

# INNOVATIVE SOLUTION FOR THE AUTOMATION OF BREAST CANCER SCREENING

SYSTEM OF INTERPRETATION,  
RECOMMENDATIONS AND STATISTICS  
FOR MAMMOGRAPHIC SCREENING



**YSAR+** Joint-Stock Company is the leading Russian developer and integrator of IT systems in the field of healthcare. The company have been working in the IT market has been for over 25.

Our partners from regions of Russia, CIS, Asia, the Middle East and Europe trust us.

The priority of **YSAR+** is the development, implementation and service maintenance of the newest IT systems in the sphere of healthcare. **YSAR+** – is the developer of software systems for the automation of screening programs: breast cancer, lung cancer, cervical cancer.

System-based approach, collaboration of highly qualified analysts, consultants and programmers under the leadership of experienced managers allow for implementation of projects of all difficulty levels, meeting the highest demands of customers.



## GLOBAL TREND:

the growth of oncological diseases and increase mortality.  
One way to deal with this – detection of diseases in the early stages, highlighting the need for diagnostics through implementation of screening programs.



## COMPREHENSIVE PLATFORM FOR SCREENING MAMMOGRAPHY.

Competence Center – highly qualified specialists at regional and federal levels.

Quality control of diagnostics through the introduction of the second and third independent opinions.

Educational program for the primary X-ray diagnostic imaging specialists.

The system of diagnostic support for doctors via Formal Protocol framework implementation.

Auto mated data exchange through telemedicine.

A single database archive for all healthcare providers.

The formation of standardized statistical reporting using structured Protocol.





## SORS-MS CONSISTS OF A SYSTEM PLATFORM AND FORMALIZED PROTOCOLS FOR X-RAY IMAGERY INTERPRETATION.

The system platform allows to:

- transfer medical data between different healthcare facilities;
- keep medical data in a single archive;
- receive independent second and third opinion remotely;
- provide remote access from workplaces to educational databases;
- generate statistical reports on any data, included in the Formalized Protocol of the diagnostics data;
- evaluate the quality of screening programs at all stages;
- create a unified national register of patient data.

The system is integrated with X-ray archive and hospital information system.



## A FORMALIZED PROTOCOL consists of:

- a set of features to describe the screening and provide support for decision-making;
- a text editor that creates a printable form based on the completed data.

The Formalized Protocol, thanks to data standardization according to the generally accepted BI-RADS standards, allows to simplify and streamline radiologist workflow, and also improve the quality of X-ray imagery interpretation.

Automated screening using the SORS-MS software:

- accelerates the processing of examination results at all stages in X-ray imagery interpretation;
- reduces the time between examinations;
- performs subsequent previews of examinations in independent mode;
- facilitates workplace educational process.



## FORMALIZED ULTRASOUND PROTOCOL

Image analysis in real time.

Provides an assessment of pathological changes, establishing the cause of pathology.

Allows you to assess the structure of the identified pathological focus.

Used to control biopsy.

In a formalized Protocol , the following features are recorded:

- The volume of adipose tissue;
- Characteristics of ferrous compounds;
- The condition of the milky ducts;
- The density of the walls of ducts.

The System integrates with the Radiological Archive and Hospital Information System.



Access and opportunities,  
depending on the level  
of competence



Knowledge  
base



Users

## PROJECT OBJECTIVES

Informational and educational support of medical professionals.

Standardization of breast cancer screening.

Improvement and acceleration of the educational process for radiologists.



The ability to instantly contact  
an expert and get a second opinion.

Get access to the educational  
knowledge databank.





Quality control quality control of interns  
and young specialists.

Ability to independently create content in the  
educational knowledge databank.

Access to financial statements.

Multi-level system architecture.

Universal integration gateway provides data exchange with external information systems.

The following tasks were solved:

- guaranteed delivery of digital format documentation;
- scalability of the system;
- built-in videoconferencing client;
- two-way exchange of DICOM data with PACS archive;
- automatic comparison of two formalized protocols;
- electronic digital signature of documents;
- flexible system of statistics and analytics.







On-line service 24 | 7.

Service can be rendered remotely.

Web-based registration database for users.

Access to YSAR+ technical support by phone.

Access to YSAR+ databases of advanced self-testing,  
reporting problems online (Web, e-mail).



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*Thank you for your attention!*

