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### Strategic Alignment

**People:** Lab staff satisfaction increases due to decrease in duplicate and unnecessary tests  
**Quality:** Reduces waste by removing unnecessary tests  
**Finance:** Increases profit margin of DRG set payment patients

### Specific Measures

- The number of CBC and H&H tests ordered
- The variation in the tests ordered within the first 24 hours
- The number of duplicate tests

### Focus Area

**Aim Statement:** Reducing unnecessary blood draws on patients

**Plan**

- Complete Blood Count (CBC)
  - UH performs 8,000 to 10,000 CBC and H&H lab tests each month.
  - **GI Bleed Patients**
    - Patients with GI bleeding diagnosis will almost always have a CBC order.
    - Currently, there are no studies on CBC frequency in GI bleeding. It is largely based on clinical judgment.
    - Some patients receive up to 7 tests in their first 24 hours.
  - There are only recommendations on not performing repetitive tests like Choosing Wisely. However, a repetitive test is not defined.

**PowerChart**

- Consolidate all CBC orders
- Replace PowerPlans with disease specific sub phases
- Remove auto frequency check series for CBC less than Q8 and limited to 6 instances
- Map related results for when a test is being ordered
- Improve the duplicate order alerts for CBC and H&H
- Terminate recurring orders after 6 instances

**Education**

- Development of education with CED
  - Inform providers changes to tests
  - Place educational fliers regarding CBC usage in key patient care areas
  - Keep whether or not a test is necessary on providers mind when ordering tests

**Tiger Institute**

- Have the IT changes made a difference?
  - How many times was the duplicate order alert activated?
  - How often do physicians ignore the duplicate order alert?
  - Who is bypassing the duplicate order alert most often?

### Sample Population

#### Sample Population

<table>
<thead>
<tr>
<th>Scope Procedure</th>
<th>No Scope Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>n=160</td>
<td>n=128</td>
</tr>
</tbody>
</table>

#### Variation: Orders with scope procedure in first 24hrs

#### Variation: Orders without scope procedure in first 24hrs

#### Duplicate Tests

<table>
<thead>
<tr>
<th>Month</th>
<th>Duplicate Order</th>
<th>Economic Cost of Duplicate CBC</th>
</tr>
</thead>
<tbody>
<tr>
<td>June/July</td>
<td>10</td>
<td>$11</td>
</tr>
<tr>
<td>August</td>
<td>15</td>
<td>$18</td>
</tr>
<tr>
<td>September</td>
<td>20</td>
<td>$26</td>
</tr>
<tr>
<td>October</td>
<td>25</td>
<td>$34</td>
</tr>
<tr>
<td>November</td>
<td>30</td>
<td>$42</td>
</tr>
<tr>
<td>December</td>
<td>35</td>
<td>$50</td>
</tr>
</tbody>
</table>

#### Graphics / Data

- **Variation:** Orders with scope procedure in first 24hrs
- **Variation:** Orders without scope procedure in first 24hrs
- **Duplicate Tests**
- **Education Flyer**