

Case study:

Enhancing efficiency and workflow optimization with HemoHub™ Intelligent Data Manager



Carpermor International Reference Laboratory

Mexico City, Mexico

This case study highlights the impact of **HemoHub Intelligent Data Manager** on the Core Laboratory of Carpermor International Reference Laboratory. Werfen workflow experts collaborated with the laboratory team to perform a comprehensive lean analysis of their Hemostasis laboratory.

Through the implementation of **HemoCell® Specialized Lab Automation**, powered by HemoHub, the lab streamlined operations, reduced manual intervention, and enhanced workflow efficiency in Hemostasis testing. HemoHub further empowered the lab to deliver faster, more reliable results, while optimizing resource allocation across the network. And by enabling the lab to improve data tracking and expand its analytical capabilities, overall performance was enhanced and processes were improved to support compliance.

Improving operational flow in the Hemostasis lab

The Core Laboratory of Carpermor is a nationally recognized CAP- and EMA-accredited* analytical center, serving multiple hospitals and local reference sites across Mexico. Supported by a quality management system with a robust capacity, the lab conducts more than 1,500 types of studies and tests across various specialties.

The challenge: streamlining Hemostasis testing workflow

The lab faced significant challenges with preanalytical and analytical workflows, particularly when managing specialty testing. The complexity and volume of information, along with the lab’s reliance on specialized, user-dependent protocols, created bottlenecks. Manual validation and specimen handling were frequently required, leading to inefficiencies and delayed results.

Key goals for Carpermor:

- 1 Optimize turnaround times (TAT) for routine, STAT, and specialty testing
- 2 Reduce non-value-added manual activities
- 3 Standardize processes and criteria rules across the network

The solution: HemoHub Intelligent Data Manager and HemoCell Specialized Lab Automation

Implementing HemoHub Intelligent Data Manager across multiple sites—including its lab with the installation of HemoCell—helped Carpermor streamline and automate critical processes across the laboratory network. Configured to streamline routine, STAT, and specialty testing, HemoHub integrated seamlessly with lab operations, enabling efficient automated processes.

“We were challenged with developing skilled personnel and scaling a centralized system. HemoHub was key to helping us standardize processes nationwide and ensuring a smooth and consistent workflow.”

— Dr. Pablo Diaz Piedra, Hemostasis and Hematology Manager, Carpermor International Reference Laboratory

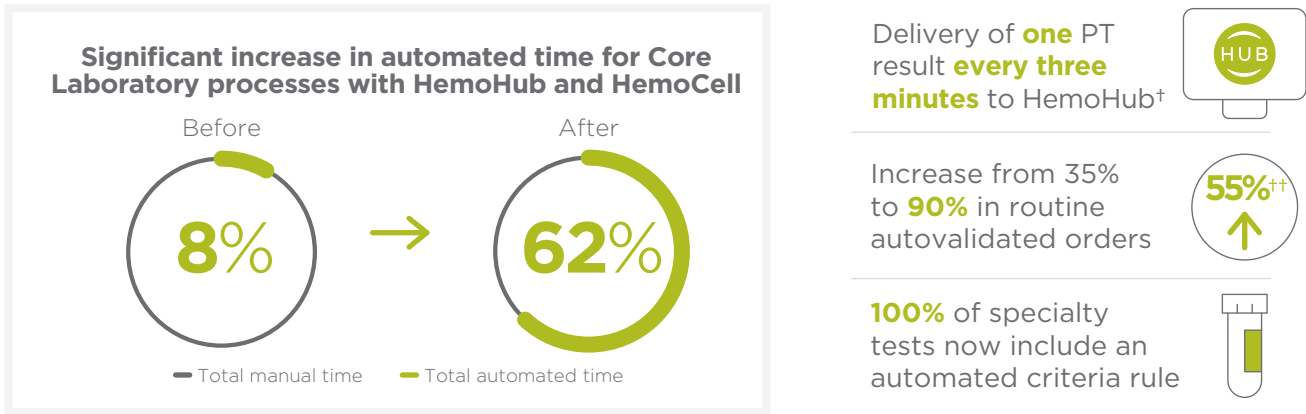
Labs in the Carpermor national network connected to HemoHub



The results

1 Reduced manual intervention for enhanced efficiency

- Streamlined critical processes across the lab system, by automating workflows, introducing predefined criteria for managing critical values, and providing laboratory decision support tools
- Eliminated the need for frequent manual validation, significantly reducing the risk of errors and delays
- Expanded the Hemostasis test menu
- Enhanced operational efficiency with HemoCell by optimizing lab processes, and with its scalable digital framework, effectively managed complex testing demands



“With the implementation of HemoCell, powered by HemoHub, we’ve significantly improved lab biosafety by eliminating manual sample uncapping, reducing the risk of biohazard events and better protecting our team.”

— Dr. Pablo Diaz Piedra

*CAP = College of American Pathologists; EMA = Entidad Mexicana de Acreditación

*Data on file; based on software run time from idle state to completion. Actual run time may vary based on instrument model. Individual results may vary based on lab capacity and user expertise.

**Increase of 55 percentage points.

The results (cont'd)

2 Advantages of a comprehensive solution

Connectivity—HemoHub standardized processes and streamlined data flow across Carpermor’s national lab network, providing consistency and enhanced efficiency.

Quality Control (QC) Management—automated QC ensured the continuity of compliance, for improved result reliability.

Lab Decision Support—the rules engine automated critical value management, reducing potential manual errors and TAT.

Optimized Workflows—with the implementation of HemoHub and autovalidation, Werfen’s solutions enabled faster result reporting and expanded test offerings for diverse diagnostic needs.



Conclusion: supporting operational excellence

By implementing HemoHub Intelligent Data Manager, including HemoCell Specialized Lab Automation, in the Core Lab, Carpermor transformed its Hemostasis operations—streamlining workflows, automating processes, and introducing standardized criteria across the network for specialty testing. The solution has helped the lab expand its diagnostic capabilities, supporting improved patient care.

“We have worked with other solutions, but none compares to the level of automation and comprehensive test menu that Werfen offers. Our staff is very satisfied and now has time to focus on more valuable responsibilities.”

— Dr. Pablo Diaz Piedra

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