navify®

Lab Operations

Simplify your workflow.
Elevate your impact.

navify® Lab Operations is an advanced middleware solution that ensures seamless integration and operational efficiency so you can do more with less. Designed to work with the **cobas®** family of analyzers and automation systems, **navify®** delivers standardization and control to drive maximum performance in labs of all sizes.

The built-in QC Module automates Quality Control, minimizing manual tasks and putting you in full control of the process. Manual workflows contribute to higher turnaround times (TATs), rates of error and costs. The **navify®** Lab Operations QC Module simplifies your workflow to reduce work hours, TATs, and costs, so you can meet the critical need to deliver accurate results for patients more quickly.

At Huntsville Hospital in Alabama, **navify®** Lab Operations reduced manual QC steps and decisions by 62.5%, total clicks by 99%, and routine average TATs by 16.3 minutes. In addition, implementation of **navify®** Lab Operations resulted in projected cost savings of $46,537 per year.

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Quality Control is vital to the functioning of the lab and the accuracy of patient results

Despite this, many labs rely on a tedious and overly complicated QC process with many manual steps, decisions, and pain points.

Manual workflows increase TATs and costs

Time-consuming workflows result in high FTE costs attributed to QC, and longer TATs, as lab resources are consumed by the QC process – most critically, this impacts on patient results and clinical decisions.

Manual tasks are prone to error. With many manual steps, staff spend more time dealing with issues such as transcription errors. This consumes yet more resources, compounding costs for the lab, and delays for patients.

A flexible, scalable set of digital tools

navify® Lab Operations is a browser-based solution that intelligently automates the three main areas of lab operations – pre-analytics, analytics and post analytics – and extends beyond the lab to manage ordering, sample collection, validation, reporting, and more.

Do everything in one place, without paper

An advanced workflow engine controls sample processing to maximize efficiency. Automatic validation enables efficient result handling – giving you only the information you need (abnormal and critical results), so you can focus on what matters.

With Roche's patient-centric approach to innovation at the heart of **navify**® Lab Operations, every feature is designed to elevate your impact on patient care.

Automated Quality Control

The QC Module gives you full control over an automated Quality Control process.

Simplify daily review with auto-verification

Configure QC rules

Easily identify QC issues & related patient results

Compare results across analyzers, sites, & time

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Huntsville Hospital

Huntsville Hospital is the main site of a 14-hospital system performing more than 13.4 million tests annually, including chemistry, hematology, coagulation and urinalysis.
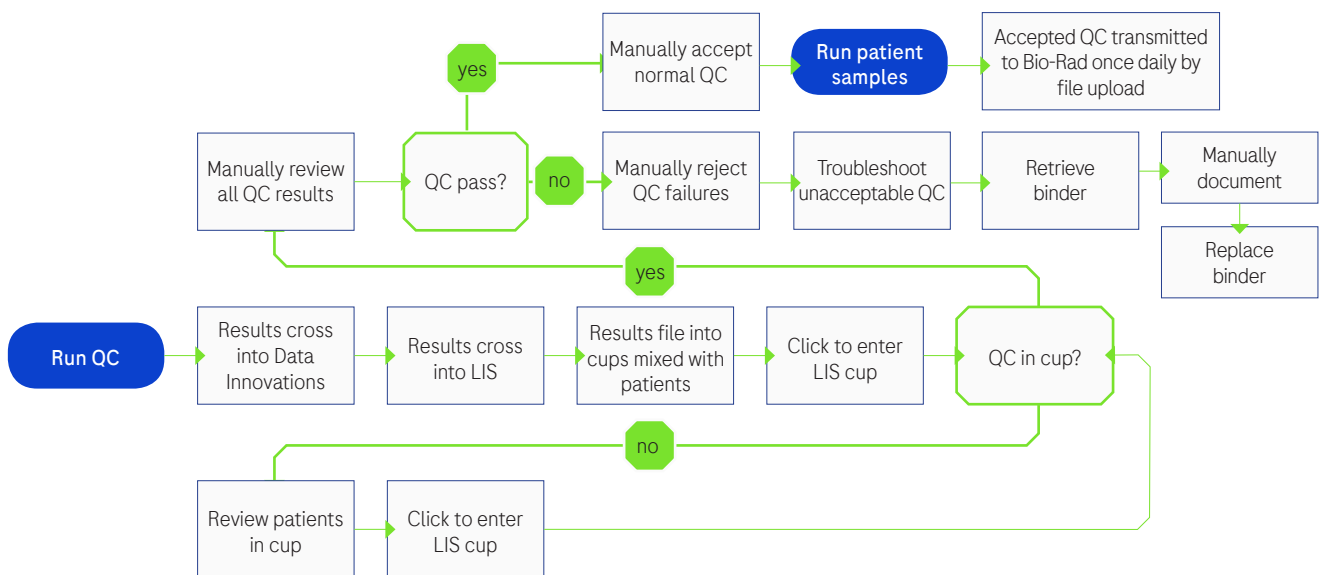
Quality Control challenges

Prior to implementing **navify**® Lab Operations, the lab at Huntsville had no autoverification for normal QC, which instead relied on manual sorting through cups by one scientist, who was simultaneously responsible for processing patient results. This QC process involved 14 manual steps, 2 decisions, and >1,000 clicks. Consequently, the daily QC review took 2.6 hours.

Huntsville Hospital, Alabama

Prior to **navify**® Lab Operations: **14** Manual Steps, **2** Manual Decision Steps, **>1000** clicks

Challenges caused by the manual QC process

Instruments

Instruments were unavailable until all QC results came back. There was no efficient way of masking certain assays for automation while troubleshooting.

TATs

TATs were negatively impacted, as QC filing into the LIS was mixed with processing patient results, which were therefore delayed.
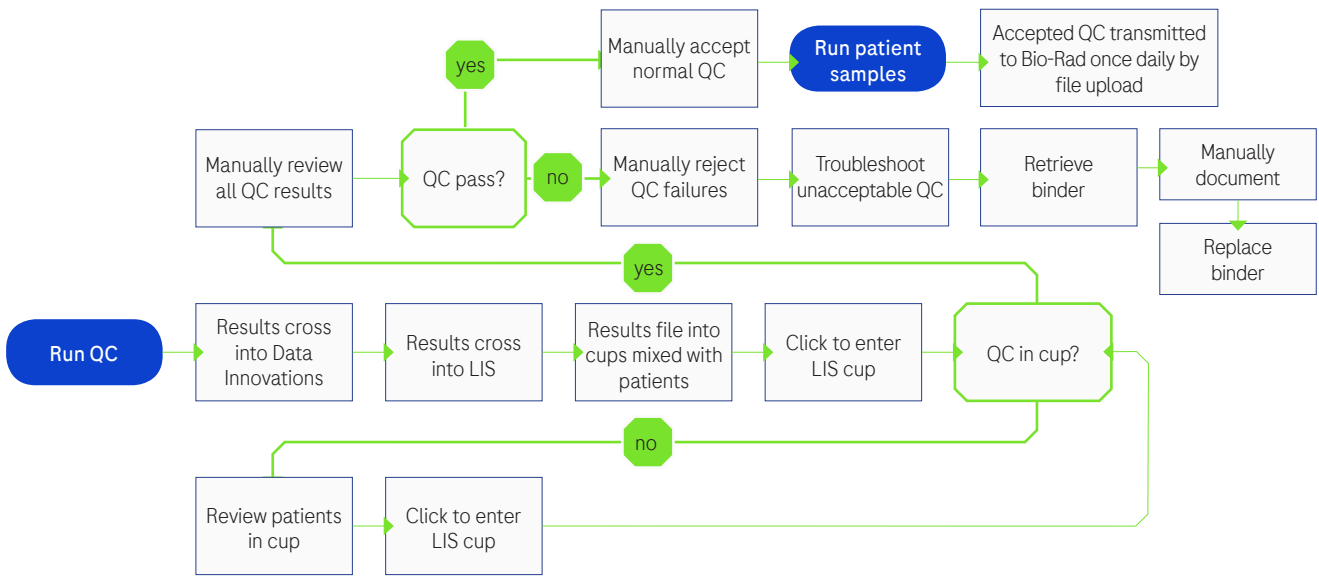
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Implementation of navify® Lab Operations

Huntsville Hospital needed a solution to simplify and transform their lab operations, in particular the QC process. Following a thorough assessment of solutions available across the industry, they decided to implement **navify**® Lab Operations.
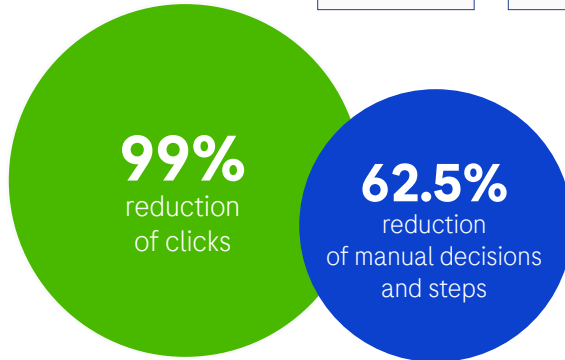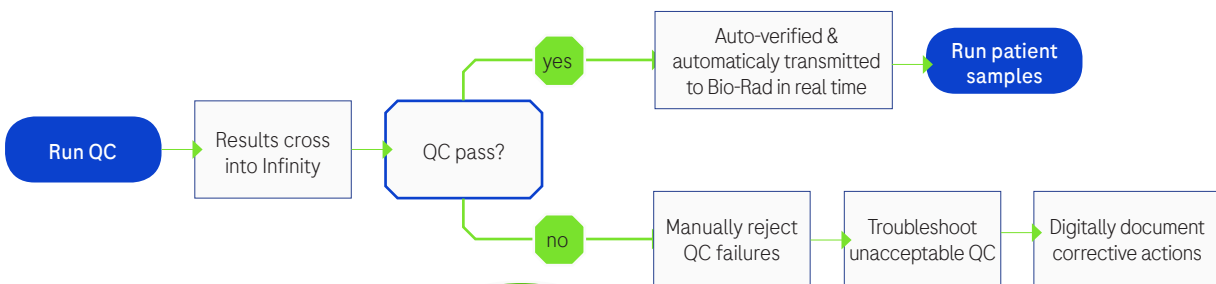
navify® Lab Operations offered the most advanced end-to-end capabilities for sample management and automation, with a high degree of interoperability and data aggregation, allowing information to flow seamlessly throughout their system.

Roche

Quality Control transformed

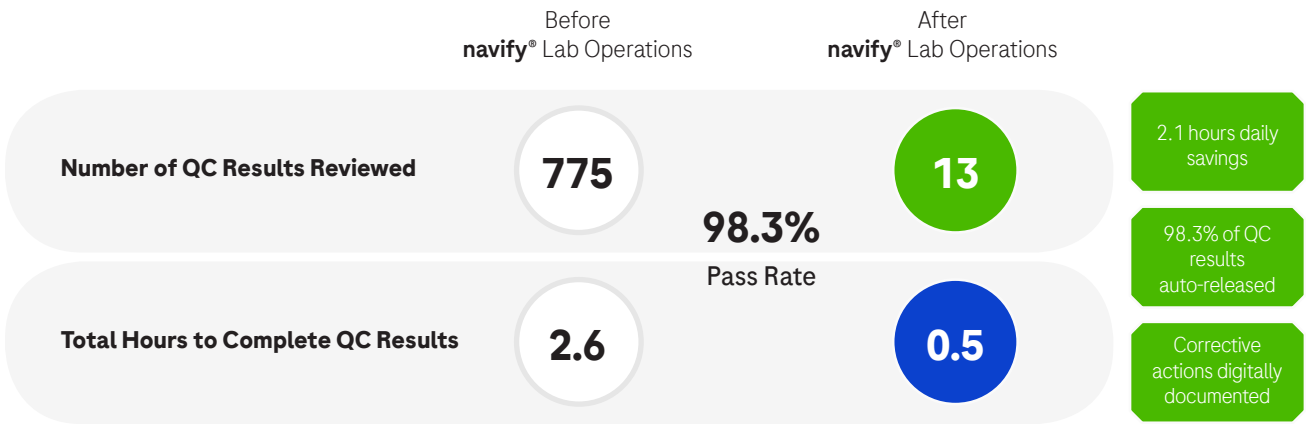Prior to **navify**® Lab Operations: **14** Manual Steps, **2** Manual Decision Steps, **>1000** clicks

After **navify**® Lab Operations: **5** Process Steps, **1** Automated Decision Steps, **<10** clicks
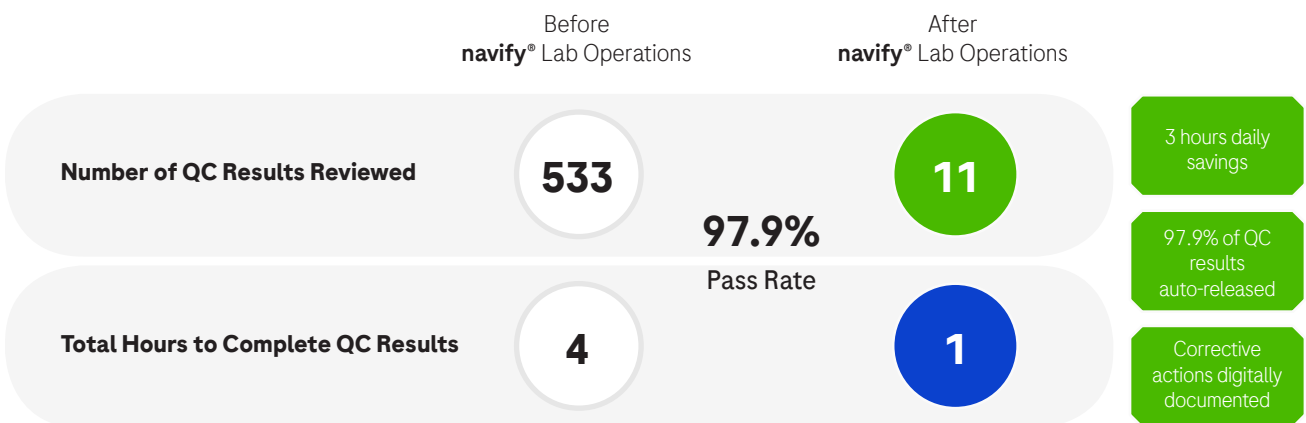

99% reduction of clicks

62.5% reduction of manual decisions and steps

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Daily review transformed with autoverification

Before vs. after navify® Lab Operations: first shift

	Before navify® Lab Operations	After navify® Lab Operations	
Number of QC Results Reviewed	775	13	2.1 hours daily savings
	98.3% Pass Rate		98.3% of QC results auto-released
Total Hours to Complete QC Results	2.6	0.5	Corrective actions digitally documented

Before vs. after navify® Lab Operations: third shift

	Before navify® Lab Operations	After navify® Lab Operations	
Number of QC Results Reviewed	533	11	3 hours daily savings
	97.9% Pass Rate		97.9% of QC results auto-released
Total Hours to Complete QC Results	4	1	Corrective actions digitally documented

"Autoverification of QC has positively impacted the morale of our technical personnel and their ability to review QC outliers ONLY versus each individual result. This has significantly improved the daily workflow for instrument maintenance and QC management."
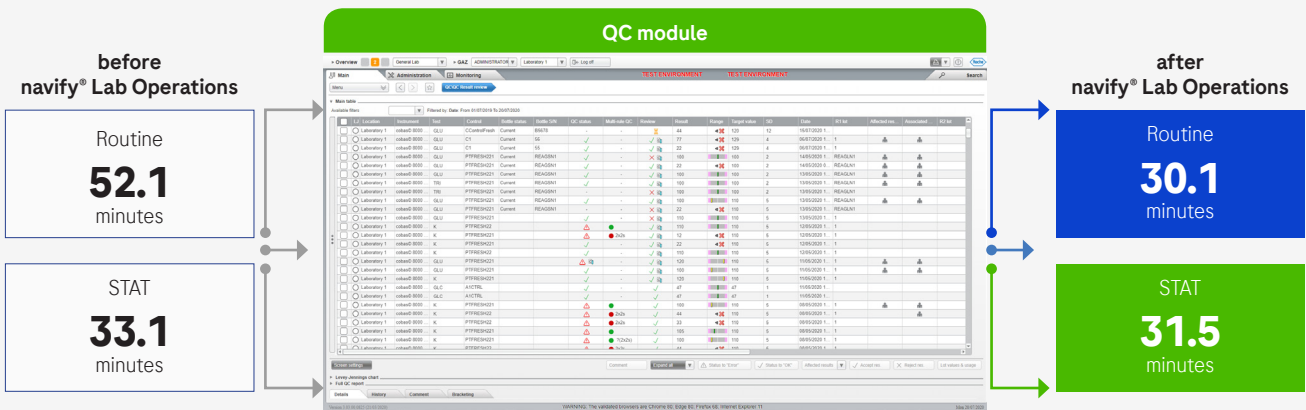
Kristin L. Fox
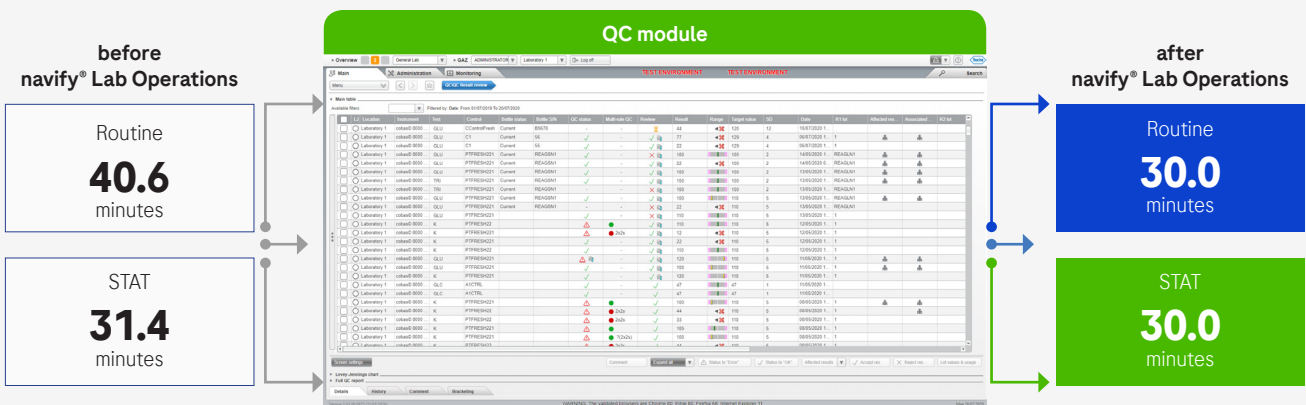Lead Chemistry Technologist, Huntsville Hospital

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Projected annual savings

	1st Shift	3rd Shift	Totals
Hours Saved Per Day	2.1	3	5.1
Approximate Technologist Salary	$25/Hour	$25/Hour	$25/Hour
Total Savings Per Day	$52.50	$75.00	$127.50

Total of
$46,537 saved per year
after utilizing the integrated QC Module

TAT improvements

TAT improvement: first shift
↓ Routine TAT by 22 mins | ↓ STAT TAT by 1.6 mins

before navify® Lab Operations

Routine
52.1
minutes

STAT
33.1
minutes

QC module

after navify® Lab Operations

Routine
30.1
minutes

STAT
31.5
minutes

TAT improvement: third shift
↓ Routine TAT by 10.6 mins | ↓ STAT TAT by 1.4 mins

before navify® Lab Operations

Routine
40.6
minutes

STAT
31.4
minutes

QC module

after navify® Lab Operations

Routine
30.0
minutes

STAT
30.0
minutes

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Impact summary

Manual steps & decision points

↓ **QC steps by 62.5%**
↓ **clicks by 99%**

TAT reductions

↓ **Routine TAT by an average of 16.3 mins**
↓ **STAT TAT by an average of 1.5 mins**

Projected annual savings

$46,537

Overall improvements

Autoverification of QC
↑ **visibility of QC stats**
Streamlined patient & QC activities
Reallocation of time spent on QC

"Implementation of QC review has significantly decreased our overall turnaround time for patient testing. This impact in TAT has effectively improved response to treatment for our patient population."

Carolyn Maples
Automated Laboratory Manager, Huntsville Hospital

Do more with less

With **navify**® Lab Operations and the QC module, you can easily automate your QC process to minimize complex, error-prone workflows, generate cost savings, and reduce TATs in your lab.

Reduce complexity and gain control

You are in control of each and every step of your lab's automated QC workflow. Set custom rules, error levels and warnings, and access every data point when you need it.

CONFIGURE
Various rules for different tests or devices for specific controls/instruments

CUSTOMIZE
Set warning and error levels for rule violations

EXAMINE
See the full details for every data point

COMPARE
See QC performance across analyzers and laboratories

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Elevate the value of you decisions

Seamlessly integrate QC into your auto-verification system and workflow engine. Thanks to **navify**®
Lab Operations, you can trust your results and elevate your impact on patients.

Reduce complexity & gain control | Do more with less | Elevate the value of your decisions

Impact outcomes