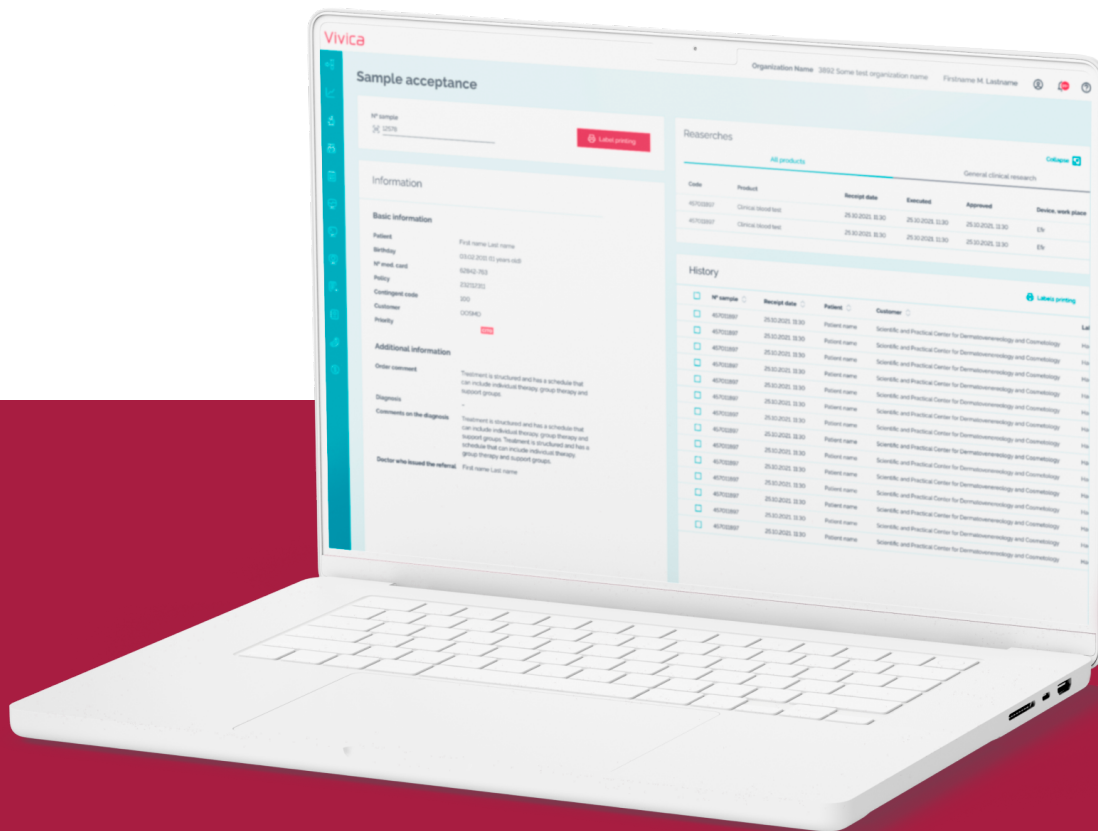


# Vivica<sup>TM</sup> Laboratory



## Software Platform for Clinical Laboratories



Vivica<sup>TM</sup>  
*Laboratory*

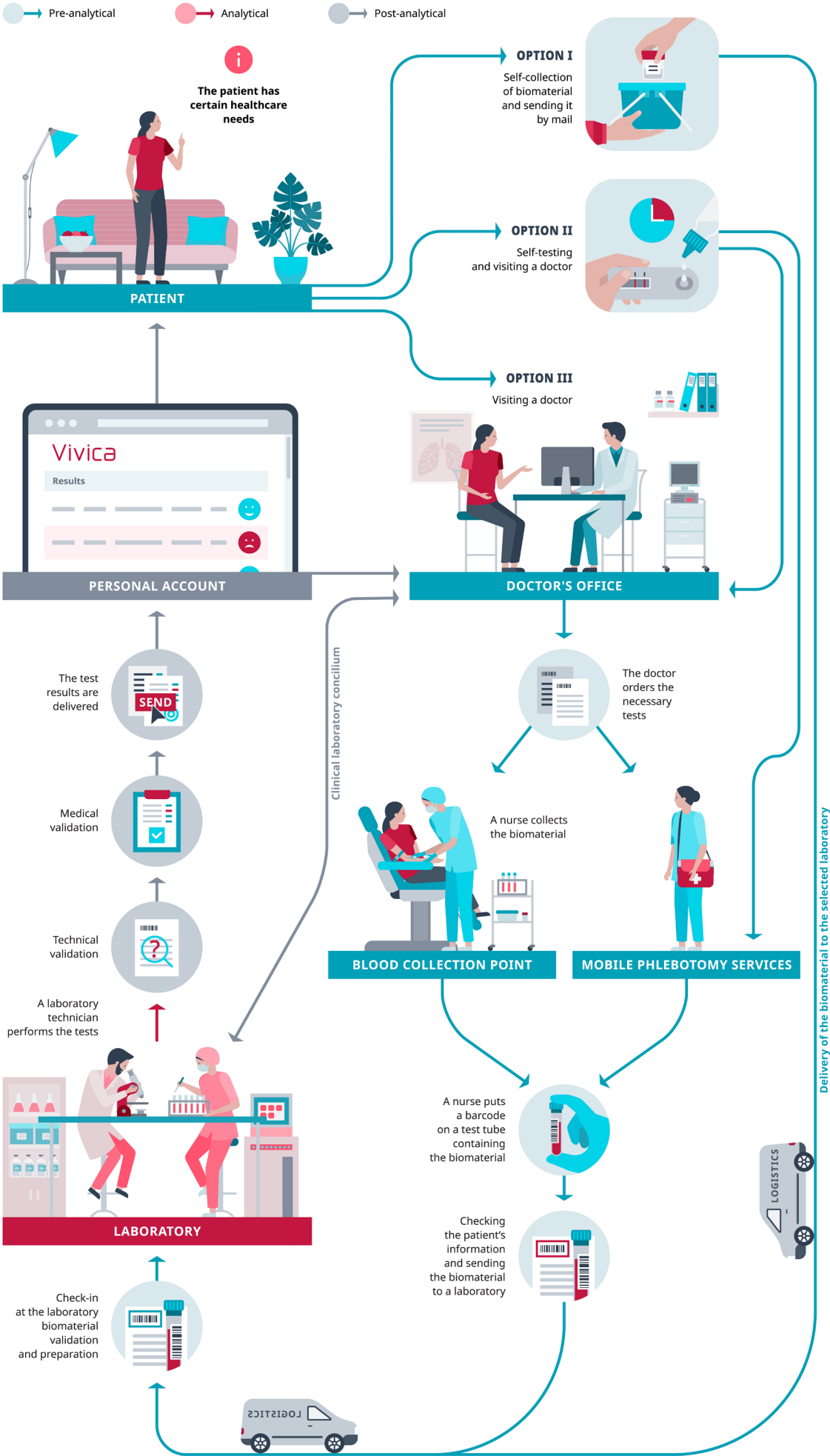
# Introducing Vivica<sup>TM</sup>

Vivica is a robust Laboratory Information Management System (LIMS) designed by and for laboratory professionals. This state-of-the-art cloud-based tool automates and streamlines operations to better serve patients' needs. The Vivica platform enhances and expedites the laboratory's ability to process larger volumes of orders, delivering more reliable results to lab professionals, clinicians, and patients.

Our cloud-based ecosystem saves space and money. Plus, payment for the use of the system is not required until the moment you begin issuing patient results.

---

Platform Map



**+** POSSIBILITY OF ADD-ON TESTING SUBJECT TO SUFFICIENT BIOMATERIAL VOLUME AND BEFORE THE EXPIRATION DATE OF THE BIOMATERIAL

# Vivica's Primary Features

Vivica LIMS was developed by industry professionals who are familiar with the persistent gaps in conducting laboratory tests. It performs the functions of both a Laboratory Information System (LIS) and a Laboratory Information Management System (LIMS). Its cloud-based memory facilitates easy access for both lab technicians and patients, while its high-performance platform automates laboratory functions, reducing the time spent manually processing data. Vivica also boasts a seamless User Program Interface (UPI), which significantly reduces the potential for human error.

## Handles medical and managerial priorities.

Its extensive range of functions allows you to run a state-of-the-art diagnostic laboratory, improving effectiveness while simultaneously automating interactions at all stages of the brain-to-brain loop in laboratory processes. This allows for the

timely and thorough fulfillment of analysis for each patient.

## Reliability and performance.

Vivica is a reliable and high-performance platform suitable for laboratories of any size. Whether you conduct 100 or 1,000,000 tests per day, Vivica LIMS significantly improves workflow efficiency while remaining cost-effective.

## Economic efficiency.

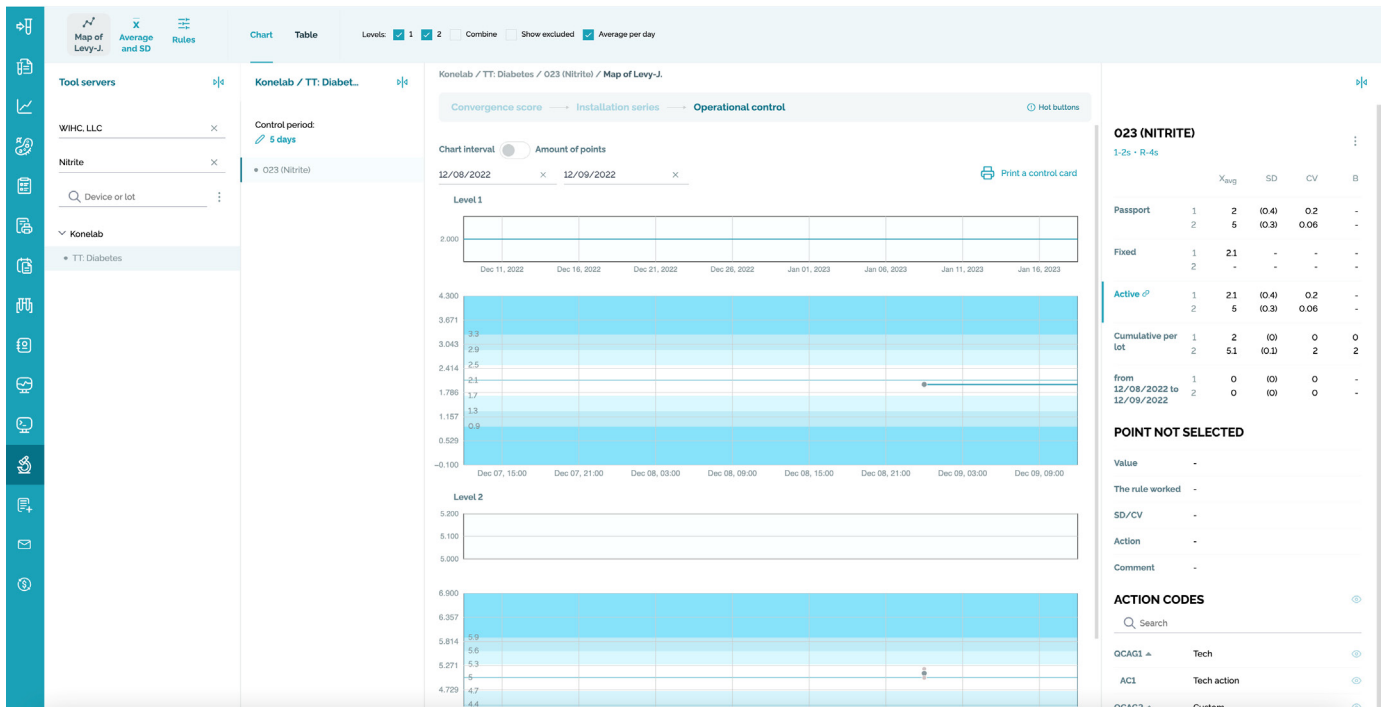
The platform's automation of all processes saves you time and money. Furthermore, the cloud-based system eliminates additional infrastructure and support costs from server installation, allowing you to do more with less.

## Flexibility.

We understand that adaptability is crucial to staying competitive in this rapidly evolving industry. Vivica seamlessly integrates with EMR and other systems, and includes an extensive number

# Quality Control Form

Vivica



of analytical instrumentation drivers, as well as their timely replenishment. Additionally, a wide range of built-in tools allows for complete customization of rules and report options, enabling you to tailor Vivica to fit your specific needs.

## Convenience.

Our clean and adaptable User Interface (UI) guarantees ease of use and fewer errors, resulting in increased productivity of lab personnel and, most importantly, higher user satisfaction.

## Cost predictability due to transparent pricing.

Our transparent pricing system provides a single payment for the use of LIMS, computer infrastructure, message sending, updated versions of primary modules, and more. This straightforward and all-inclusive flat-fee pricing plan enables you to predict and control operating costs, sparing you additional expenditures on infrastructure and technical support.



# makes all the difference

Vivica is a cutting-edge and highly scalable laboratory management platform that includes an interconnected set of products, such as a patient portal and an expanded portal for professional users.

The Vivica platform covers all aspects of laboratory operations, from the physician ordering tests to the laboratory selecting testing methods and the clinician interpreting the results. For additional processes, such as supply management, Vivica seamlessly integrates with third-party products of your choosing or our recommendations.

## Challenges for state-of-the-art laboratories.

While modern LIMS have improved laboratory management, a number of challenges still persist, including:

**Managing user and client communications.** Existing LIMS primarily focus on managing internal laboratory processes, leaving external communications outside the realm of LIMS management. Addressing these challenges often requires costly solutions to eliminate human error, such as when:

- Specimens are lost or mislabeled or other pre-analytical errors occur
- Mistakes are made in test requests
- Critical values require immediate medical attention and physician notification
- Individualized cut-off levels are necessary

Such situations often demand that laboratory personnel resort to manual solutions, rather than relying on their LIMS.



**Responding to new demands.** The COVID-19 pandemic placed unprecedented pressures on laboratories, resulting in unexpected test volumes and queries that stressed laboratories beyond their capacity. This necessitated new programming, reporting functions, and external interactions. As a result, many laboratories incurred significant adjustment costs and long waiting times for new functionalities to become operational.

**Sample tracking.** Effective laboratory operations depend on meticulous care to ensure scrupulous sample tracking, TAT

monitoring, equipment upkeep, flawless worklists, and automatic validation options. However, if LIMS designers lack direct experience in medical laboratories, it is difficult for them to tailor LIMS functioning to laboratory management logic.

**Standards compliance.** Strict adherence to professional standards such as CLSI, CAP, and HIPAA requirements helps to produce high-quality services. If a LIMS design bypasses these standards, adding them later will entail labor-intensive (and cost-intensive) reconfiguration of the LIMS.

## Template Constructor Form

[illegible]

**User-friendly interface.** A carefully designed user interface is essential to efficient laboratory operations, as it keeps errors to a minimum while increasing employee satisfaction. However, many interfaces are visually overloaded and invite frustration and user error. A high-quality LIMS provides a streamlined and user-friendly interface containing everything the user needs, while also being clear and intuitive, facilitating efficient completion of tasks in a minimum number of clicks.

**Maintaining reasonable costs.** To be competitive and profitable, the LIMS must be affordable, but laboratories often face significant overhead investment in the LIMS before it is operational. Additionally, laboratories must analyze comparative pricing and cost-forecasting, choosing from dozens of itemized elements, each of which affects the product's cost. There are significant price differences depending on the type of tests, and excessive costs are incurred for technical support and successive updates.

## Results Control Form

**Vivica** John Smith

### Results control

N° sample, Full name, b.d., med., Date and time, Status, priority, signs, Customer, Laboratory, Product group, section, Test and product, Devices

shee Does not matter Does not matter Does not matter Does not matter Does not matter Does not matter Does not matter Reset

Refresh Confirm Refute Add Print Export to XLS Mass insertion Audit

N° sample	Type	Prior.	Patient	Birthdate and age	N° referral	Product, test	Result	Reaso.	Com.	Date L.	Status	Refer.	Unit	Executed
10613	Active		Sheehan K.	02/06/2000 (23 years)	10612	Complete Blood Count (CBC)								
10463	Active		Sheehan K.	02/06/2000 (23 years)	10462	WBC	1.00				OK	3.9 - 11.1	10 <sup>3</sup> /μL	03/09/2023, 1
10461	Active		Sheehan K.	02/06/2000 (23 years)	10460	RBC	0				OK	4.2 - 5.7	10 <sup>6</sup> /μL	03/09/2023, 1
10409	Active		Sheehan K.	02/06/2000 (23 years)	10408	HGB	0				OK	13.2 - 16.9	g/dL	03/09/2023, 1
10453	Active		Sheehan K.	02/06/2000 (23 years)	10451	HCT	0				OK	38.5 - 49	%	03/09/2023, 1
10452	Active		Sheehan K.	02/06/2000 (23 years)	10451	MCV	0				OK	80 - 97	Pg	03/09/2023, 1
10450	Active		Sheehan K.	02/06/2000 (23 years)	10448	MCH	0				OK	27.5 - 33.5	fL	03/09/2023, 1
10449	Active		Sheehan K.	02/06/2000 (23 years)	10448	MCHC	0				OK	32 - 36	g/dL	03/09/2023, 1
10401	Active		Sheehan K.	02/06/2000 (23 years)	10399	RDW	8				OK	11 - 15	%	03/09/2023, 1
10402	Active		Sheehan K.	02/06/2000 (23 years)	10399	PLT	0				OK	140 - 390	10 <sup>3</sup> /μL	03/09/2023, 1

Found 39 samples. Selected 1 test of 15. Sample N°10646 (Sheehan K.)

Sample N° 10646 Order N° 10645

Basic data: Full name: Sheehan K., B.d.: 02/06/2000 (23 years), Diagnosis: A20

Auxiliary: History: Mar 7 (4), Mar 7 (50), Mar 9 (2)

Reset log: Date and time: 03/09/2023 14:03:25, Result: 0, Done: ✓, Approved: Smith J, Rejected:

Result comments: Result comment, Hidden note





# The Vivica<sup>™</sup> LIMS: your solution for laboratory management

## Compliance with professional and regulatory mandates

Our developers strictly follow CLSI and CAP standards in building the Vivica LIMS, ensuring that we meet your LIMS requirements while complying with over 30 standards relevant to laboratory automation and quality control.

The Vivica LIMS provides remote access to the program while maintaining compliance with all data protection standards. It also ensures timely delivery of test results to patients, accompanied by explanations that help them understand their importance, in line with the International Standard for Medical Laboratories – Requirements for Quality Control and Competence (ISO 15189:2022).

We prioritize adherence to HIPAA requirements, and our multiple security levels provide reliable protection of patient data from leaks and data corruption. Trust Vivica LIMS to help you stay compliant and provide the best care for your patients.

Our cloud-based platform is located in the centralized infrastructure AZURE by Microsoft and Amazon Web Services, ensuring 99.9% online availability. Our platform architecture updates universally across all laboratory sites, eliminating the need for burdensome individual updates. As a result, new features become available to all our partners as soon as we release them, minimizing adjustments from one version to another.

Vivica
John Smith

+ New worksheet
 Print sheet
 Activate
 Fill
 Complete

Search everywhere

### WORKSHEETS

IFA  
Samples: 0 of 48  
  
New (Inactive)  
Feb 12, 16:36

IFA  
Samples: 0 of 48  
  
New (Inactive)  
Jan 19, 14:52

Hide archived

Type ▾ Samples Executed ▴

No data

### WORKSHEET N°1 (INACTIVE)

Template: IFA  
Tests: Covid-19 RNA  
Device: ASYSEXPERT

Enter barcode manually

	A	B	C	D	E	F
1	Quality control Scan sample	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample
2	Quality control Scan sample	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample
3	Calibrator 20	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample
4	Calibrator 40	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample
5	Calibrator 70	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample
6	Quality control Scan sample	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample
7	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample
8	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample	Scan sample

Save

Vivica offers extensive API+ integration capabilities and its own patient and doctor portals, enabling customization needs for integration between any programming product requiring the exchange of data with LIMS. Our flexible rule management features and laboratory report form editor, coupled with multiple complementary functions, make the platform easily tailorable to your needs without the help of additional support services. You need not incur costs of maintenance and service, nor do you have to alter the platform's functionality or build new modules.

We currently supply drivers for use with over 300 different devices from multiple manufacturers, with new drivers continuously developed. At your request, necessary instrument drivers can be delivered within days, ensuring that your laboratory is up and running without any delay.

## **Increased efficiency and reduced workload for laboratory personnel through an intuitive user interface**

Our visually clear design addresses user experience and interface concerns (UX/UI). We organize information in a way that prevents errors that can occur when users' screens are cluttered with extraneous options.

Vivica caters to the needs of laboratory personnel, regardless of their role, be it a director, doctor, technician, or administrator. Our interface is designed to streamline task completion in a minimum number of clicks, rather than burdening users. We also offer role-based customization of data and functions, ensuring that users encounter only those elements necessary for them to accomplish their tasks.

In addition, Vivica provides detailed logs that enable monitoring of all actions to inform future updates and training needs. This feature is particularly useful for identifying areas where users might need further training,

improving the overall efficiency of your laboratory.

### Pricing transparency

Our unique payment principle for reported tests is a unique feature that ensures transparency and predictability in pricing, providing significant benefits to our laboratory partners. We offer a single price for all tests, whether they are standard or complex, unlike many of our competitors who charge significantly more for certain types of tests. This eliminates the uncertainty of varying costs for different tests and allows laboratories to accurately predict their expenses.

**The fee for Vivica LIMS includes:** basic functionalities such as server capacity, software, technical support, and more. It also comes with doctor and patient portals, access to new versions, SMS notices for your clients, integration with EMR, and many other features.

**No obligatory deployment fees.** If you decide to deploy the program yourself, we will provide

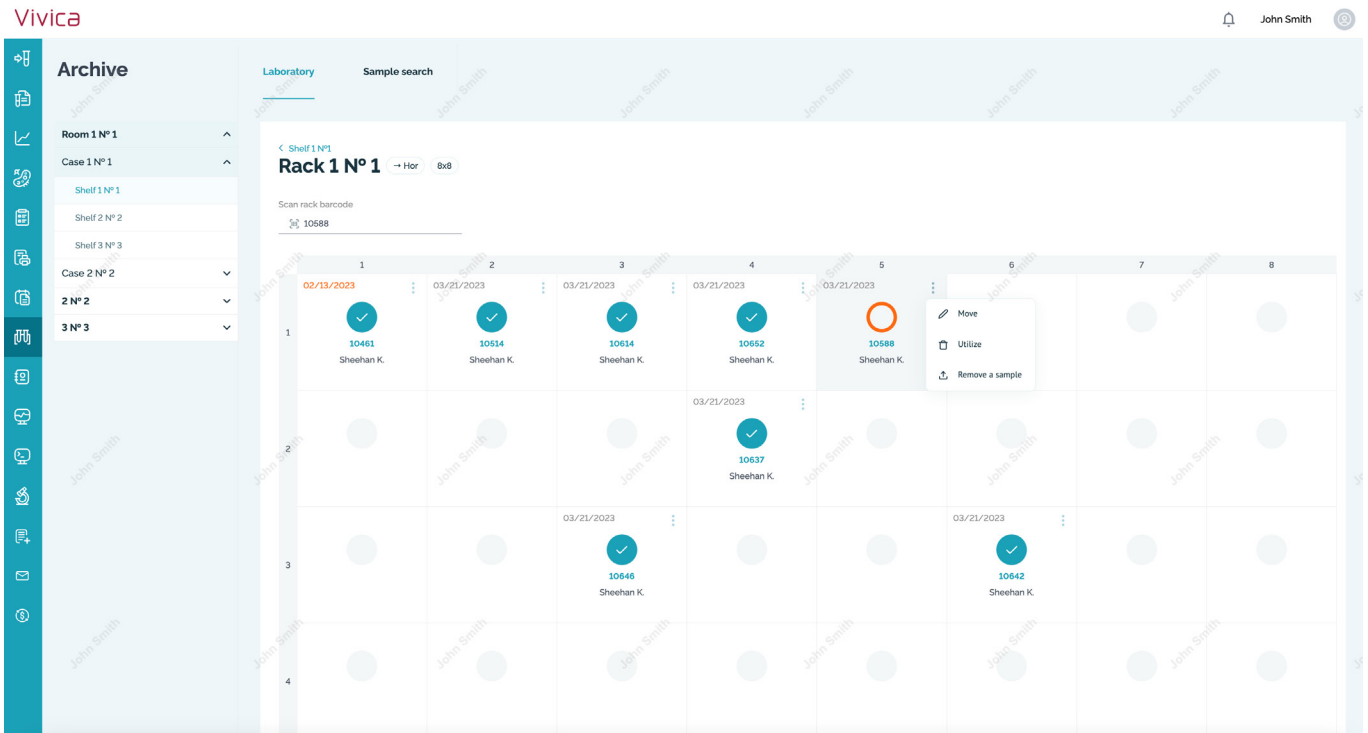
you with free set-up instructions and consultations. However, if you require our assistance in deploying the system, we offer supplemental help at a reasonable price. In addition, if you happen to be our first client in your state, we will provide deployment support for free.

**No additional server equipment necessary.** By including server capacity in the price of Vivica, there is no need to purchase costly server equipment or upgrade server capacity to handle an increase in operations.

**Economy of scale.** The fees per test with Vivica decrease as the volume of operations increases. Additionally, if the volume of research decreases, the total cost of service access will also decrease potentially all the way down to our minimum fee, which covers reserve capacity and storage of accumulated data at the lowest possible price.

**Cancellation protection.** In the event that unforeseen circumstances lead to discontinuing the use of Vivica,

## Archive Form



we offer one month's worth of data storage capacity and unlimited data downloading during that period without any additional charges.

**Scalable fee structure.** You have the option to pay for a set number of tests in advance as a package deal, which comes with a discounted price. This allows you to better manage your expenses and adjust your payment plan in case you experience rapid growth in the volume of completed research.

Vivica simplifies cost management and provides predictability, while

also adapting to any fluctuations in the volume of your operations.

### Proactive capacity development

Our business plan includes platform development in various directions to enable laboratories to respond to rapidly changing and unforeseeable demands. Unlike traditional LIMS, our development roadmap anticipates and builds new cutting-edge capacities before the market requires them. As doctors, medical researchers, technicians, and managers, our first-hand experience in health-care informs our knowledge of changing dynamics in the field,

including patient expectations. Therefore, we can project future needs and develop capacities we know are needed. For example, we recently released an automation module for microbiology and will soon release a module for pathology.

In addition to developing modules for cytological, histological, genetic, and clinical research, as well as support for biobanks, Vivica is currently developing capacities that will enable a laboratory to deliver test results directly to patients (preanalytical and post-analytical stages), organize doctor-patient interactions (preanalytical and post-analytical), actively use self-sampling (preanalytical), manage self-collected samples (preanalytical), manage the point-of-care-testing equipment (POCT), integrate test results with the patient's clinical pathway (post-analytical stage), and integrate with clinical trials (post-analytical). Other functionalities will follow.

## Who are we?

We are a team of IT experts and medical professionals, including physicians, pathologists, and laboratory diagnosticians with up to 40 years of medical practice. By pooling our collective knowledge, we have developed the Vivica platform, which includes specialized services and software products that address the needs of laboratory personnel, doctors, nurses, physician assistants, and patients to ensure effective operations and services.

We are excited about the prospect of establishing a long-term partnership with you. As a first step, we propose scheduling an online demonstration of Vivica at your convenience or arranging an in-person demonstration at your location.



## Notes

Contact us to learn more  
[info@lifedl.net](mailto:info@lifedl.net)

<https://about.vivica.us>

Life Data Lab, LLC  
325 Hudson Street, 4th Floor  
New York, NY 10013

Copyright © 2024 Life Data Lab, LLC  
Vivica and the Vivica logo are trademarks  
of Life Data Lab, LLC