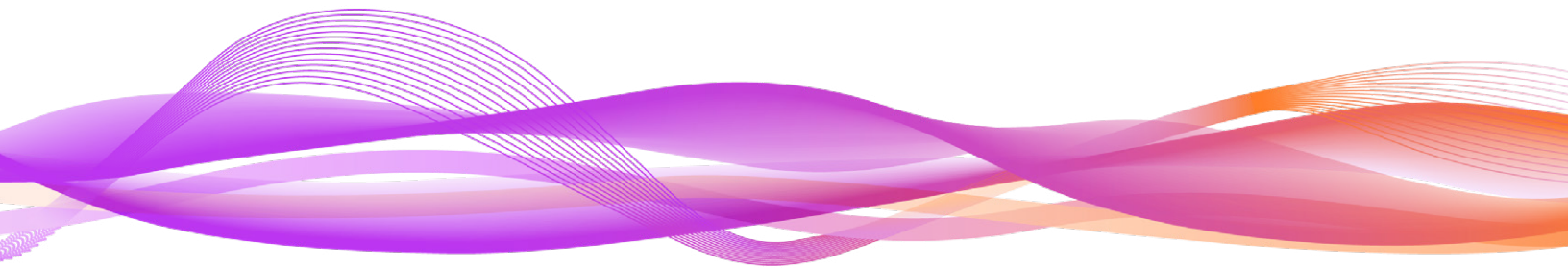




Analytics for Core Lab Case Study



LACE Laboratories optimizes operational efficiency from analytics with **navify** Analytics for Core Lab



About LACE

- LACE Laboratorios is located in Cordoba, Argentina
- Performs more than 2.5 million tests/year
- More than 90% of the results are reported in 24 hours online
- Is accredited in ISO9001:2015; is a member of ALAC (Association of High Complexity Laboratories)

Status

LACE is a state-of-the-art institution focused on scientific and technological advancement, incorporating new methodologies and state-of-the-art equipment, to meet the growing demand for diagnostics in a qualitative and quantitative way. The current operating model has a headquarters, 8 satellite sites and 6 laboratories in health centers, which must be interconnected to facilitate the monitoring of each pre-analytical, analytical and post-analytical process.

Prior to the implementation of **navify**® Analytics, the strategy for the choice of index or marker parameters for autovalidation within a department, decisions on changing analytical platforms or redeploying staff were made based on complex statistics, prior knowledge and good practice from professionals.

Solution

Based on the monitoring of the validation boards, Turnaround Time (TAT) and analytical volume per hour, a series of actions were implemented to improve the processes and obtain data to be able to evaluate decision making in a quantitative way.

“navify® Analytics enables us to measure the benefits of fact- and statistics-based decision making rather than personal subjectivities or observations.”

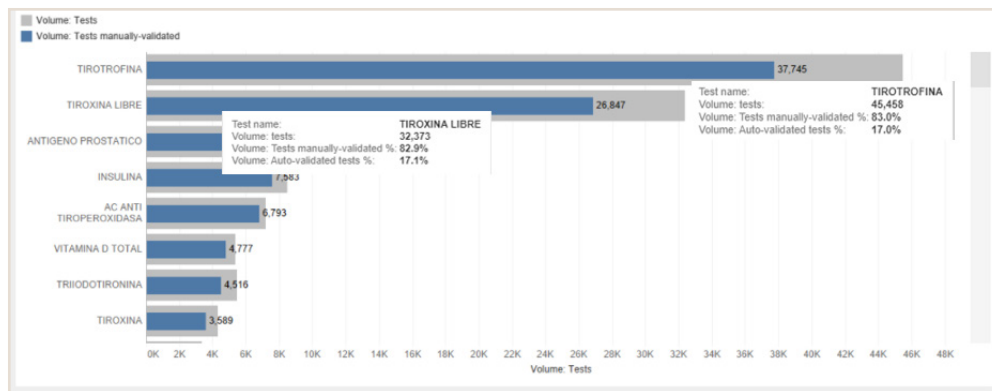
Maribel Martinez Wassaf, PhD | Head of Virology

Increased autovalidation in endocrinology

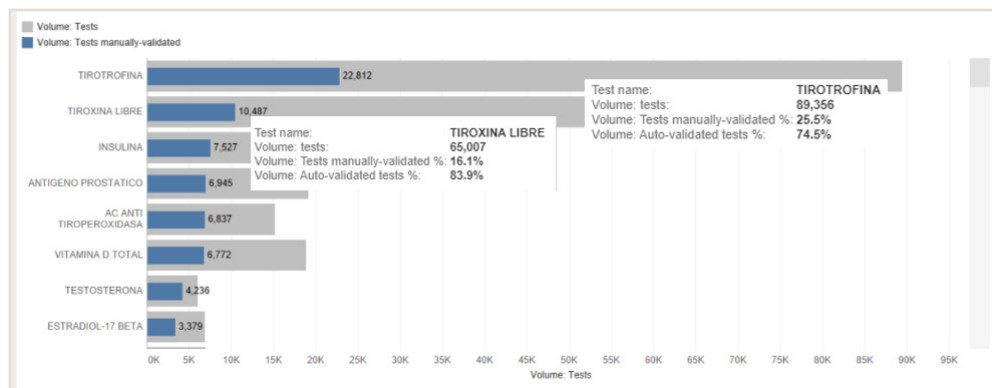
- Thanks to the quantitation provided by the data analytics it was possible to modify the parameters in the system configuration to achieve an increase in the automatically validated tests in the Department.
- In the two largest volume tests (thyroid-stimulating hormone and thyroxine) the automatically validated tests went from 17.1% to 83.9% and 17.0% to 74.5%, respectively.
- This means a reduction in the workload of staff, who can dedicate their time to complex patients, and a reduction in the delivery time of results.

Volume of manually-validated tests

Before



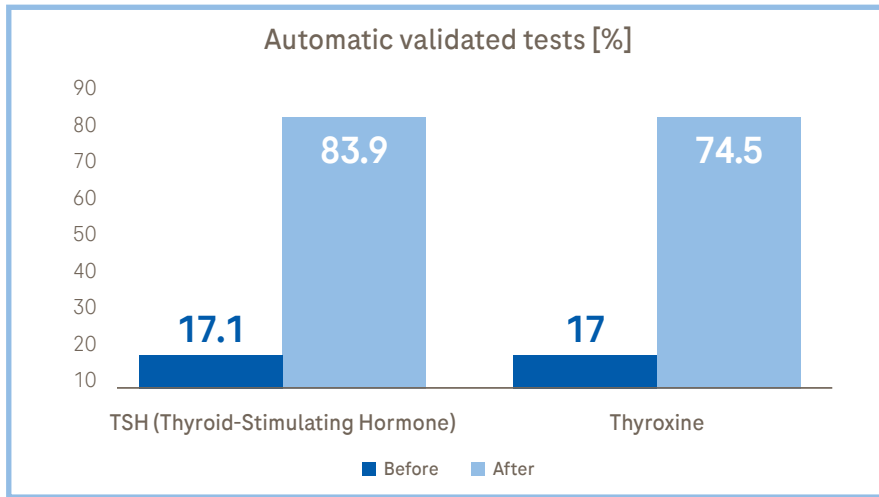
After



“Improvements in TATs result in a direct benefit to our patients and professional colleagues.”

Maribel Martinez Wassaf, PhD | Head of Virology

Increased autovalidation in endocrinology

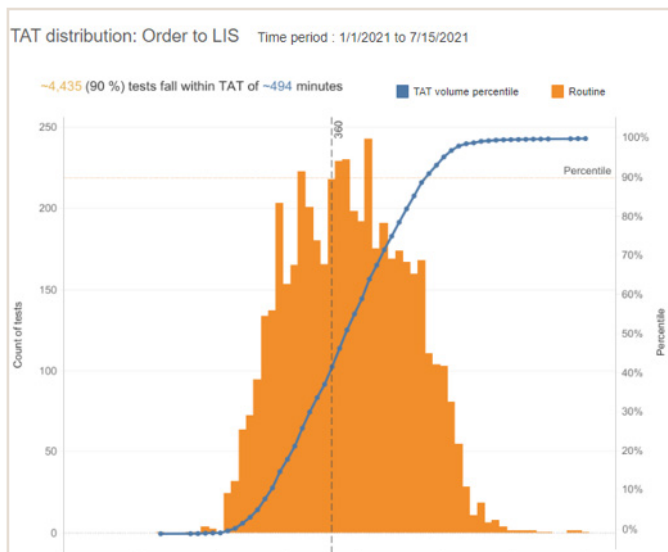


TAT Improvement upon Change in Analytical Platform

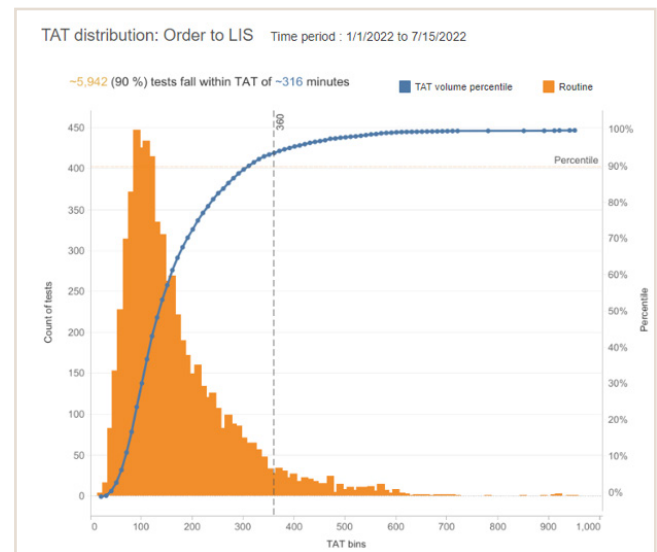
- For the Anti-HCV Ab tests, a reduction in TAT of 178 minutes was achieved, with the reduction of outliers by 55.1% (from 61.7% to 6.6%).
- For tests associated with pregnancy and preconception (Hepatitis B, HIV, Syphilis, Chagas, Toxoplasmosis, Brucellosis), a 58 minute reduction in TAT was achieved, and a 9.0% reduction in outliers (from 16.9% to 7.9%).

TAT Distribution: Order to LIS

Before

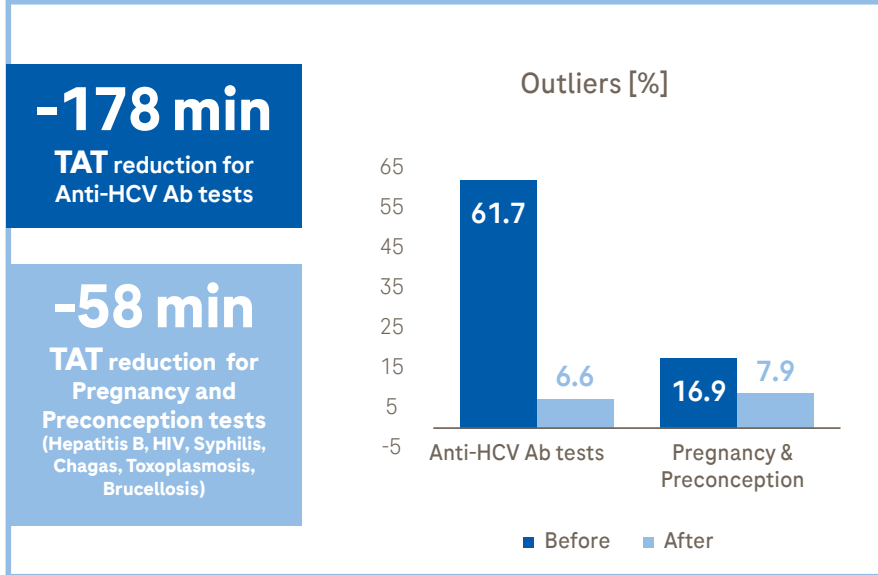


After



Disclaimer: Individual lab results may vary, and testimonials are not claimed to represent typical results. All testimonials are from real participants, and may not reflect the typical purchaser’s experience, and are not intended to represent or guarantee that anyone will achieve the same or similar results.

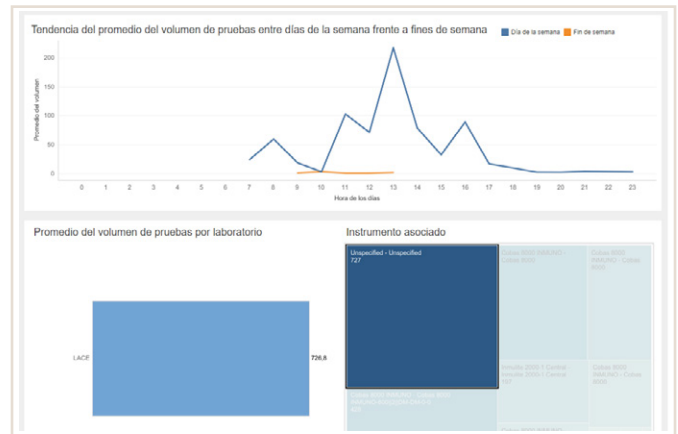
TAT Improvement upon Change in Analytical Platform



Change in hours of active personnel in the Virology Department

- Using navify® Analytics, the team identified the entry peaks of determinations of manual processing to the department to reorder the active hours of work of the staff. It was migrated from 7-15 hours to 10-18 hours with an improvement in the flow of activities and TAT samples in the afternoon, without hiring new staff and no longer paying overtime.

Average test volume in analytics



“Effective, user-friendly tools and the availability of up-to-date data support action especially on sensitive topics such as time changes or hiring new staff.”

Maribel Martinez Wassaf, PhD | Head of Virology

With the implementation of navify® Analytics for Core Lab, LACE focuses its time on decision-making, generating action plans that make processes more efficient and have a positive impact on its patients.

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