

Patient Safety Improvement Initiative

Project Name: Computerize Assisted Documentation of Blood Product Administration

Time Frame: January 2011 - ongoing

Description: Blood product administration is documented using manual forms. The various steps that assure accurate transfusion rely on manual attention to detail and are prone to errors of omission and commission.

Goals and Measures: Our goals are to eliminate transfusion related documentation errors; convert transfusion-related documentation from paper to part of Copley's Electronic Health Record and to reduce the potential for error-related hemolytic transfusion events.

Interventions: Computer Programs and Systems, Inc (CPSI) began developing a Blood Administration module in 2008. Copley Hospital participated in its development as a beta site, purchasing the module and assisting with development. A series of proprietary e-forms were customized for Copley use by CPSI. Copley's Information Technology staff and Laboratory Services Director worked to develop an electronic flow chart for Blood Administration. Procedures for both computer and manual administration were developed with Copley's Nurse Educator, reviewed by a multidisciplinary team compiled of nursing and lab personnel to ensure clinical accuracy and appropriateness and approved by our Quality Management Team and Chief Nursing Officer before adoption. In 2010 the lab began using the e-forms for the crossmatch worksheet and the unit tags.

In 2011, the hospital will purchase the appropriate equipment that would allow for digital signatures. Nurse training will then follow so that we can implement the use of electronic nursing e-forms and flow charts with the necessary digital signature.

Outcomes: Initiative is still underway. We anticipate 100% conversion of Blood Product Administration documentation from paper to part of Copley's Electronic Health Record by the end of 2011. This will eliminate transfusion related documentation errors and reduce the potential for error-related blood transfusion events.