planning, scheduling and structured time management. The ICZ AMIS\*HD® Scheduler Module is an effective tool enabling complex planning and scheduling of patients, staff and a whole range of resources (devices, operating rooms, rooms, beds). The module extends into all parts of the solution. Planning is fully graphical with a drag-and-drop support.

The ICZ AMIS\*HD® Scheduler is based on modern management processes and work organization in healthcare facilities. Its aim is to provide full electronic support to planning within the healthcare facility operation. The fully graphical environment facilitates easy planning and administration of scheduling patients, operating rooms operation and other areas. The ICZ AMIS\*HD® Scheduler works with different levels of user authorization, which makes it easily accessible to users performing different activities within the healthcare facility.

The solution enables scheduling patients in outpatient departments, hospital admissions, the operation program or instruments allocation (e.g. rehabilitation equipment). This efficient planning tool contains a well arranged and intuitive interface enabling the easy entering of new events and simple plan comprehension. Parameters can be set individually for the organization unit, including their selected definition (to the level of individual healthcare workers), time limit definition, working hours etc.

#### **ICZ AMIS\*HD® Operating Rooms**

The ICZ AMIS\*HD® System includes a special ICZ AMIS\*HD® Operating Rooms Module, designed exclusively for surgical fields, including support of operating rooms. It contains the full operating rooms agenda, including operative planning, electronic operating and anesthesiology protocol, which are related. The module implements operation workflow aimed at supporting the whole surgical procedure and key data transfer (pre-operational examination, anesthesiology protocol, operating protocol, separately charged material, separately charged treatment) to the respective roles (requesting physician, operating surgeon, assistants, anesthesiologist, instrument nurse...). It includes elements of patient safety (e.g. instrument records) and is closely connected to the record and economic functions. Another set of functions is the support of specialized forms and functions for surgical fields in outpatient as well as inpatient practice, emphasizing the speed and flexibility required by the field.



#### **AMIS\*HD® Healthcare Documentation and ICZ AMIS\*HD® Patient Reviews**

The ICZ AMIS\*HD® Healthcare Documentation Module introduces a unique and revolutionary concept of electronic healthcare documentation, as in practical operation it can fully replace paper documentation and thus save the time of the healthcare staff. The mobile oriented ICZ AMIS\*HD® solution is based on clinical practice and has been developed in close cooperation with the leading faculty facility in the Czech Republic. This exceptional product includes a number of new features, such as automatic scoring diagrams, intelligent data entering, safety staff checks and customized print outputs.

The solution was developed so that the healthcare staff would have continuous access to the necessary information. It is ready to be used in mobile devices, such as tablets and smartphones.

The electronic healthcare documentation is organically incorporated into the whole ICZ AMIS\*HD® information system.

Thanks to a strong tool for healthcare documentation administration, such as the ICZ AMIS\*HD® Patient Reviews Module, the healthcare staff gets a completely new view of working with documentation in a digital form. The module is ready for completely paperless operation and enables quick and simple comprehension of different types of documents, their classification, labeling and complete administration.

#### **ICZ AMIS\*HD® MediBuilder**

This module adapts the use of our solution for different characters of healthcare operation in a fundamental way. It is a graphical tool for system administration, which enables easy process modulation, creating detailed individual forms or order forms and combining them with other parts of the system. When managed by an administrator, this tool becomes efficient help for building a highly individual solution, which accentuates the particular requirements of the management, the sites and the individual users. Thanks to the ICZ AMIS\*HD® MediBuilder Module, new solution components for specialized departments can be created, which cannot be covered by the ordinary range of hospital information systems. ICZ AMIS\*HD® MediBuilder is another stage in the development of a completely unique solution on the Czech market.

#### **ICZ AMIS\*HD® Binary Storage**

Multimedialization and the increasing trend to process other types of documentation have led us to a strong interconnection of images, sound and audiovisual documentation within the whole of the solution. The ICZ AMIS\*HD® Binary Storage Module makes all types of multimedia data easily accessible from any part of the system, always through an intuitive interface. The module enables the easy administration of audio and video recordings or photographs, their classification, hierarchical ranking and visual and text labeling. Import from a digital camera or direct dictation from the system is now very simple.

Within the region of Central Europe the ICZ Group is one of the significant providers of application program equipment, design and infrastructure implementation and information system safety solutions. The portfolio of its products and services is continuously being developed in the field of information and communication technology. All services including custom application development and projects for information protection and safety are provided to the customers on the basis of a wide spectrum of platforms and technologies.

## ABOUT ICZ GROUP

The fundamental work principle of the ICZ Group is based on a long-term relationship with the customer. The goal is to be more than an information and communication technology provider. Most of all, ICZ wishes to be a partner increasing the productivity and efficiency of its customers.

The main goal of the ICZ Group is to accommodate the requirements and needs of the customer. A thorough understanding of the customer's issue and its internal processes is crucial in the solution development.

The presented solutions cover the area of application program equipment, system integration, safety, communication, infrastructure and management and document administration.

The products and services are provided within the fields of public administration, health care, telecommunication, energetics, transport, defense, finance, manufacturing and logistics.

The founding unit of the ICZ Group, ICZ a.s., was established in the late 1990s by merging the leading Czech and Slovak companies in the field. These companies have been on the market since the early 1990s and were important entities in the sphere of information and communication technologies. The area of their interest gradually extended to Ukraine, Azerbaijan and Kazakhstan. Lately, business cooperation has also been developing in the Middle East and in Africa.

ICZ a.s. is based in Prague, in the Kavčí Hory Office Park, with branches and other companies within the ICZ Group located mostly in the Czech Republic and Slovakia as well as in other countries.



## WHERE WE ARE



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