MEDITECH Expanse delivers integrated care which includes our Microbiology solution as part of our full EHR. Microbiology functionality in MEDITECH’s Laboratory and Microbiology solution improves efficiency and streamlines workflow, eliminating the time-consuming paperwork associated with processing microbiology specimens. Through roles-based desktops, your staff can benefit from instant access to previous results, robust reporting capabilities, and seamless integration with MEDITECH’s Pharmacy solution. By accessing a patient’s EHR directly from their desktops, staff can easily view information such as transcribed reports, current medications, and lab results.

Manage Workloads Using Specialized Desktops

As part of Microbiology, MEDITECH includes several shared and specialized desktops from which staff can coordinate and manage all aspects of patient care and administrative tasks. Desktops consolidate essential routines and information into a single screen and are tailored to users’ job responsibilities. Available desktops include Data Processing, Patient Reports, Management Reports, Requisitions, and Specimens. User menus can be customized to provide direct access to specific routines and reports from other MEDITECH applications, and can include custom reports created with our Report Designer tool. This centralized access eliminates the need to drill down through multiple menu levels. 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 barcode and collection list labels.
- Collection lists and labels printed in room number order for a geographically efficient collection route.
- Online 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 MEDITECH EHR 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 helps to analyze the work efforts required to process specimens and includes:

- Infection Control Report: 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: 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: Identifies the percentage of organisms susceptible to particular antibiotics.

Flexible management reports help organize and prioritize work in the Microbiology department. Management reports can be scheduled to automatically compile and print. Standard reports include:

- Edited Final Verified Results Report.
- Exception Report.
- Outstanding Specimen/Procedure Report.
- Quick Enter Results Log.
- Result Activity Report.
- Specimen Log/Marker/Review Report.
- Unverified Specimen Report.
Review Requisitions, Purchase Orders, and Supplies through Reporting

Materials Management comes with a large selection of standard reports to help your organization analyze and track your purchases, supplies, and vendor performance. Some of the standard reports include:

- Online inquiry of any purchase order, in either summary or detail format.
- Single inquiry viewing of receipt and purchase order information.
- A worklist of all purchase orders not verified, as well as receipt/invoice discrepancies.
- Online inquiry of the current receipt status for any purchase requisition.
- Requisition lists provided in summary and detail formats by number or department.
- An Item Dictionary audit trail.
- Real-time inquiry of stock and items.

Experience the Benefits of Integration

MEDITECH’s system-wide integration ensures that necessary information is shared not only between MEDITECH’s Laboratory applications but also across the entire 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 decisions.
- 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, contact a MEDITECH Marketing Consultant.