


 **Magentus** **Evolution vLab**

Evolving pathology
networks at scale

A female scientist with dark hair tied back, wearing safety glasses and a white lab coat, is focused on looking through a microscope. She is wearing blue nitrile gloves. The background is a blurred laboratory setting with a computer monitor visible on the right. The lighting is soft and professional.

Evolution vLab® is one of the most flexible, multidisciplinary Laboratory Information Management Systems in the world. Its single view of pathology workflows and patient data across diagnostic services transforms clinical decision making, lab operations and quality of care at scale.

Evolution vLab® empowers laboratories

Enhance laboratory operations

Features such as reflex testing, integrated resulting, automated routing of critical results, and optimisation of laboratory workflows boost efficiency and reduce laborious manual processes.

Simplify reporting and compliance

Real-time, automated reporting reduces admin burden, increases transparency and simplifies statutory reporting whilst supporting regulatory compliance and laboratory accreditation.

Manage data and workflows efficiently

The highly scalable solution is suitable for single or multi-site environments.

Streamline core laboratory processes

Improve every step of the workflow: order entry, specimen tracking, test result entry, quality control, and results reporting with customisable worklists and worksheets.

Configuration options for every laboratory discipline

Microbiology

Automate the entire microbiology testing process, from order entry to final reporting, including customisable features like location-specific user-defined suppression rules, cascading rules, and epidemiology reporting.

Cellular pathology

Manage cellular pathology workflows. The solution is vendor-agnostic, allowing for easy integration with third-party products such as specific digital pathology workflows.

Blood Transfusion

Streamline the transfusion testing process with features like cross-matching, full electronic issue facilities, blood product inventory management, and real-time sample tracking. Increase security and integrity when performing and documenting activities and events, with multi-site capabilities and user-defined worksheets always prioritising patient safety.

Blood Sciences

Enjoy flexibility in access and resourcing by viewing blood science disciplines either as a single entity or as Biochemistry, Haematology and Immunology. The solution can also be integrated with a full range of third party IVD (in vitro diagnostics) instruments.

Genomics

Analyse and manage the large volumes of data generated by next-generation sequencing technologies, with tools for sample tracking, quality control, variant analysis, and interpretation.





“Being able to share standardised results in real time will enable effective diagnosis for patients across the whole of the NHS Scotland, paving the pathway for improved patient outcomes.”

Benefits of Evolution vLab®



Patient Experience

A cumulative patient history, accessible from any lab or care setting, enables a streamlined and accurate care journey for your patients, giving your teams more time to optimise patient care.



Secure and flexible

Robust security and disaster recovery is assured with ISO accreditations, role-based permissions and cyber resilience. Flexible hosting and architecture adapt to changing demands, supporting future growth.



Cost Savings

Real-time business intelligence dashboards enable better lab management and resource allocation. As a fully managed service, this single database solution reduces the need for middleware and IT overhead, minimising hardware, software and support costs.



Lab Efficiency

Standardise and automate workflows across multiple sites, streamlining specimen tracking and inventory management. Comprehensive reporting enables system level work rationalisation, enabling capacity planning and demand optimisation. This improves safety and quality, reduces waste, expedites turnaround time, and increases patient throughput.



Clinical Decision Making

Analytics and real-time reports enable immediate decision making on lab operations and data-driven care pathways. Specialised functionality and advanced decision support tools improve clinical decisions across geographies and key disciplines.



Configurable and interoperable

Highly configurable and bi-directional integrations with all systems including analysers, EMRs and PAS. The single database and vendor neutral platform enable national and local interoperability using HL7 and FHIR, integrating with the latest technology used across healthcare. By integrating with national and local interfaces samples can be validated once, efficiently reaching clinical teams, infectious disease units and national dataset.

MIKE GRAY

CHAIR, NHS SCOTLAND
LIMS IMPLEMENTATION
PROGRAMME

Talk to our team about
Evolution vLab® and your
enterprise LIMS requirements

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