Case Study:

Hospital Group of Mulhouse and the South Alsace Region



Supporting Laboratory Decision-Making with HemoHub™ Intelligent Data Manager

This case study highlights the impact of **HemoHub Intelligent Data Manager** on the workflow of the Hospital Group of Mulhouse and the South Alsace Region (GHRMSA) in France. By connecting its Hemostasis testing systems with a central HemoHub Intelligent Data Manager, the hospital group simplified its laboratory workflow—significantly improving efficiency in the Hemostasis Laboratory.

HEMOHUB

Improving workflow in a health system laboratory

The largest non-university public health system in France, GHRMSA is comprised of nine hospital sites with more than 2,700 beds. Laboratory accreditation requirements necessitated an improved workflow.

The challenge: Centralizing and standardizing the validation process

Due to growing accreditation requirements, the Hemostasis Laboratory staff at GHRMSA sought an automated solution to improve efficiency and optimize workflows—one that would manage all Hemostasis testing and automate technical validation in one central location for results obtained from any analyzers across their hospital network.

They also wanted a solution to automate pre-analytical sample checks and detection of interferences related to Hemolysis, Icterus and Lipemia (HIL) for all tests.



"With the requirements of laboratory accreditation, we needed to minimize hands-on technical work so our staff could focus on other tasks, such as documentation and management of reagents, quality control and results."

—Dr. Inès Harzallah, Pharmacist Biologist, Head of the Hemostasis Laboratory at GHRMSA

The solution: Centralized management for Hemostasis testing with HemoHub Intelligent Data Manager

In the Hemostasis Laboratory at GHRMSA, two ACL TOP Family 50 Series Testing Systems and one ACL AcuStar Testing System perform a broad menu of both routine and specialty tests with HemosIL reagents. To connect the systems, the Laboratory selected HemoHub Intelligent Data Manager. The implementation process included bi-directional connections, from the laboratory information system (LIS) to HemoHub, and from HemoHub to the three analyzers.

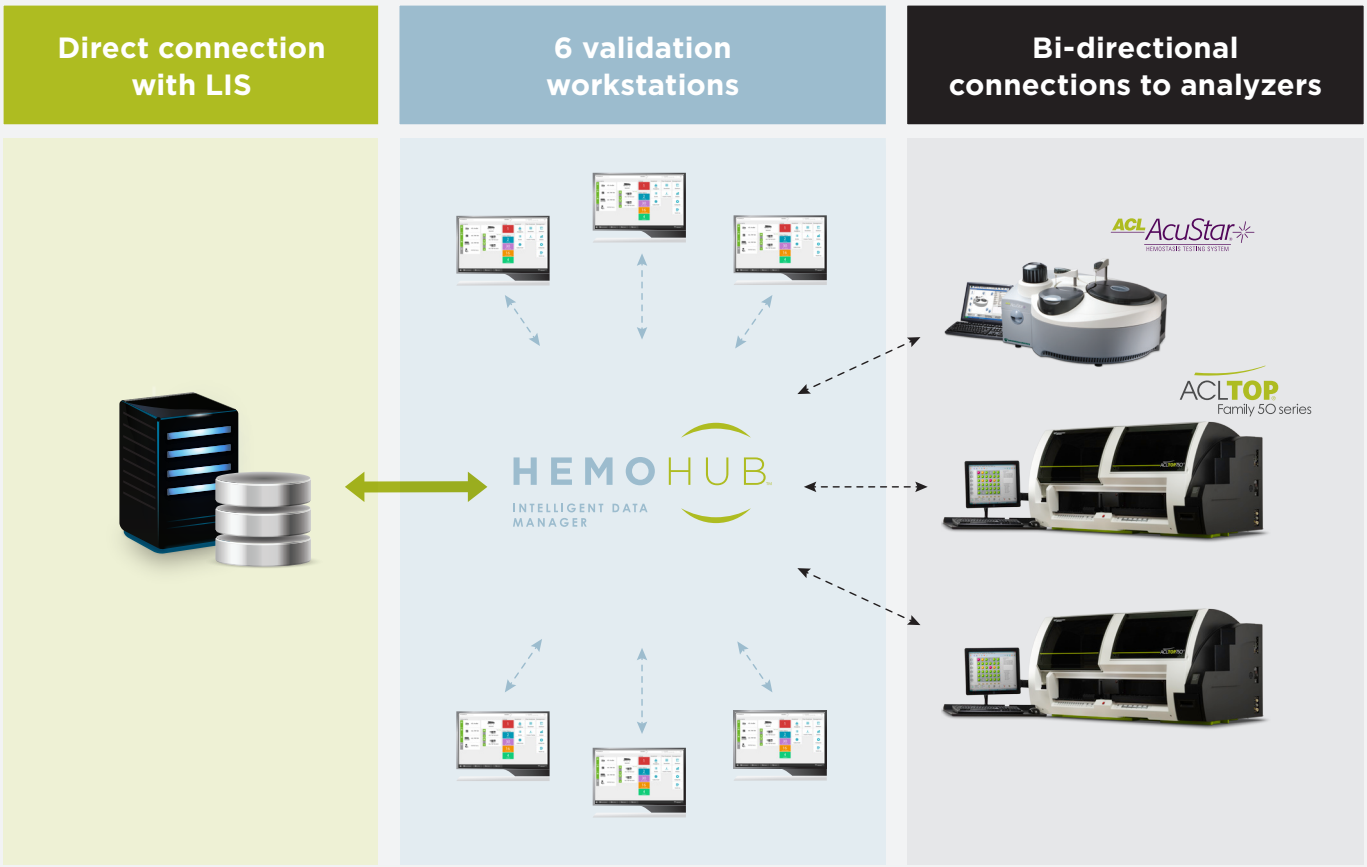
The Laboratory staff collaborated closely with the Werfen team to implement the HemoHub solution, including:

- Auto-validation based on established laboratory criteria
- Standardized and automated multi-step, multi-test investigations
- Ability to view critical results and analyzer status remotely, in real time

HemoHub allowed the Hemostasis Laboratory to centrally:

- Support laboratory decision-making, allowing staff to focus on patient results needing extra attention
- Manage analyzer quality control simply and efficiently
- Optimize operations and facilitate accreditation

The Hemostasis Laboratory deployed six technical validation HemoHub workstations, including one in the Hematology area where results could be validated in a central location—especially helpful during overnight hours, when the entire area could be staffed with only one technician.



The results: A standardized validation process for enhanced productivity

Since its implementation, HemoHub Intelligent Data Manager has been a source of significant time-savings and organizational improvement for the GHRMSA Hemostasis Laboratory. The new system transformed the lab from 100% manual validation of approximately 300 patient samples per day to 30—**a 90% reduction**.

The data management solution has also standardized the technical validation process, and its wide range of expert rules enables automation of many different types of validation functions, including pre-analytical, rerun and reflex tests.

Manual validation

300 → **30**
samples/day samples/day

90%
reduction in manual result validation with HemoHub

> **"HemoHub Intelligent Data Manager is simple, intuitive and modern—and was quickly adopted by the lab staff."**
>
> —Dr. Inès Harzallah

What makes HemoHub Intelligent Data Manager unique?

Flexibility to meet specific lab operational needs

- One centralized interface for management of multiple sites within the hospital network
- Scalable for an unlimited number of patient results and analyzer connections
- KPI-configurable dashboard
- Customizable rules for standardization of laboratory workflows

Efficiency to optimize workflow

- Centralized management of advanced pre-analytical checks on ACL TOP Family 50 Series Systems
- Automatic rerun and reflex processing
- Sample-bank inventory for patient-sample traceability
- Centralized alert flags for results and maintenance

Quality results for better patient care

- Quality control management from one central location
- Easily accessible patient result history
- Patient parameter-configured rules
- Integrated accreditation support



The results: Significant time-savings and improved staff satisfaction

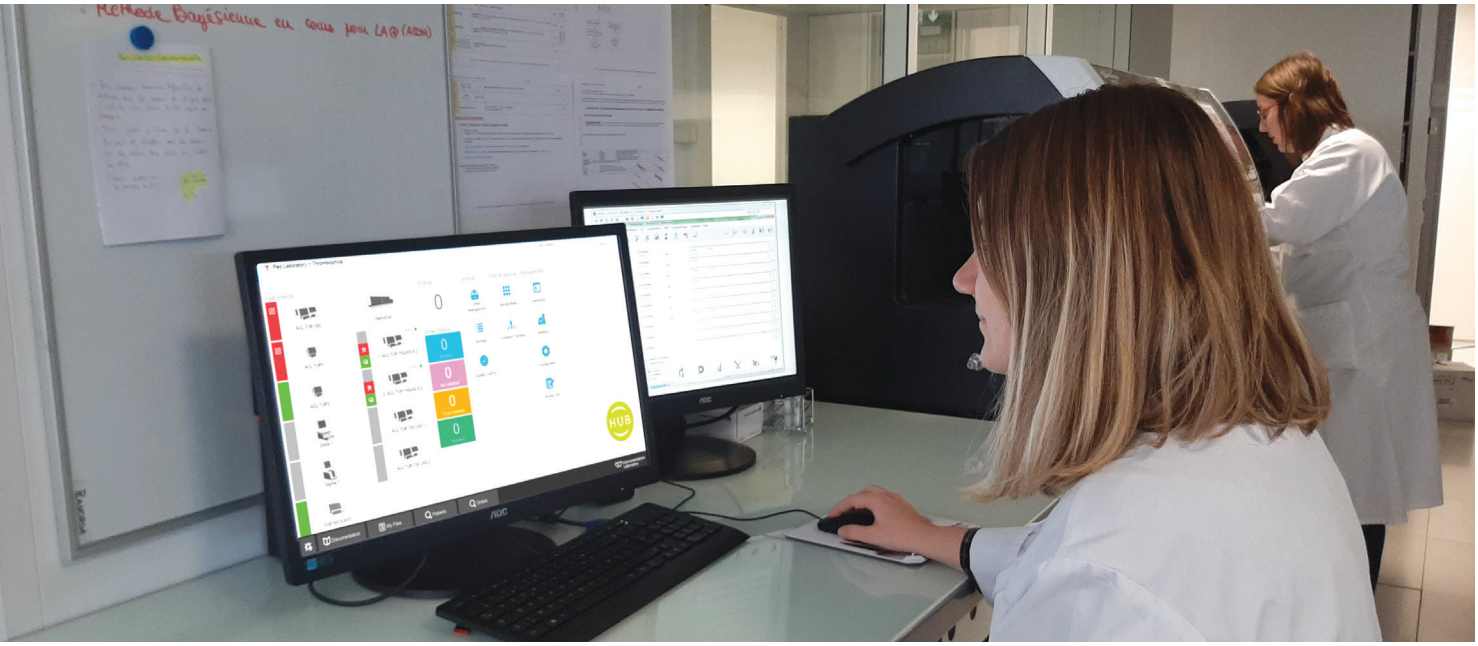
HemoHub Intelligent Data Manager simplified management of pre-analytical sample checks at the GHRMSA Hemostasis Laboratory. Data automatically collected by ACL TOP Family 50 Series Systems, including sample-volume detection, HIL measurement and abnormal aspiration detection, is sent to HemoHub, which also records sample tube delivery times.

Depending on the results collected, HemoHub can cancel further analysis, document noncompliance in the LIS, or flag a test order for review or attention. This has resulted in tremendous time savings for the lab technicians, who previously were required to manually perform these tasks.

With this new level of automation and workflow standardization, the Hemostasis Laboratory at GHRMSA has become a model site for the value of HemoHub Intelligent Data Manager throughout hospitals in France. **"The idea is to empower other sites to implement similar automated workflows, adapted to their specific needs,"** says Dr. Harzallah.

Looking ahead: Further standardization

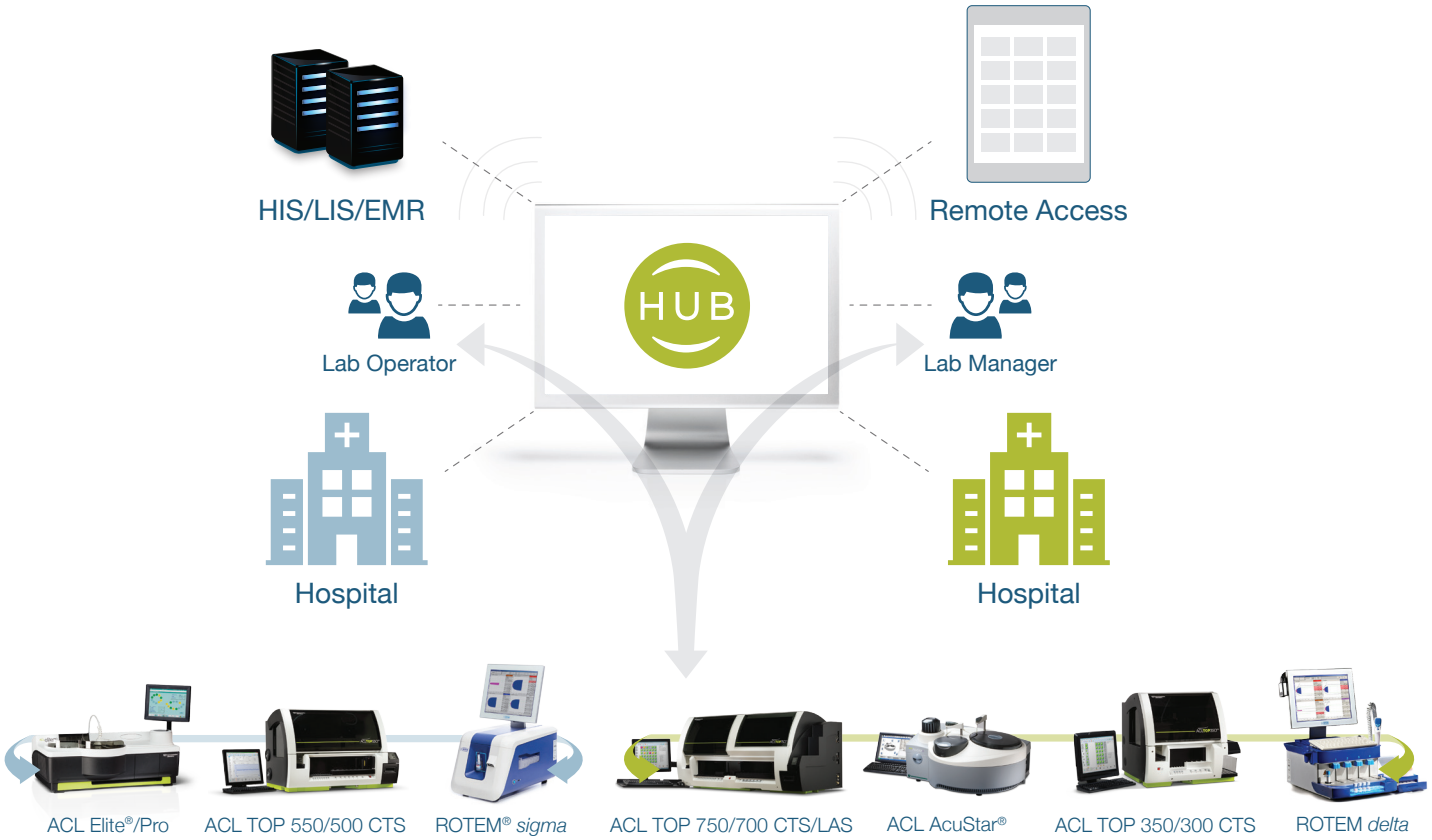
The Hemostasis Laboratory team at GHRMSA plans to continue standardizing their technical validation process by implementing expert rules to best meet current guidelines and laboratory practices.



HEMOHUB™

Enhanced performance, workflow and laboratory decision support

HemoHub Intelligent Data Manager standardizes and optimizes Hemostasis testing across systems and networks—for flexibility, efficiency and better patient care.



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