Infection Control Metrics

- Hand Hygiene
- Central-Line Associated Bloodstream Infections
  - Whole-House
  - Intensive Care Unit
- Catheter Associated Urinary Tract Infections
  - Intensive Care Unit
  - Surgical Oncology
- Surgical Site Infections
Hand Hygiene Compliance

1Q 2022, 95%
Whole-House
Central-Line Associated Bloodstream Infection (CLABSI) Rate

Whole-house HA-CLABSI Rate
(# HA-CLABSI/Inpatient Catheter Days)

Year
- 2Q2019
- 3Q2019
- 4Q2019
- 1Q2020
- 2Q2020
- 3Q2020
- 4Q2020
- 1Q2021
- 2Q2021
- 3Q2021
- 4Q2021
- 1Q2022

Months
- Whole-house
ICU Central-Line Associated Bloodstream Infection (CLABSI) Rate

2013 CDC National Healthcare Safety Network (NHSN) Benchmark: Critical Care Units, Medical/Surgical - major teaching mean 1.1 (through 2021 Q3)
ICU Catheter-Associated Urinary Tract Infections (CAUTI) Rate

2013 CDC National Healthcare Safety Network (NHSN) Benchmark: Critical Care Units, Medical/Surgical -major teaching mean 2.7 (through 2021 Q3)
Surgical Oncology Catheter-Associated Urinary Tract Infections (CAUTI) Rate

2013 CDC National Healthcare Safety Network (NHSN) Benchmark: Inpatient Wards, Medical/Surgical mean 1.3 (through 2021 Q3)
Surgical Site Infections

2020-2021 Clinical Center Average 2.19
Nursing Quality Metrics

- Falls
- Pressure Injury
- Medication Administration Barcoding
Pressure Injury Prevalence

NDNQI Benchmark for Total Pressure Injury Rate only
Emergency Response

• Code Blue and Rapid Response
  • Types of Patients
  • Type of Event
  • Patient Disposition
Code Blue Response: Types of “Patients”

<table>
<thead>
<tr>
<th></th>
<th>CY21 Q2</th>
<th>CY21 Q3</th>
<th>CY21 Q4</th>
<th>CY22 Q1</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpt</td>
<td>32</td>
<td>36</td>
<td>15</td>
<td>8</td>
<td>91</td>
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<tr>
<td>Outpt</td>
<td>14</td>
<td>14</td>
<td>10</td>
<td>16</td>
<td>54</td>
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<tr>
<td>Employee</td>
<td>12</td>
<td>9</td>
<td>11</td>
<td>7</td>
<td>39</td>
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<tr>
<td>Visitor</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>9</td>
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<tr>
<td>Incorrect Calls</td>
<td>0</td>
<td>0</td>
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</table>

Number
Code Blue Response: Type of Event

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>CY21 Q2</th>
<th>CY21 Q3</th>
<th>CY21 Q4</th>
<th>CY22 Q1</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>Brain Code</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>0</td>
<td>6</td>
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<tr>
<td>Arrest</td>
<td>11</td>
<td>14</td>
<td>4</td>
<td>2</td>
<td>31</td>
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<tr>
<td>Acute Emergency</td>
<td>18</td>
<td>8</td>
<td>12</td>
<td>6</td>
<td>44</td>
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<tr>
<td>Stable Event</td>
<td>28</td>
<td>35</td>
<td>23</td>
<td>25</td>
<td>111</td>
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</table>

Number of events by quarter for 2021 (Q2-Q4) and 2022 (Q1) for different types of events.
# Code Blue Response: Patient Disposition

<table>
<thead>
<tr>
<th></th>
<th>CY21 Q2</th>
<th>CY21 Q3</th>
<th>CY21 Q4</th>
<th>CY22 Q1</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfer to ICU</td>
<td>16</td>
<td>13</td>
<td>10</td>
<td>5</td>
<td>44</td>
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<tr>
<td>Transfer to OSH</td>
<td>11</td>
<td>10</td>
<td>14</td>
<td>7</td>
<td>42</td>
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<tr>
<td>Remained on Unit</td>
<td>17</td>
<td>27</td>
<td>11</td>
<td>15</td>
<td>70</td>
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<tr>
<td>Expired</td>
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<td>4</td>
<td>2</td>
<td>1</td>
<td>11</td>
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<tr>
<td>Released</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Other</td>
<td>10</td>
<td>5</td>
<td>4</td>
<td>4</td>
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</tbody>
</table>

![Chart showing patient dispositions for various quarters and totals.](chart.png)
# Rapid Response Team: Patient Disposition

<table>
<thead>
<tr>
<th></th>
<th>CY21 Q2</th>
<th>CY21 Q3</th>
<th>CY21 Q4</th>
<th>CY22 Q1</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICU</td>
<td>2</td>
<td>7</td>
<td>1</td>
<td>10</td>
<td>20</td>
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<tr>
<td>Unit/Other</td>
<td>9</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>19</td>
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<tr>
<td>Remained on Unit</td>
<td>14</td>
<td>36</td>
<td>13</td>
<td>8</td>
<td>71</td>
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Blood and Blood Product Use

• Crossmatch to Transfusion (C:T) Ratio
• Transfusion Reaction by Class
• Unacceptable Blood Bank Specimens
The NIH CC goal is to have a C:T ratio of 2.0 or less. Monitoring this metric ensures that blood is not held unused in reserve when it could be available for another patient.
Transfusion Reactions by Class

Percent of Transfusions

- Anaphylactic
- Other
- Febrile, Nonhemolytic
- Hemolytic, Septic, Anaphylactoid, and TRALI
Unacceptable Blood Bank Specimens

% Specimens with Collection Problems

CC Threshold

Jan 2022

Apr May Jun Jul Aug Sept Oct Nov Dec

Percent unacceptable specimens

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
Clinical Documentation

- Medical Record Completeness
  - Delinquent Records
  - “Agent for” Countersignature Adherence
  - Unacceptable Abbreviation Use
- Accuracy of Coding
Delinquent Records
(>30 days post discharge)
"Agent for" Orders Countersignature Compliance

Fiscal Year

% of Compliance

CC Goal

% verbal orders signed in 72 hours
"Do Not Use" Abbreviation Adherence

![Graph showing compliance with abbreviation use over fiscal years CY2020-Q1 to CY2022 Q1. The graph displays a line graph with data points indicating the percentage of appropriate use of abbreviations. The data points are close to 100% compliance for each quarter, with slight variations. The x-axis represents the fiscal years and quarters, while the y-axis represents the percentage of appropriate use of abbreviations. The graph includes a CC Goal line that remains at 100%.](image-url)
Employee Safety

• Occupational Injury and Illness compared with U.S. Hospitals
Recordable Occupational Injuries and Illnesses Among CC Employees

<table>
<thead>
<tr>
<th></th>
<th>CY21 Q1</th>
<th>CY21 Q2</th>
<th>CY21 Q3</th>
<th>CY21 Q4</th>
<th>CY22 Q1</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRC</td>
<td></td>
<td></td>
<td></td>
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</tr>
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<td>ORC</td>
<td></td>
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<tr>
<td>DJTR</td>
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<tr>
<td>DAFW</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DART</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

TRC = Total Recordable cases
ORC = Other recordable cases
DJTR = Days of job transfer or restriction
DAFW = Days away from work
DART = Days away, restricted, or transferred (DJTR+DAFW)
Types of Occupational Injuries, Jan-Mar
n=16

- Mus/Skel: 50%
- Wounds: 19%
- Ergonomic: 13%
- Splash: 6%
- Other: 12%