



# ICZ ePACS®

## Efficient healthcare data exchange across the Czech Republic

ICZ ePACS® is a telemedicine tool for the easy exchange of patient image documentation among healthcare facilities. Better and faster cooperation significantly increases diagnosis speed. It enables consultation among experts available to any facility regardless of distance.

*„I use the ICZ ePACS® system to send data to speed up life-saving procedures during emergency transfers of patients. I also frequently receive images from other departments for review, and sometimes I request older images since only the older documentation can be used to compare the current images of the examined patient body area and help with diagnosis and elaboration of disease development.“*

*MUDr. Bc. Martin Horák, IRDG Department Specialist at Na Bulovce University Hospital in Prague*

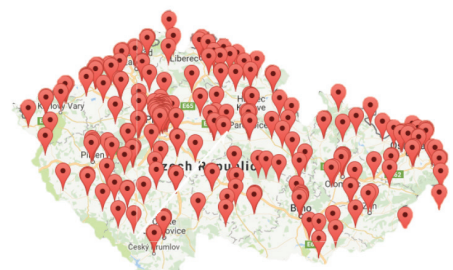
### [ EXCEPTIONAL SCOPE THROUGHOUT EUROPE ]

ICZ ePACS® is one of the most successful eHealth projects in Central Europe. This national project connects over 300 healthcare facilities in the Czech Republic, including the largest and most prestigious.

This project strives to provide the high availability and robustness of an image information centre by establishing a primary site in the Coordination Centre for Departmental Health Information Systems data centre while keeping the original centre in the General University Hospital as a backup. This project is connected to the Unified Technology Platform (UTP) used by individual physicians and healthcare facilities to access medical registers. This integration enables access to the website directly via the UTP environment for private physicians.

#### BASIC PROJECT INFORMATION

LOCATION	Czech Republic
TIME PERIOD	2017



[ ICZ ePACS® ]

[ TELEMEDICINE - A HEALTHCARE REVOLUTION ]

Telemedicine introduces a new dimension in healthcare provision. Using state-of-the-art technology, we can demonstrably save more lives, shorten treatment times and lower healthcare costs. Our solution, based on telemedicine, provides for fast, safe and reliable exchange of patient image documentation, and demonstrably shortens and improves patient treatment with a simultaneous reduction in costs. ICZ ePACS® is a decentralized solution, so is not prone to failures, and provides a highly secure and especially reliable electronic documentation exchange method. ICZ ePACS® is based on a communication infrastructure consisting of a main communication node and individual communication nodes in healthcare facilities. Encrypted VPN communication is established between the nodes to provide safe data transfer between healthcare facilities. The communication itself is based on the DICOM international standard, and data routing is managed thanks to the "central" addressing of all the nodes. The sending and receiving of documentation is completely controlled by the healthcare facilities. Nobody can interfere with the documents or systems of others using ICZ ePACS®.

- ▶ A very effective solution for dealing with emergency patient situations in specialized expert departments (consultations before a patient's transfer to a neurosurgery department, for example).
- ▶ Consultations among experts regardless of distance.
- ▶ Exchange of image documentation during patient transfers between healthcare facilities, even in non-emergency situations.
- ▶ Searches and completion of previous image examinations during the current residential treatment of a patient.
- ▶ Expert consultations, "second readings" and sometimes even "first readings".
- ▶ Patient examination using specialized devices owned by only some healthcare facilities.



Thanks to the affordable costs and easy deployment, ICZ ePACS® is also suitable for small and private healthcare facilities.

[ WHY ICZ ePACS®? ]

The ICZ ePACS® project builds, expands and maintains communication infrastructure for safe and trusted image data exchange between healthcare facilities and individual private physicians within the healthcare system of the Czech Republic. The Coordination Centre for Departmental Health Information Systems (CCDHIS), authorized by the Ministry of Health of the Czech Republic, is the organizer and sponsor of this project. CCDHIS took over this role from the General University Hospital in 2016.

**The ePACS® network currently links over 300 healthcare facilities and this number grows every month. All large healthcare facilities in the Czech Republic use this system.**

ICZ ePACS® provides your healthcare facility with the possibility to easily send and receive patient image documentation and consult it remotely with other specialists or departments.

Medical personnel will not register any additional burden, only benefits. ePACS® behaves absolutely transparently and users keep working with their current systems.

ICZ ePACS® eliminates the need to complicatedly distribute documentation on detachable media or even developed on film. Just click a single button to send it in a safe and reliable way - immediately and regardless of distance.

**COMMERCIAL CONTACT**

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