Problem: Adult patients who develop sepsis while hospitalized at OHSU are 2.5 times more likely to die than expected (Vizient comparators)

In scope: hospitalized adults at OHSU
Out of scope: POA sepsis, ED, pediatric units

Background (why we are working on this): In 2018, the Mortality A3 (working to achieve Vizient top 10) identified that patients who develop sepsis while hospitalized have worse outcomes than our comparators. This O/E ratio has increased year over year since 2016.

Current state:

Outcome metric/Specific Aim:
Mortality O/E for OHSU will be 2.4 by July 2020

Problem Analysis (Root Causes):

1. Delays: We don’t quickly recognize early signs of sepsis in hospitalized patients
   1. Anchoring prevents consideration of new condition
   2. Lack of source control
   3. Variation in when we call RRT or provider team
   4. Lack of way to identify “soft” constellations of symptoms which may indicate sepsis.
   5. Sepsis wasn’t top of mind.

2. We lack a standard response to patients with possible sepsis
   1. Variation in nursing roles/actions
   2. Variation in physician roles/actions

Future state visual/drawing:

At least 2 tests of Change:

<table>
<thead>
<tr>
<th>Root Cause</th>
<th>Idea/Intervention</th>
<th>Hypothesis about impact on outcome metric</th>
<th>Dates of experiment</th>
<th>What happened? What did you learn?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2</td>
<td>Quality Medical Directors review all non-POA sepsis cases</td>
<td>Identification of specific areas of vulnerability in recognition and treatment will drive new standards</td>
<td>July 2018-present</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Epic BPA alerts teams to possible sepsis</td>
<td>Earlier recognition will result in earlier action and eventually will reduce mortality</td>
<td>12/2018</td>
<td></td>
</tr>
<tr>
<td>1,2</td>
<td>Sepsis tile (GE)</td>
<td>Improved SEP-1 Bundle Compliance due to real time monitoring and reporting of the system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>POC Lactate Testing</td>
<td>Switching to POC lactate testing to reduce time to action</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Process metric target (from X to Y by when):
Achieve > 88% SEP-1 Bundle Compliance by end of FY20.
Increase BPA Alert response by staff to 90% by 12/2019.

Sustainment:
This project has leveraged real-time decision support in the EHR to optimize sustainability.
Run Charts
Display one outcome metric:

Display one process metric: