8-21-2017

Elective Surgery Type & Screen

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Recommended Citation
NorDx Blood Bank Staff; Pelletier, Haley; Nayak, Suneela; Tyzik, Stephen; and Hanselman, Ruth, "Elective Surgery Type & Screen" (2017). Maine Medical Center. 3.
http://knowledgeconnection.mainehealth.org/mmc/3

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### Problem/Impact Statement:

100% of scheduled elective surgery patients requiring transfusion will have a type and screen specimen 24 hours prior to surgery.

### Scope:

**In scope:** Maine Medical Center (MMC) elective surgeries  
**Out of scope:** Elective surgeries other than MMC

### Goal/Objective:

**Overall Goal:** The goal is to prevent any delays in providing compatible blood products to scheduled surgical patients.

### Baseline Metrics/Current State:

- Lack of physician awareness.  
- Lack of supporting systems, identifying which cases are at high risk.  
- Fragmentation of patient care.

### Root Cause Analysis:

#### Extended Specimen Program

- Type and Screen  
  - Good for 3 days once completed  
  - Should be completed at least 24 hours prior to elective surgery

#### Extended Specimen Program

- Type and Screen  
  - Good for up to 2 months if patient criteria met  
  - Should be completed at least 24 hours prior to elective surgery

Main causes for delay in the availability of compatible blood for OR cases:

- No current Type & Screen  
- Patient has a positive antibody screen  
- Lack of pre-screened antigen negative RBCs

### Countermeasures

<table>
<thead>
<tr>
<th>Action</th>
<th>Owner</th>
<th>Due Date</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data collection of elective surgical cases without a type &amp; screen which required a transfusion or had a positive antibody screen.</td>
<td>Blood Bank Staff</td>
<td>Apr. 2016</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Interdisciplinary meetings</td>
<td>Blood Bank Staff</td>
<td>May. 2016</td>
<td>Completed</td>
</tr>
<tr>
<td>ESP outreach to additional providers</td>
<td>Blood Bank Staff</td>
<td>May. 2016</td>
<td>Completed</td>
</tr>
<tr>
<td>IT: electronic format for ESP EPIC ticket initiated</td>
<td>Blood Bank Staff</td>
<td>Sept. 2016</td>
<td>Completed</td>
</tr>
<tr>
<td>Extension of ESP 1-2 months</td>
<td>Blood Bank Staff</td>
<td>Jan. 2017</td>
<td>Pending</td>
</tr>
<tr>
<td>Continuing dialogue with all disciplines</td>
<td>Blood Bank Staff</td>
<td>For the life of the project</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Education of new ASU and NorDx staff</td>
<td>Blood Bank Staff</td>
<td>For the life of the project</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Master surgical list requiring a type &amp; screen compiled by surgery, anesthesia, OB, BB, &amp; PREP</td>
<td>Inter-professional teams</td>
<td>Jun. 2017</td>
<td>Completed</td>
</tr>
</tbody>
</table>

### Outcomes

**No Type and Screen Completed 24 Hours Prior to OR Elective Procedure**

### Next Steps

- Continue to offer the ESP to additional providers  
- Awareness of master surgical list associated with Blood Bank ordering practice criteria.  
- Develop a process whereby the master surgical list of procedures requiring a type & screen is incorporated into the PREP workflow such that these patients do not end up in surgery without a type & screen if indicated.  
- Complete EPIC ESP electronic documentation

### Team Members:

NorDx Blood Bank Staff, Bramhall Campus, Suneela Nayak, Stephen Tyzik, Ruth Hanselman

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**Project:** Blood Bank - Elective Surgery Type & Screen  
**Last Updated:** 8/21/2017  
**Executive Sponsor:** Mark Parker  
**Facilitator:** Haley Pelletier