



The Microbiology functionality in MEDITECH's Laboratory and Microbiology solution streamlines workflow and eliminates the time-consuming paperwork associated with processing microbiology specimens. Staff members benefit from instant access to previous results, robust reporting capabilities, and seamless integration with MEDITECH's Pharmacy solution.

Highlights:

- Instantly access common routines and reports via roles-based desktops
- Process a variety of specimens and results including: bacteriology, mycology, parasitology, virology, and mycobacteriology
- Perform paperless processing
- Enhance epidemiology and surveillance via Infection Control functionality
- Facilitate decision making through MEDITECH's integrated Pharmacy solution
- Efficiently report results

Microbiology Enables Technicians and Other Personnel to:

Optimize Workflow with Roles-based Desktops

MEDITECH's LIS applications share several common desktops to assist care providers in their daily workload, including desktops for: Data Processing, Patient Reports, Management Reports, Requisitions, and Specimens. In addition, Microbiology personnel benefit from an Infection Control Desktop, which enables your infection control group to easily track patient infections. This is accomplished by automatically flagging organisms using markers or other customer-defined screens. Additional desktops specific to Microbiology staff include:

- The Microbiology Analyzer Desktop: Allows users to process microbiology specimens with analyzers and record verified test results
- The Microbiology Quality Control Desktop: Allows users to track and report on quality control for the Microbiology department.

Perform Network-wide Requisition Entry

Microbiology personnel are able to order tests and assign collection categories with requisition entry routines. The rules-based logic inherent in our Microbiology functionality helps staff evaluate appropriate order criteria and perform duplicate checking. Furthermore, the system can require source and description information to ensure appropriate specimen handling. From a single screen, staff can:

- Perform medical necessity checking
- Place orders throughout the EHR
- Complete reflex testing based on user-defined criteria
- Automate patient billing.

Efficiently Collect and Verify Specimens

Microbiology facilitates the process of collecting and receiving specimens by enabling technologists to quickly create collection lists and verify the receipt of specimens in the Laboratory. The functionality provides several

timesaving features, including:

- The ability to generate user-definable specimen bar code and collection list labels
- Collection lists and labels printed in room number order for a geographically efficient collection route
- On-line tracking screens to track outstanding and overdue specimens.

Control Patient Results through Flexible Result Entry Options

Microbiology result entry routines allow personnel to quickly enter individual results via user-defined result entry screens or workcards, and to simultaneously enter batch results for multiple specimens. Results can also be entered by specimen, patient, or worksheet. Result entry also provides the ability to:

- Auto-default no growth results based on procedure and time
- Define tasks, (i.e. instrument maintenance or incubator temperature capture), and associate with a workbatch
- Include/exclude specimens in a batch via rules-based logic
- Perform reflex testing for automatic ordering and deleting of tests and procedures
- Determine susceptibilities based on appropriate protocol, organism, and body site
- Release preliminary results prior to report finalization
- Result via procedure-specific screens
- Transmit results across the Electronic Health Record in real time.

Review Epidemiology, Statistical, and Management Reports

Microbiology offers organism and infection control reports to track the presence and/or spread of potentially infectious organisms. A series of workload statistics help to analyze the work efforts required to process specimens, and include:

- Infection Control Report, which compiles data for patients where potentially infectious organisms have been isolated and automatically captures information such as location, susceptibility, and source of infection
- Organisms Isolated Report, which identifies the number of times an organism was isolated over a period of time, as well as location of the isolated organisms—the susceptibility of an organism can also be graphed over a user-specified period or date range
- Antibiogram Report, which identifies the percentage of organisms susceptible to particular antibiotics.

In addition, a series of flexible management reports are available to help organize and prioritize work in the Microbiology department. Management reports can be scheduled to automatically compile and print. The following are some of the standard management reports available in Microbiology:

- Edited Final Verified Results Report
- Outstanding Specimen/Procedure Report
- Result Activity Report
- Specimen Log/Marker/Review Report
- Exception Report
- Quick Enter Results Log
- Unverified Specimen Report.

Reap the Benefits of Integration

MEDITECH's system-wide integration not only ensures that necessary information is shared between MEDITECH's Laboratory applications, but also promotes the exchange of information across the MEDITECH EHR. For example:

- Integration with MEDITECH's Pharmacy gives technologists and pharmacists access to appropriate clinical information, such as antibiotic date, time, and dose information, promoting better decision making
- Clinical alerts flag appropriate personnel based on patient's microbiology and pharmacy data
- Real-time susceptibility information is available in Pharmacy
- Charge and procedure information is sent to Revenue Cycle
- Procedure data and results can be evaluated by physicians during ordering.

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