MEDITECH

Blood Bank

Functionality Brief

MEDITECH's Blood Bank solution tightly integrates donor, unit, transfusion, and patient history information with data in the MEDITECH EHR. The solution—which is FDA regulated—promotes patient safety and reduces turnaround times by flagging abnormal test results, reporting test and transfusion results, minimizing product waste, utilizing expert rules when recording, and performing error checks.

Highlights:

- Centralize access to common routines and reports via roles-based desktops
- Recruit donors and track appointments for blood collection
- Track Blood Bank units through inventory management and utilization reports
- Electronically crossmatch Blood Bank units to patients
- Verify and document Blood Bank unit and patient data on-line during transfusion via integration with the Patient Care and Patient Safety solution
- Efficiently report and track Blood Bank services across multiple facilities
- Manage work performed in Blood Bank via extensive reporting capabilities

Blood Bank Enables Lab Technicians, Scientists, and Other Staff to:

Optimize Workflow with Roles-based Desktops

Roles-based desktops streamline laboratory workflow by enabling all users to access their most commonly used routines from a central location. Several desktops are shared between MEDITECH's Laboratory applications, including desktops for: Data Processing, Infection Control, Patient Reports, Management Reports, Requisitions, and Specimens. Additional desktops are designed to meet the specialized needs of Blood Bank personnel and include the following:

- Unit Desktop: Enter, issue, assign, transfuse, and inquire about units, as well as print unit labels and track inventory
- History Desktop: Edit, release, print, and back up history data
- Donor Desktop: Enter, view, delete, merge, and unmerge donor records
- QC Desktop: Track quality control performed in the Blood Bank
- Analyzer Desktop: Receive test results from analyzers and record the verified results to individual specimens.

Effectively Recruit and Manage Blood Donors

The Donor feature allows your staff to efficiently recruit donors and track their appointments for blood collection. In addition, your organization can maintain a current donor database to track blood donor information. Using MEDITECH's donor management capabilities, staff has the ability to:

- Maintain blood types, antigen/antibody profiles
- Track donor schedules and information
- Evaluate criteria, check eligibility, and schedule appointments
- Organize donor recruitment phone lists and letters on-line
- Compose user-defined donor questionnaires to streamline qualification processes

- Define error checking logic to allow staff to compare current information against data collected during the donor's last appointment
- Automatically generate deferrals when donors do not meet eligibility requirements
- Generate donor statistical reports.

Track Inventory and Blood Utilization

Blood Bank supports comprehensive inventory management by tracking physical inventory, as well as inventory utilization, based on pre-transfusion data. All transfusable products are tracked from the time they are entered into inventory through final disposition. Through MEDITECH's inventory management capabilities, staff has the ability to:

- Scan units into the inventory, either by individual unit or in batches
- Automatically requisition for those Blood Bank units requiring testing
- Access patient history, identifying antigens, antibodies, and markers to assure patient safety
- Report on inventory through comprehensive reporting tools.

Simultaneously Process Multiple Specimens

Use of electronic worksheets and process screens eliminates manual entry of test results for specimens and units, resulting in more streamlined and efficient processes, greater accuracy of information, and improved patient safety. Specimen processing enables Blood Bank personnel to:

- Preview specimens and tests in batch format
- Automatically release crossmatches using rules-based logic
- Utilize process screens to quickly result and efficiently track units
- Efficiently process multiple units or specimens at one time.

Perform Electronic Crossmatching

Electronic crossmatching saves critical testing time by checking for incompatibilities between a patient's blood and a unit of blood or blood product prior to transfusion. The electronic crossmatching capabilities allow users to safeguard that:

- Patient specimen and blood type results are current
- Blood type results were confirmed by two determinations
- Patient and donor units are ABO compatible
- Testing for antigens and antibodies is complete
- Antibody screen results are not positive
- Clinically significant antibodies are not present
- Donor ABO group and Rh type on the unit label are confirmed.

Verify Patients and Units During Transfusion Administration

MEDITECH's Blood Bank and Patient Care and Patient Safety solutions are fully integrated, fostering the sharing of Blood Bank unit and patient data between the two products. All data relevant to transfusions is updated in real time in the Transfusion Administration Record (TAR), a component of our Patient Care System. The TAR, which is accessible to both nurses and Blood Bank personnel, provides an electronic method for documenting patient vital signs and transfusion reactions before, during, and after blood transfusion. The TAR provides caregivers with a central place to view information about a patient's history of blood products, thereby simplifying workflow. When used in conjunction with MEDITECH's Bedside Verification, staff can use bar code readers to scan and match patients with their blood products to verify the right patient, blood product, and transfusion time, as well as donor blood type compatibility and blood product expiration dates.

Produce Comprehensive Reports

MEDITECH's extensive reporting capabilities ensure procedures are followed and cost effectiveness is maintained. MEDITECH provides standard and user-defined patient reports, which are available in activity or summary format and viewable by physician, patient, or location. In addition, managers can better organize and oversee work performed in the Blood Bank by viewing such management reports as:

- Outstanding Specimen Report
- Transfusion Report
- Inventory reports
- Unit Disposition
- Overdue Warning Report
- Unverified Results Report
- Crossmatch/Transfusion Ratio Statistics by location or provider
- Utilization reports to assist in reviewing and ensuring appropriate use of products.

Reap the Benefits of Integration

MEDITECH's Blood Bank solution not only enables your organization to exchange information in a safe, secure manner across MEDITECH's integrated Laboratory Information System, but also shares real-time Blood Bank information with other hospital departments and MEDITECH applications. For example:

- Blood Bank test and product charges are passed to Revenue Cycle
- Blood Bank transfusion documentation flows into Patient Care and Patient Safety
- Blood Bank results can be viewed in the patient's record
- Blood Bank test orders, results, and cancellation messages file back into Order Management
- Bedside Verification matches patients to their blood products during transfusion administration.

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

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