



Hermes Pardini Transforms High-volume Allergy Workflow

Leveraging the IMMULITE Total Lab Automation configuration reduces labor and turnaround time

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Case
Study

Shortly after the Hermes Pardini team redefined their laboratory's workflow with a new portfolio of high-throughput automation, IT, and Atellica Solution analyzers for chemistry and immunoassay testing, they set their sights on a new goal: automated allergy testing.

As one of the largest reference labs in the world, Pardini processes more than 3 million allergy tests per year. However, with allergy testing operating as a segregated workflow, manual sample handling, instrument setup, and maintenance were not only affecting turnaround time (TAT) but also draining the resources of Pardini's laboratory staff. As an offline workflow with five Phadia 2500 Analyzers, the 3000 allergy tubes processed per day required extensive hands-on time. While decapping and sorting were automated as part of the larger pre-analytical workflow, the remainder of the sample processing required technician management for sample removal, re-racking, and loading onto the analyzer.

Allergy Testing Goals

-  Reduce manual labor
-  Decrease turnaround time
-  Increase testing throughput
-  Reduce footprint

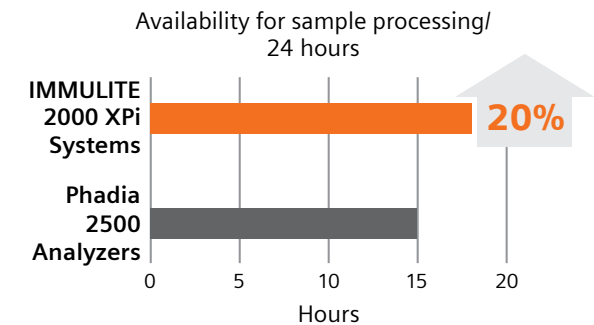
Redefining the Allergy Workflow

With an intimate understanding of the laboratory's operational infrastructure and goals, Siemens Healthineers helped Pardini redefine its allergy testing workflow. By implementing eight IMMULITE 2000 XPi Immunoassay Systems and eight VersaCell X3 Systems on the existing FlexLab™ High Throughput Automation track, Pardini was able to not only realize its goals but also achieve additional efficiencies.

Key Outcomes

Expanded operational window

IMMULITE 2000 XPi Systems have simplified daily maintenance, quality control, and assay adjustment protocols. Not only has the systems' ease of use decreased the amount of technician time required for setup and operation, but their operational window provides 20% more availability for sample processing.

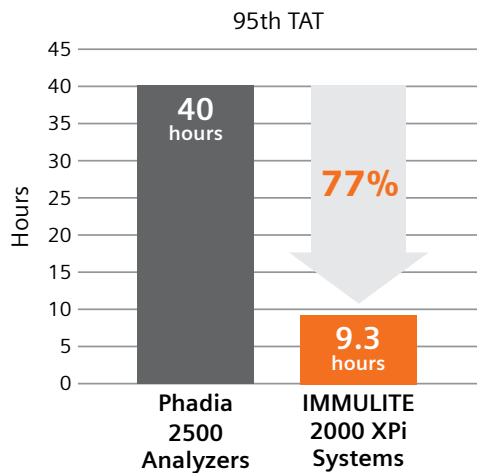


"Adding allergy testing to our total laboratory workflow was the logical next step in our transformation. After an evaluation of available options, it was clear that there was no other solution that would yield the same level of quality and flexibility as the IMMULITE 2000 XPi Systems."

Dr. Guilherme Collares
Chief Operations Officer
Hermes Pardini SA

Reduced turnaround time

Prior to automating allergy workflow, extensive hands-on time and sample management protocols resulted in an average TAT of 40 hours from the time of sample check-in to result reporting. Now, with a one-touch, automated workflow and wider operational window, the time from sample check-in to result reporting has been reduced by 77%.



Reduced hands-on time

IMMULITE 2000 XPi Systems require less hands-on time than the Phadia Analyzers for daily setup procedures, maintenance, quality control, and assay adjustment protocols. These changes have resulted in significant savings of more than 1440 hours of technician time, enabling staff to spend more time on value-added tasks.



Environmental impact

By automating allergy workflow, the number of sample tubes required to perform testing has decreased, providing significant cost-savings for Pardini's customers and decreasing waste by more than 7 tons per year.



"The 1-year implementation time to completely transition to IMMULITE Systems was seamless. The transition was executed so well that there was no disruption to testing, and results continued to be released to physicians on a timely basis."

Dr. Junia Pérez
Production Executive Manager
Hermes Pardini SA



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We are active in the areas of imaging, diagnostics, cancer care, and minimally invasive therapies, augmented by digital technologies and artificial intelligence. With our unique combination of strengths in Patient Twinning,* Precision Therapy, as well as Healthcare AI, we take on the greatest challenges in healthcare. We help improve access to healthcare for underserved communities worldwide and overcome the most threatening diseases.

We are a team of around 74,000 Healthineers in over 70 countries passionately pushing the boundaries of what is possible in healthcare so that patients can live with hope, not fear of disease.

**Early detection, accurate diagnosis, individualized therapy selection, simulation and planning, continuous monitoring and aftercare.*

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