labOS LIS
The heart of your lab

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LabOS’s fully integrated platform was created to streamline a lab’s offering, create cost efficiencies, and improve the quality of service it can provide to clients and patients. Enhanced with cutting edge decision support technology, it offers multi-specialty workflows to address the complexities of specialty clinical diagnostic laboratories.

LabOS creates efficiencies through seamless connectivity, by automating manual processes, by eliminating errors, and by offering physicians a complete range of functionalities. It is fully configurable and customizable on several levels, offering an unprecedented degree of control over your labs’ operations. It is seamlessly scalable to support any test, sample, or device across any volume of laboratories, including at multiple sites.

Its open architecture makes it easy to integrate with other software. It consolidates and manages data from different sources (lab instruments, EHRs, POC devices, etc.) to enable easy monitoring, data analysis and collaboration of healthcare providers, insurance companies, and patients for better patient care. This is highlighted by more accurate detection capabilities, faster turnaround times, and diverse reporting capabilities.

LabOS’s flexible configuration allows its users to pick and choose their specific needs from a large menu of modules, including Hematology, Chemistry, Microbiology, Anatomic Pathology, Genetics, Blood Bank; and administrative functions, such as Collection, Specimen Tracking, Workflow Management, Customer Service, Distributions, and Billing. Customers can also adjust auxiliary services (like adding process logic, new interfaces, etc.).

LabOS is patient-centric by design. By default, tests are organized by patient, enabling advanced and more accurate diagnostic capabilities. Some mechanisms to ensure LabOS stays patient-centric include: prevention of duplicates through automatic patient identification - LabOS will automatically suggest similar patients in terms of personal details and medical tests as patient personal data is inputted, or comes through an interface; and LabOS can also automatically merge similar patients based on user defined rules for more accurate results.
LabOS is a game changer. No longer must consumers mix-and-match complicated systems and modules. LabOS is a central management platform which consolidates the entire range of lab testing departments as well as all administrative functions. This unique product eliminates the need for any third party software. This extends to laboratories that operate across multiple sites – including remote sites.

**Designed for interoperability**

A prerequisite for the advancement of the healthcare industry is efficient and scalable data exchange between external systems, as well as streamlined workflows with partners. LabOS is designed for interoperability so it seamlessly connects to clients' EMRs through standard HL7 (or other proprietary) interfaces without middleware. It boosts efficiency and accuracy, and reduces errors in several ways:

- LabOS uses standard components and monitoring tools.
- LabOS's open API ensures open communication is scalable and accurate, and that new innovations can be incorporated quickly.
- A single connection engine allows for an unlimited number of analyzers, pre-analytical instruments, and robotic lines from any number of vendors to be simultaneously connected to LabOS. LabOS also allows users to add self-built interfaces and drivers.
- LabOS uses any standard database.

**User interface**

LabOS's user experience includes the look and feel of familiar apps with embedded formulas and spreadsheets. LabOS puts customer needs at the forefront. Designed for its users, and with a strong emphasis on design, LabOS's interface is task-driven and tailored to users' needs. It focuses on simplicity, and the availability of information, reducing human error, and saving time.

Customizable dashboards allow users to monitor loads and bottlenecks through counters, widgets, and graph displays which are all clickable for easy navigation to more in depth information.

LabOS is built with function specific workflows minimizing the number of screens needed for specialty labs such as pathology or genetics, and for seamless navigation. Moreover, LabOS features integrated systems so that users can perform advanced functions, such as mail, from within the app.

**Fully customizable to meet unique needs**

With LabOS, users are given greater control of their data. LabOS offers users the flexibility of a tailored solution to the finest detail. Stages in workflows, how results are recorded and displayed, user privileges, and much more, can all be configured, resulting in a lab that is entirely paperless. Users can also configure workflow, flag setting, logic and other parameters within LabOS' smart logic engine, to aid the decision making process. Open XSL allows users to format any LabOS' report to their preference.

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The Only Laboratory Information System You’ll Ever Need

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**Decision support technology**

LabOS is lined with cutting edge, smart logic for more accurate detection capabilities, and to accelerate patient care. Sophisticated system logic optimizes each and every lab process, from testing (e.g. auto-result verification and delta checking), to reporting, and billing. This results in more streamlined operations, eliminating unnecessary steps and redundancies, and reducing errors.

LabOS’s patient-centric design ensures no data is missed and that similar cases are analyzed together. LabOS enables the user to configure rules for alerts (such as to call the physician/patient) or to automatically do a reflex for a test, based on pre-defined sophisticated rules, and patient comorbidities.

**The latest technology. Always!**

A LIS software must be up to date with the most advanced technologies. With over 60% of LabOS’s focused global workforce dedicated to R&D, LabOS is consistently upgraded with the latest innovations to ensure customers are equipped with a best-of-breed product. All customers are offered the same monthly software releases. During upgrades, LabOS functions fully in parallel to the upgrade, without the need for downtime.

**Compliance**

LabOS is structured for maximum security in adherence with international diagnostic criteria, such as ISO, and FDA’s CFR 21 where applicable. It features comprehensive audit trails, and offers permissions on multiple levels according to user, screen, activity, and modules. LabOS is built to ensure that users comply with HIPAA, MACRA, and the GDPR; it also supports compliance with CAP and CLIA requirements.

“**You can buy two or four systems and put them together and have what Netlims has, but as a single suite, you will not find what Netlims has.”**

COO, Sherman Labs.

**Stability**

One of the most important factors in ensuring a high level of service, efficiency, and employee satisfaction is system stability. LabOS’s engine has been operating for over twenty years, with no downtime, by some of the largest names in the industry. Designed to avoid downtime at all costs, all LabOS components are redundant. Moreover, upgrades are designed to be carried out in parallel, and do not require system shut down.

Since LabOS is holistic, it eliminates the need for multiple interfaces and complicated synchronizations between components - which can leave LIS systems vulnerable to complications. Fully backed-up, LabOS further ensures stability by supporting unlimited workloads with no single point of failure.

**Data security**

LabOS’s extensive permission mechanism gives users just the right amount of data access to carry out their jobs effectively. Role-based access control, user overrides, and links to the organization’s Active Directory, mean tight access is easy to define.

**No need for extra databases or middleware!**

LabOS’s unified structure creates unique advantages:

**One database**

Data across all modules are consolidated.

**Consistent data**

Newly inputted data are available in real time across all applications uniformly, including mobile, ensuring all data are consistently up to date.

**Unified ordering**

LabOS enables the ordering of tests across all disciplines in one order, a benefit that laboratories can offer physicians.

**Unified reporting**

This allows for centralized analysis, and is a more patient-centric approach.

**Cross-site sample management**

LabOS manages and tracks sample movement between sites, streamlining the optimization of test performance according to lab specialty.

**Centralized management**

For more simple and consistent system management.

**Inbuilt data management tools**

Including storage, document management, dictation capabilities - such as recording and transcribing. Attached files (such as printed orders, signed ABNs, reference lab result reports, etc.) are managed as part of the intrinsic dataset.
Comprehensive quality control

Quality control (QC) is fully integrated into LabOS such that LabOS will automatically detect if something is abnormal and will pause result release, alerting the user. This is based on defined norms and a moving average of patient and QC results. QC can also be monitored at any time with one click from the dashboard for peace of mind. Since QC settings are also tied to patient results, they are more accurate, leading to less instances of re-runs due to failures. QC is accompanied by a rich set of reports beyond Levey Jennings (such as Youden Plot, and Cusum), and seamless background documentation (omitted points, logging, and more). The system can warn and stop auto-verification, and allows for faster and easier inspections, saving precious lab personnel time in responding to regulatory requirements.

Audit trail

An audit trail is illuminating in lab management and is paramount for security. LabOS automatically tracks user actions from setup, to ordering and taking samples (user, test, time, comment, distribution, approval), to carrying out system functions (LabOS tracks a user’s activity, as per definition), and distribution (why, when, and how a sample was distributed including full documentation). LabOS also tracks all phlebotomists en route, the stages samples pass through in an order, and any added or modified personal information.

Mobile apps

To meet the needs of the laboratory ecosystem, LabOS offers outreach mobile applications geared to physicians (LabMD), patients (MyLab), and drivers and phlebotomists (LabWay). As part of LabOS’s holistic system, these outreach modules access data directly from LabOS’s database. This eliminates the need for periodical synchronization, and means that all data actions are immediate across the system, whether carried out on a web or mobile application. Alerts for abnormal results can be received by patients and doctors in real time, allowing for an immediate response and better patient care.

Diverse reporting capabilities

LabOS offers a comprehensive range of built-in lab reports to accommodate the specific requests of all users, including doctors, technicians, and managers. Recurring reports can be scheduled, and run in parallel to LabOS, such that users can either check reports when they wish, or they can choose to receive reports via multiple distribution options - including auto-faxing, auto-printing, email, or through an HL7 interface. Reports are automatically stored within LabOS and can be shared, emailed, or retrieved at any stage. Each report can be independently customized according to the level of detail required, desired frequency of report, required ranges, and desired layout.

Fully integrated billing

Clinical laboratory billing can be burdensome. LabOS’s efficient, fully integrated billing accelerates the completeness of claims, ensures their accuracy, and thus reduces miscalculations and underfunding. LabOS automatically tracks every aspect of billing, with items organized per insurance policy. To match LabOS’s flexible offering, billing will automatically synchronize changes such that, for example, if additional tests are required, billing will automatically update without the need for any manual input.
Partner with LabOS

LabOS’s high quality and efficient 24/7 continuous customer service is an inseparable part of its user experience. The challenges of implementing LIS software are unique to each organization, and LabOS customers are accompanied through all stages - from project management, to training, installations, troubleshooting, and everything that is needed to successfully and quickly complete such a significant project. Once up and running, LabOS offers unprecedented industry turnaround times - new versions and upgrades are released each month with enhancements and new features. Instrument and interface connections are delivered within a maximum of a few weeks (usually days).

Open API enables high levels of interoperability

With LabOS, the lab is empowered to efficiently connect their LIS with the technologies and tools that they choose. There is no need to rip and replace current tools as LabOS can integrate with them and will support further scalability. With LabOS’s accessible, well documented, open REST API, users can add, modify, and even completely replace system logic, as well as program extensions of components.

Built for growth

LabOS’s robust design encourages growth as modules and unlimited extra users can be added with no structural change to the system. With an open API, LabOS is also ready for the adoption of upcoming and future technologies.

SaaS model for simplicity

Built with sustainability in mind, LabOS is a SaaS product hosted in the cloud. Where this is not feasible, LabOS also has on-premises hosting options. Award-winning, LabOS’s SaaS model brings the best of 25 years of experience, working with the largest HMOs to an out-of-the-box solution. It ensures users are always up to date with the latest version, without ever having to worry about maintenance or costly, time-consuming software updates. The ROI for our SaaS model can be within a matter of months; a LabOS purchase includes licensing, hosting, and maintenance, leaving the customer with a best practice solution.

Unlimited availability and access to historical data

LabOS enables unlimited data storage, and will store data according to the customer's storage capacity. This means that there is no need for data archiving or purging, and that vital historic data can be retrieved and accessed instantaneously.

Accelerate your ROI

LabOS’s intuitive system with mobile access enables employees to complete tasks in less time, so they can manage larger workloads; extensive automation, sophisticated management tools, and the elimination of unnecessary steps improves labs’ efficiency, allowing users to focus on completing their work units. Since LabOS supports all departments and devices with its holistic architecture - eliminating the need for multiple systems and integrations - it largely reduces operating costs. The option of working in the cloud allows for flexible scalability without limitation, eliminating the need for expensive investments in infrastructure and reducing the costs of the ongoing maintenance.

“I like the hands-on approach Netlims has to its existing products and customers.”

IT Manager, Shiel