X-Lab

Labgnostic

Reducing Turnaround Times (TaTs) by 90.4% with Lab2Lab Interoperability

Case Study

Introduction

The Mater Misericordiea University Hospital (MMUH) in Dublin, Ireland refers more than 20,000 samples per year to external laboratories. Before Labgnostic, each of these samples was managed manually through paper-based processes. These created significant overheads on staff time – from clinicians to IT professionals.
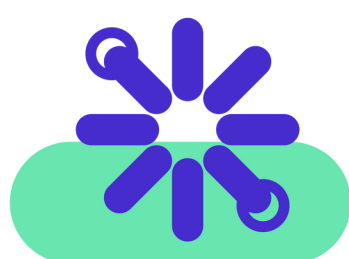
All samples referred out needed to be followed up manually, and all results were primarily returned to the Mater on paper, through the post. These paper results needed to be time-stamped, signed, and then scanned against the relevant order in the Mater PAS (Patient Administration System) - causing a significant wait for results for clinicians.

When the Mater went live with Labgnostic, TaTs were dramatically reduced by 90.4%.
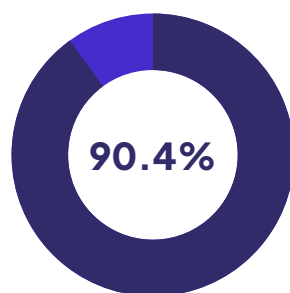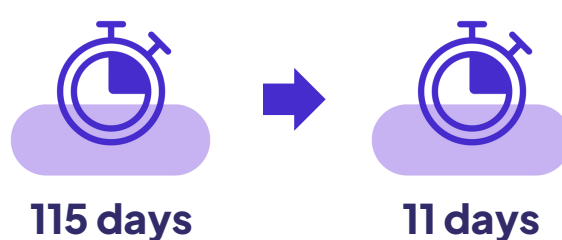
Aims

To demonstrate how:
- Lab2lab interoperability can dramatically save staff time
- Improve TaTs
- Increase data accuracy
- Streamline workflows
- Allow staff to be redeployed to more rewarding tasks
- Improve patient care by getting results to the clinicians faster.

Methods

MMUH refer 20,000 tests externally per year. Before Labgnostic the average time taken to process each test manually, per test type was recorded for 23 different tests. Post-Covid and using Labgnostic, the average time taken per test was re-recorded. Reductions per test type for all 23 tests were recorded and averages were taken.
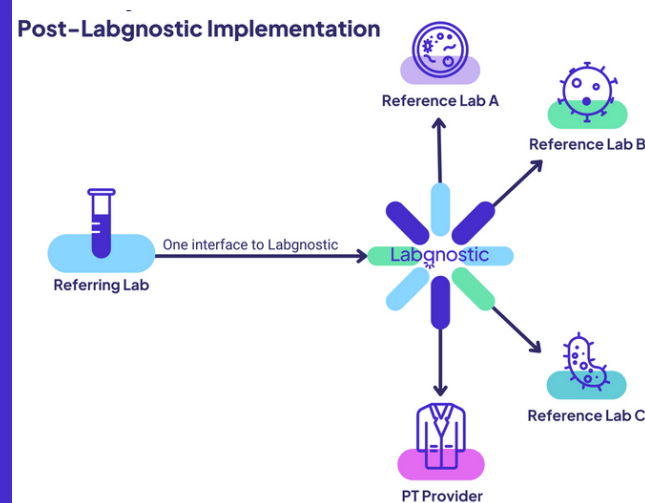
Reduced from an average of:

115 days → **11 days**

90.4%

A reduction of 104 days – or 90.4%.

Results

In less than two years the Mater has:

Connected with 14 other labs using the Labgnostic hub and spoke network.

Onboarded 51% of referral blood science sample requests onto Labgnostic.

Reduced average TaTs to 11 days – a 90.4% improvement.

Set up 83 referral tests.

Set up 20 performing tasks for automated reporting.

Labgnostic is a cloud-based platform enabling bidirectional lab-to-lab interoperability over a network of labs. Labgnostic provides a single interface to the hub and spoke network and gives unlimited connections to multiple labs or providers.

Post–Labgnostic Implementation

Reference Lab A
Reference Lab B
Referring Lab — One interface to Labgnostic — Labgnostic
Reference Lab C
PT Provider

Conclusion

Connection to the Labgnostic network streamlines workflows, automates test and results reporting, increases data accuracy and gets results to clinicians faster.

Labgnostic has revolutionised the way we do our business.

Paudy O'Gorman,
Lab Manager at the Mater

Presenters

Sarah Appleby
X-Lab Systems
Leeds, UK

Paudy O'Gorman
Mater Misericordiea University Hospital (MMUH)
Dublin, Republic of Ireland

To learn more and see the full case study and dataset, please scan this QR code.