Overview

CyberLab is a web-based order entry and result reporting system that integrates with virtually any major laboratory information management system.

The product has been developed in close collaboration with all domain specialists including GP’s, hospital staff, lab staff and IT experts. This has resulted in a very user-friendly application that can be tailored to meet the requirements of each individual CyberLab user.

CyberLab increases efficiency at all levels of the clinical data information flow by offering high-performance, reliable and accurate test requesting and result reporting.

CyberLab enjoys a large customer base spread throughout Europe and is used in both private and hospital environments.

Key benefits

- Secure and guided test requesting
- Customizable result reporting
- Multiple LIS and HIS communication
- Seamless external system integration
- Full security and traceability
- Latest web technologies
- Zero-footprint on clients
- Context-sensitive help

“CyberLab streamlines communication between primary care and the laboratory”
Fast, personalized data access

CyberLab features fast and intuitive search screens to speed up the requesting and reporting process. In order to serve both hospital staff and general practitioners, the patient and order lookup can be customized to ensure a personalized experience.

GP’s have fast access to their own patients or all patients treated in a group practice. Hospital staff on the other hand have direct access to all patients from their ward.

All search options can be stored and reused per individual user. An individual start page ensures immediate access to the desired information.

Features

- Fast and intuitive lookup screens
- Wide range of search options
- Advanced customization
- Access is tailored on a user role basis
- Auto-refresh functionality

Advanced and customizable search options.

Search options can be locked and reused for each user.

Auto-refresh ensures up-to-the-minute lab information.

Icons indicating the presence of urgent, abnormal and new results for the selected patients.
Flexible and guided order entry

Paperless test requesting is definitely one of the challenges that every clinical laboratory will face in the near future. CyberLab's simple “point and click” ordering screen and advanced lab communication is the ideal solution to tackle this.

Customization is a key feature, enabling test requesting that meets the requirements of different user types. GP's and hospital staff can have unique panels of tests. Hospital staff have access to patients from their wards, while GP's have access to their own patients and are able to define new patients.

Configurable rules ensure that the user is guided during order entry: only appropriate tests can be requested, multiple orders can be created at once, all required information for the laboratory is gathered, sampling lists are created. Orders containing test requests for different laboratories are automatically split up.

At any time, the requestor can monitor the progress of the lab order.

For the laboratory, time and cost reduction, flexibility and less errors are just some of the advantages.

Features

- Simple test requesting
- Intelligent requestor guidance
- Auto-prompt for required information
- Ward-specific test profiles
- Built-in order validation procedures
- Order follow-up
- Advanced LIS / HIS communication
- Sample label and barcode printing
- Access from result reports

Selection of tests by discipline

Once the order is sent to the LIS, CyberLab produces a detailed order overview, including an order barcode and a sampling list.
CyberLab’s result reporting screen is extremely flexible and feature-rich. It can produce cumulative views of up to 20 orders simultaneously for a single patient. Navigation buttons allow browsing through the patient’s lab results.

A wide range of layout and filter options are available to customize the look and feel of the consultation screen.

Lab results are logically displayed by lab discipline and may be marked by result flags. Urgent and new results are clearly highlighted. Confidential results can be hidden from unauthorized users. Popup screens provide detailed information on the selected order or result value.

**Features**

- Cumulative result reports
- Structured microbiology results
- Support for graphs and images
- Printer-friendly PDF reports
- User-specific preferences
- Advanced customization options
Advanced result views and reports

CyberLab has the ability to present different result types originating from different external systems.

Microbiology tests are reported in a structured format, providing a clear overview of the detected isolates along with their antibiograms. History graphs can be displayed for multiple tests simultaneously for a configurable time frame. CyberLab also supports image results and electrophoresis graphs.

Result reports can be patient-scoped or ward-scoped, the latter offering a result overview per hospital ward for a specific test panel. In addition to the on screen result views, CyberLab can generate customizable, printer-friendly PDF reports.
External system integration

CyberLab can easily be integrated with third party applications such as Electronic Patient Records and GP packages.

As CyberLab is an expert in laboratory test requesting, sampling list generation and result reporting, more general applications such as EPR systems can directly access CyberLab and embed its specialized screens.

CyberLab can be integrated in external systems through HTML and XML based connection layers, supporting the most recent web standards such as SOAP.

Connectivity

- Seamless EPR integration
- Single sign-on support
- Context-restricted access
- Automatic context synchronization
- HTML and XML connections
- Support for SOAP standard

CyberLab integrated in a third-party EPR system for laboratory test requesting.
Safe and secure

CyberLab is all about the transmission of medical data over a network. Therefore, security is crucial.

If implemented in a hospital, CyberLab makes use of the security provisions available (firewall, etc.). If no security provisions are available, MIPS will assist in setting up a suitable solution for secure data transmission.

All successful logins and login attempts in CyberLab are registered and system managers have the tools to review the session logs. In addition, all user actions performed on lab orders are equally logged and available for review making CyberLab the ideal solution for a GLP-compliant environment.

Application and communication management

Application configuration is often a complex exercise. To avoid this, CyberLab can import configuration data from the LIS and even ensure continuous configuration data synchronization through XML communication channels.

CyberLab can communicate with several laboratory and hospital information systems simultaneously using international standards such as HL7 and HPRIM. Coding systems and PIN providers allow CyberLab to communicate with several partners at the time. Using the ADT messages (Admission, Discharge, Transfer) from the HL7 standard, patients are followed by CyberLab as they move through the hospital.

CyberLab uses dedicated communication daemons to exchange information with each individual external system. These communication channels can be setup and managed from within CyberLab.

State-of-the-art technologies

CyberLab uses the latest web technologies and supports several browser types and versions.

Moreover, CyberLab is now also available with a dedicated user interface for iPhone, iPad, CMotion and other handheld devices.

Administration

- Security and authentication
- Full session logging
- User-based action logging
- Based on modern technologies
- Dedicated mobile applications
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