

Bedside Scanning of Blood Products

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Introduction/Problem

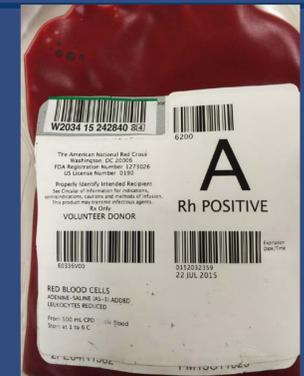
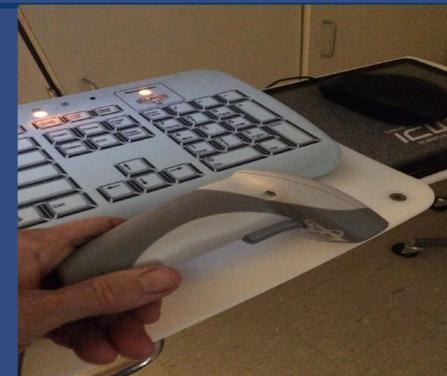
Blood products, once issued from the Blood Bank, must be signed out in CCC to verify receipt within 30 minutes of issue. This sign-out process confirms that the patient has consented to transfusion, the blood product has been received and that the appropriate product has been issued. In current practice, the transfusionist confirms patient consent, IV access, that there are orders to transfuse and that the patient is afebrile. The product is then requested from the Blood Bank and issued to the desired location. Once received, the nurse manually enters the patient medical record number from the patient's chart and the unique 13 digit blood identifier into CCC. This process must be performed within 30 minutes of product receipt to assure that the product has been in control. If the check is not performed within 30 minutes of issue the product must be returned to the Blood Bank and discarded.

The Interventions

- Changes to the electronic verification program in CCC permitted scanning of the patient's MRN and blood product at the bedside
- Successful validation of bedside scanning on selected nursing stations with overwhelmingly positive feedback from the nursing stations involved
- Extensive validation of patient barcode and blood products in both the live and test system was successfully achieved
- Nursing education provided
- Program went live November 21, 2017

Aim/Goal

Electronic Medication Administration Record (eMar) allows providers the ability to scan medication through a computer workstation hardwired at the patient's bedside. By utilizing the existing eMAR infrastructure (bedside computer and scanner) and modifying existing blood bank programming we pondered whether it was possible to scan a patient's wristband and blood product at the bedside providing positive patient and blood product identification in a timely fashion. The aim was for streamlined and safe bedside verification. An added benefit would be that if the transfusionist no longer performed the verification at the nursing station, but at the patient's bedside (where there are less distractions), perhaps there would be a reduction in wasted units.



Results/Progress to Date

For nursing stations with bedside scanners this process provides electronic identification of the patient and the product documenting that the **Right** patient has been issued the **Right** product within the **Right** time satisfying three of the "**Rights** of Medication Administration."

Since CCC sign-out is performed directly at the bedside, rather than at the nursing station, there potentially will be a reduction in product waste. We will monitor waste to see if there has been any improvement.

The Team

- M Mohammed MS(ASCP)SBB Laboratory Medicine, Blood Bank Manager
- B Donovan RN MSN Nurse Specialist
- T Bourie RN Informatics
- T Graham Laboratory Medicine, Applications Systems Analyst