Implementation of Barcode Scanning To Promote Safe Administration of Expressed Breast Milk (EBM)

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Background
American Academy of Pediatrics promotes maternal breast feeding for the first 12 months of life
- Treat Expressed Breast Milk as a medication
- Potential sentinel event related to blood born pathogens
- Errors are emotionally & psychologically devastating to families

Problem
Actual and near miss events of EBM misadministration
- Inconsistent verification of feedings at bedside
- Multiple Points for errors
  o Maternal/Staff handling
  o Storage
  o Preparation
  o Feeding

Goals
Eliminate misadministration events
- Standardized Process for EBM verification
- Leverage technology as a solution to eliminate human error during verification
- Reduce errors to 0%

Implications for Practice
- Leveraging technology to eliminate the need for two RN verification
- Medication administration workflow utilized to design EBM scanning workflow
- Increased nurse satisfaction, and confidence with administering correct EBM to correct patient
- Enhanced tracking of EBM administrations, near miss, and events

Lessons Learned
- Evaluate label configuration
- Need for hand held devices
- Consistent scanner programming
- Evaluate points of highest risk for misadministration to reduce nursing workload with multiple scans to assure compliance
- Maternal confidence in label-maternal name and DOB as additional verifier

Implementation
Stakeholders involved in workflow design and roll out
- Phased roll out by region
- Recruit super users
- Training
  o Tip sheets
  o Hands on training
  o Audio visual

Colorado Springs, Metro Denver & Northern Colorado NICU Beds: 150  Births: year 11,500 Pediatric Beds: 55