



The Laboratory functionality in MEDITECH's Laboratory and Microbiology solution streamlines workflow in the laboratory, from requisitioning through final reporting. It allows personnel to efficiently process patient specimens, flag abnormal test results, display result trends, and control quality. As caregivers gain easier access to lab results and reports, patient safety is improved and costs are reduced.

Highlights:

- Track specimens across multiple sites and facilities
- Efficiently collect specimens through phlebotomy handheld functionality
- Enhance decision making via timely alerts, on-line patient inquiries, and reports
- Centrally access common routines and reports via roles-based desktops
- Effectively communicate results to both internal and external care providers
- Seamlessly exchange orders and results with outside reference labs
- Monitor instrument malfunctions and laboratory testing procedure inconsistencies via quality control functionality

Laboratory Enables Phlebotomists, Technicians, and Other Personnel to: Optimize Workflow with Roles-based Desktops

Laboratory personnel can efficiently manage their daily workloads through a set of roles-based desktops. These desktops enable users to perform a variety of functions on multiple laboratory specimens from a central screen. Several desktops are shared between MEDITECH's Laboratory applications, including desktops for: Data Processing, Infection Control, Patient Reports, Management Reports, Requisitions, and Specimens. Some of the key desktops for General Laboratory staff include:

- Specimen Desktop: Allows laboratory staff to enter results, make inquiries, prepare labels, and track and manage specimen storage
- Phlebotomist Desktop: Helps phlebotomists receive and label individual and batch specimens when performing rounds
- QC Desktop: Used to track quality control performed in the Laboratory
- Analyzer Desktop: Used to receive test results from analyzers and to record the verified results to individual specimens.

Perform Network-wide Requisition Entry

Laboratory personnel can easily order tests and assign collection categories via requisition routines. Staff can place orders from various sites, including physicians' offices, off-site clinics, and emergency rooms. From a single screen, staff can:

- Place orders for past or future dates
- Assign workload credit for specimen collection
- Add unlimited lines of free text or coded comments
- Capture charges
- Check for duplicate orders and evaluate order rules.

Efficiently Collect and Verify Specimens

The Laboratory solution features a variety of tools to streamline the specimen collection and verification process, including the ability to track specimens across multiple sites. Features include:

- User-definable bar code collection labels
- Positive patient identification using phlebotomy handheld functionality
- Unlimited, user-defined collection categories for timed draws
- Efficient specimen processing by receipt of individual specimens or by batch
- Re-collection and reprint label capabilities
- Automatic capture of specimen collection time and user from Order Management
- On-line tracking screens for outstanding and overdue specimens.

Control Patient Results through Flexible Result Entry Options

Result entry routines allow personnel to enter results via workstations or on-line automated analyzers. Results can be entered by individual specimen or patient, or documented from worksheets or processing screens. Result entry enables you to:

- Incorporate your department's processing workflow via user-defined, dynamic process screens and spreadsheets
- Increase workload and processing speed via instrument autoverification
- Perform delta checking and reflex evaluation
- Easily access previous patient test results
- Seamlessly document physician callbacks and result read backs
- Interpret comments by test result value
- Capture workload automatically
- Result specimens through user-defined result entry screens
- Verify profile components with results released individually
- Report edited results with corrected comments automatically
- Page physicians via cell phones or pagers.

Maintain Safety Protocols through Rules-based Logic

Rules-based logic capabilities can be applied to all areas of the Laboratory. Laboratory personnel can define evaluation and calculation criteria, which help technologists ensure the patient receives safe, quality care. This includes:

- Order logic
- Site rules
- Result calculations
- Charge rules
- Purge rules
- Test table criteria
- Reflex testing
- Reporting logic.

Assess Critical Results, Inquiries and Reports

MEDITECH's Laboratory solution includes a wide range of tools to ensure that results are made available to the appropriate clinicians as soon as they become available. Our Specimen Inquiry routine allows users to track specimen processing, such as the specimen status, patient information, users, dates/times, and test information.

MEDITECH also provides a series of standard and user-defined patient activity and summary report formats.

Moreover, the system provides the ability to:

- Deliver results based on user-defined criteria
- View results in the Electronic Health Record and over the Internet
- Automatically print, fax, or e-mail patient reports via Forward Advantage.

A series of flexible management reports are provided to help laboratories capture information easily and efficiently. These reports, which are available for Laboratory or for our full LIS, can be scheduled to automatically compile and print. Some of the standard management reports available in our Laboratory include:

- Edited Verified Results Report
- Outstanding Specimen/Test Report
- Result Activity Report
- Specimen Log/Marker/Review Report
- Exception Report
- Unverified Specimen Report.

Monitor Result Accuracy through Automated Quality Control

A Quality Control (QC) feature allows personnel to monitor the accuracy of test results in the laboratory as well as create reports that can be used to meet state regulatory and College of American Pathologists (CAP) requirements. MEDITECH's Laboratory Quality Control allows staff to:

- Define QC standards and controls
- Order and result QC specimens manually or via analyzer routines
- Process QC specimens on a laboratory worksheet
- Print QC results
- Control integrated inventory management and maintenance scheduling for laboratory instruments.

Laboratory also allows you to analyze and view specimen test results in graphical and statistical formats. QC analysis and statistics graphs available include:

- Levy-Jennings Plot with Data Summary
- Youden Graph
- Daily Log
- Multi-rule Log for Controls
- On-line Cumulative Summary
- Exception QC Results Report
- Summary Report with specified dates.

Reap the Benefits of Integration

Laboratory seamlessly exchanges information with other MEDITECH applications to promote a fully-integrated EHR. For example:

- Charge and test information are sent from Laboratory to Revenue Cycle
- Results and reports can be accessed by care providers throughout your enterprise in real time
- Integration with MEDITECH's Pharmacy solution gives technologists and pharmacists access to appropriate clinical information for better decision making
- Test orders, results, and cancellation messages file back into Order Management.

Laboratory reaches beyond laboratory walls, offering on-line connectivity to physicians' homes and offices, hospitals, reference labs, pharmacies, and insurance companies. This provides valuable services, including the ability to easily communicate results, view historical patient data, and develop reports.

For more information about us, contact a MEDITECH Marketing Consultant.

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