



Abbott

DATA HARMONIZATION TRANSFORMS LABORATORY WORKFLOW

Center for Molecular Diagnostics,
Central Research Institute of Epidemiology
Moscow, Russia



ALINIQ ANALYZER MANAGEMENT SYSTEM: Expert middleware that connects analyzers, automation systems and the LIS to reduce manual labor and saves operating costs by standardizing and automating time-consuming data management tasks to improve test result TAT and reduce human errors.

CLIENT BACKGROUND

The Center for Molecular Diagnostics (CMD) in Moscow is a division of the Central Research Institute of Epidemiology of Rospotrebnadzor. The laboratory serves private medical centers and public healthcare organizations across the whole of Russia, and receives around 20,000 different samples per day. As part of the Central Research Institute, the laboratory is also actively engaged in the introduction of new assays, as well as participating in etiological diagnostics of socially significant diseases.

CHALLENGES

Over the previous decade, CMD had grown from a small department handling just 15 to 20 samples a day, to one that employs about 50 doctors and 100 laboratory technicians, and operates 24 hours a day, seven days a week. It now occupies an area of more than 1,500 square meters, 800 of which are dedicated to serum testing, and is equipped with more than 30 analyzers. Today, the laboratory performs more than 1,500 different types of test, including immunoassay (IA) and clinical chemistry (CC) – which account for half of the samples tested – as well as hematology, microbiology and PCR.

CMD management needed to do more within the same budget, offering a broader test menu and improving turnaround times. To cope with the ever-increasing sample numbers, the laboratory relocated to larger premises and embarked on a planned growth program to enhance capacity and productivity, minimize manual practices, streamline workflows, and optimize IT infrastructure. CMD considered two approaches: total laboratory automation (TLA) or a data management system. After a thorough analysis of CMD's workflow, AlinIQ AMS was considered the most cost-effective solution for the laboratory's needs, and a staged implementation was initiated.

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HOW ALINIQ AMS HELPED

“AlinIQ AMS provides all the features we particularly wanted, including auto validation and the capability to specify rules for repeat analysis and reflex testing. Harmonization and consolidation of data is a real asset to our doctors, enabling them to access the results of all the tests performed on a sample and carry out a delta check. This increases their confidence in the lab results and helps them to provide a better assessment of the patient’s condition and any associated risks. Prior to AlinIQ AMS, we did not use auto validation at all, today, we use it for around 40 percent of tests. Thanks to this functionality, doctors are engaged in what they should be doing; dealing with complex cases. As a result, clinicians and patients receive results faster or, in difficult cases, with expert support. Working with Abbott has transformed our laboratory, allowing us to do more, better and faster.”

– Dr Elena Tivanova, Head of Analytical Planning

RESULTS, RETURN ON INVESTMENT AND FUTURE PLANS

- In the five years following AlinIQ AMS implementation CMD was able to increase their capabilities. They expanded their test menu from initially offering 70 different tests to now offering 140. Simultaneously, they decreased their turn-around time by 50% as previously manual processes were automated
- Productivity also improved as CMD was able to increase the number of tests processed by 4x, growing to 20,000 samples per day, while also seeing productivity per staff member increase 3x
- CMD experienced a 225% return on investment including an average of 1,309 days saved annually by reducing man-hours for aliquoting and manual verification. Their return on investment also included an average annual savings of \$31,408 by reducing the amount of consumables used

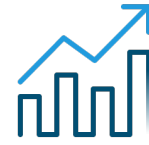
“Today, with AlinIQ AMS, we are handling four times more samples and have doubled the number of new tests offered – with the same number of staff.”

–Larissa Telminova, Head of Clinical Diagnostics

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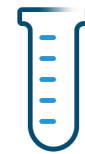
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3x

Staff Productivity Improved
3x and Number of Tests
Processed Increased 4x



140

Test Menu Increased From
70 to 140 Even As Staff
Productivity Improved



\$31,408

Annual Savings from
Reduced Consumables



225%

Return on Investment

