

# Healthcare System Analyzes and Reports on Millions of Tests with Labvantage Medical Suite



## Replacing Separate Legacy Systems with One Modern Web-Based LIS

Public health, healthcare, and dental care account for 90 percent of the \$1.2 billion USD budget for a large healthcare system where millions of patient test results are analyzed and reported today with LabVantage Medical Suite.

The suite is an all-in-one multidisciplinary laboratory information system (LIS) for clinical chemistry, microbiology, pathology, hormone, environmental medicine, and genetic laboratories.

The healthcare system serves a population of 353,000 across 45 health centers, 14 of which are owned by private companies. The region's residents have a freedom of choice of which health center they use.

LabVantage Medical Suite was deployed to replace four separate legacy systems with one modern web-based LIS, enabling the healthcare system to increase accessibility and integrate the disciplines of clinical chemistry and microbiology. Other expected benefits included more effective and improved operations, improved patient status tracking and easier access to patient's historical records.

**LabVantage Medical Suite replaced four separate legacy systems in one healthcare system to support three hospital labs and 30 primary care labs with a total of 340 users.**

A project manager in charge of the LIS project managed a team of 15 experts with a variety of specialties, while the IT planning manager managed the steering committee of seven representatives from Procurement, IT, Medical Diagnostics, and Laboratory Medicine.

The system selection process included a strict rating system comparing the suppliers themselves and system functionality.

"In the beginning, two of the three suppliers evaluated were quite even. We met them and specified what was included in their solutions," said the Project Manager. "We also looked at the price – not only the one-time payment but also how much the solution would cost over the years to come."

## The Connected Lab through the LIS Control Center

LabVantage Medical Suite has been in daily use since 2012. The system has approximately 340 users in laboratories at three hospital and in 30 primary care laboratories.

"As our laboratories carry out 4.3 million test results annually, LabVantage Medical Suite is pretty handy in analyzing and verifying whether the results are O.K. or not. The results are ready for the patients, either electronically or in paper format. Moreover, LabVantage gives us compiled statistics of our operations for us to further elaborate," said the IT Planning Manager.

The healthcare system leverages the ability to easily integrate numerous analysis instruments into the system: altogether it has 60 analytical instruments connected in the three hospital laboratories and over 80 instruments in primary care.



## Success Through Collaboration and Active Engagement

All in all, the project team launched the project on-time, even as the steering group tightened the timetable. “The project went very smoothly. Special thanks goes to our project steering group which prepared the delivery contract, provided sufficient resources, and guaranteed that everything was proceeding. Equally, our success factors included the competent, devoted, and united project group – as well as our cooperative supplier,” said the Project Manager.

The Project Manager and IT Planning Manager also speak well of the collaboration across organizational boundaries and working roles, as well as proper project communication in-house and between the healthcare system and the LabVantage Medical Suite implementation team.

After the primary implementation, the healthcare system’s project group and the LabVantage Medical Suite team have had follow-up meetings every half year, fixing possible bugs, defining prevailing needs, and prioritizing further developments.

“It is a well-functioning system indeed. We have continuously updated it and put new functionalities into use” said the Project Manager. “One ongoing project is expanding the number of connected instruments within primary care laboratories.”

Having had both hands on the system implementation, the Project Manager has a word of advice for anyone planning a similar process: “Do the requirement specifications carefully before the project. Moreover, we have learned that it is crucial to allocate resources for the project in your own organization, and to reserve enough time. Those who will be using the system must actively participate in the project.”

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— IT Planning Manager

In addition to clinical chemistry and microbiology, other important integrations include an order scanning solution, web service to patient demographics, debiting system, and integration to the data warehouse. The healthcare system has also started to use the logistics functionality – information related to distributing and receiving samples within and outside the LabVantage LIS.

**FOR MORE INFORMATION** on LabVantage Medical Suite, visit [labvantageclinical.com](http://labvantageclinical.com).



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### ABOUT LABVANTAGE SOLUTIONS

A recognized leader in enterprise laboratory software solutions, LabVantage Solutions dedicates itself to improving customer outcomes by transforming data into knowledge. The LabVantage informatics platform is highly configurable, integrated across a common architecture, and 100% browser-based to support hundreds of concurrent users. Deployed on-premise, via the cloud, or SaaS, it seamlessly interfaces with instruments and other enterprise systems – enabling true digital transformation. The platform consists of the most modern laboratory information management system (LIMS) available, integrated electronic laboratory notebook (ELN), laboratory execution system (LES), and scientific data management system (SDMS); and, for healthcare settings, a laboratory information system (LIS). We support more than 1500 global customer sites in the life sciences, pharmaceutical, medical device, biobank, food & beverage, consumer packaged goods, oil & gas, genetics/diagnostics, and healthcare industries. Headquartered in Somerset, NJ., with global offices, LabVantage has, for four decades, offered its comprehensive portfolio of products and services to enable customers to innovate faster in the R&D cycle, improve manufactured product quality, achieve accurate record-keeping, and comply with regulatory requirements.

**For more information, visit [www.labvantageclinical.com](http://www.labvantageclinical.com).**