

## **The evaluation of DSS SonaRes - the initial results**

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SonaRes is a decision support system for ultrasound diagnosis of hepato-pancreatic-biliary zone. It is intended to guide examination process, ensuring the following functions: access to a collection of images annotated by experts, possibility of finding similar images, documenting the examination process and generating the standardized reports.

The system is destined to different categories of physicians: from the novices to the experienced ones. Obviously, its usefulness can be appraised only after an assessment made by the physicians-users who give their views on the relevance of the conclusions offered by the system, the impact on their conclusions, standardization of protocols etc. For this purpose the system was tested by two groups of physicians: the experienced ones and interns, being conducted on a test sample of 132 patients with cholecystopathy.

Users' attitude was examined according to the following criteria: quality of conclusion, its argumentation, obtaining a detailed report on detected organic ultrasound changes.

It was determined a higher positive perception of the novice users (including those in training). Both groups evidenced high appreciation of conclusions argumentation. The more experienced physicians showed less interest for conclusions generation.

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Bio3: Mr. Serghei Puiu, ultrasonographer, full time district specialist in prenatal ultrasound Women Healthcare Center Dalila, Chisinau, Moldova, assistant to the Radiology and Medical Imaging chair, carries on Course of Ultrasonography, State University of Medicine and Pharmacy "Nicolae Testemitanu", also has private medical practice. He is Secretary of Society of Ultrasound in Medicine and Biology of Republic of Moldova, author of 26 scientific papers, applicant for the degree of PhD in medicine working on the thesis "Informational tools for ultrasonographic examinations of hepato-pancreatic-biliary zone pathologies". He participated in 6 projects, including 3 international, regarding informational tools for assistance of medical ultrasound investigation.