A component of MEDITECH's Patient Care and Patient Safety solution, Bedside Verification uses real-time barcode scanning technology with both linear and two-dimensional barcode symbologies to improve patient safety and increase efficiency. Clinicians use barcode scanners to safely administer medications and transfuse blood products by confirming a patient's identity against data readily available within MEDITECH's electronic Medication Administration Record (MAR) and Transfusion Administration Record (TAR), ensuring all rights of safe medication and transfusion administration. Bedside Verification also assists in improving compliance with mandated regulatory standards as defined by CMS, The Joint Commission, and other organizations.

**Streamline Workflow**

During medication and transfusion administrations, clinicians can use various point-of-care devices, with either wireless/Bluetooth or tethered barcode scanners at the patient's bedside. Furthermore, clinicians can use Bedside Verification scanning functionality on smartphones or other handheld mobile devices through our Expanse Point of Care software. A clinician can scan his or her own employee ID barcode, the barcode on the patient wristband, and the barcode on medication/blood product packages to verify the correct identification for safe administration. From the nursing status board, clinicians can scan the barcode on patient wristbands or any other patient identifier. Once scanned, the system will automatically open the patient's chart, defaulting to MEDITECH's MAR/TAR, verifying the correct patient, and comparing the scanned data with your organization's formulary or blood bank. Warnings will also display if clinicians scan a different patient's wristband than the patient whose chart is open.

**Detect Potential Medication Errors**

To help eliminate potential errors, clinicians can use MEDITECH's Bedside Verification functionality in conjunction with the MAR to further automate medication administration, provide an additional level of patient safety, and document all details regarding administrations. Bedside Verification uses barcode scanning technology to validate medication information against the patient's electronic health record, ensuring the “Five Rights” of medication management: right patient, right medication, right dosage, right route, and right time.

During administration, the MAR provides clinicians with several decision support capabilities to improve patient care and safety, including the ability to review:

- Demographic data
- Allergies, adverse reactions, and duplicate orders
- Associated protocols with interventions, problems, outcomes, and care plans
- Test results
- Medication label comments
● Dose instructions
● Medication schedules
● Administration histories.

Upon scanning medication labels, the system displays conflict checking, generates alerts for overdue medications or incorrect dosages, reduces the occurrence of preventable medication errors, and pushes associated data (e.g., laboratory results and documented assessment data) to the clinician regarding the safe medication administration. For example, assessment rules in the MAR can warn nurses to not administer medications based on query responses such as documenting that the patient's pulse rate is lower than the defined range for medication administration.

**Identify Potential Transfusion Errors**

Bedside Verification supports the verification of blood products through integration with MEDITECH's Blood Bank product. The FDA-approved TAR provides clinicians with a central location to document vital signs and reactions assessments before, during, and after the transfusion process. The TAR contains a hard-coded Bedside Verification scanning checklist determined by your organization to confirm conflict checking and the "Five Rights" of transfusion management: right patient, right blood product, right donor, right time, and right expiration date of the blood product. Your organization can also create a manual checklist for clinicians to complete before beginning the transfusion. The Bedside Verification feature includes a time limit in which clinicians will need to verify again if the transfusion has not begun within the set time frame.

Like the MAR, the TAR also contains decision support capabilities, including the ability to view:

- Blood type and temporary blood type
- Allergies, adverse reactions, and duplicate orders
- Antibodies and antigens
- Reactions, vital signs, and intake/output data
- Special instructions
- Associated data (e.g., lab results, query results, reports)
- Historical transfusion information
- All unit transfusion information.

**Generate Reports to Extract and Compile Meaningful Data**

Clinicians have access to extensive reporting capabilities to extract and compile information for meaningful data analysis. The following are some of the standard reports MEDITECH provides:

- Compounding Verification Report
- eMAR Administration Log and Report
- eMAR Billing Report
- eMAR Dispensed Report
- eMAR Exception Report
- eMAR Measuring and Monitoring Report
- eMAR Variance Report
- Print eMAR Summaries
- Scanned/Not Scanned Report.

Your organization can use these reports to monitor trends and gather quality metrics for your own purposes as well as for regulatory agencies, such as CMS and The Joint Commission. For example, using the Scanned/Not Scanned Report, you can verify the percentage of medications clinicians are scanning versus
manually confirmed to determine which clinicians are adhering to organizational protocols. In addition, your organization can use MEDITECH's Report Designer, an embedded system reporting tool, to build user-defined reports with data compiled from across the entire continuum of care.

**Monitor Risk and Quality Outcomes**

Bedside Verification can also be used with MEDITECH's Risk Management, a component of Quality and Surveillance solution, for expedited, streamlined incident capture and reporting. After a patient has been positively identified by scanning the patient wristband, the patient and patient-related incident report are pre-selected for the clinician to proceed with documenting the incident report. Real-time patient data captured throughout the enterprise will flow into the incident report, saving users valuable data entry time. Upon completion, the incident report will be immediately available for review by your organization's quality or risk manager, facilitating further investigation and meaningful quality analysis.

**Experience the Benefits of Integration**

The full integration of MEDITECH's Order Management, Patient Care and Patient Safety, and Pharmacy products creates a closed-loop medication management system. Likewise, the Blood Bank product and Patient Care and Patient Safety are fully integrated for transfusion management. The system updates all administration and transfusion data in real time, allowing Bedside Verification to accurately match patients with their medications and blood products. As the final step for ensuring the safe delivery of medications and blood products, Bedside Verification significantly reduces preventable errors that can ultimately lead to increased organizational penalties and costs due to adverse events, hospital-acquired infections, and longer lengths of stay.

For more information, contact a MEDITECH Marketing Consultant.