HOSCAP HHS Reporting

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May 5, 2020
Agenda

• Improving COVID-related reporting in HOSCAP –
  – Overview of recent changes to COVID, PPE, and ventilator fields
• HHS Reporting requirements
• Next Steps
• Q&A
IMPROVING COVID-RELATED REPORTING IN HOSCAP
HOSCAP Background

- The Oregon Hospital Capacity System (HOSCAP)
  - Web based dashboard where all Oregon and SW Washington State hospitals can share bed availability, capacity information
  - No patient information or data are stored on HOSCAP
  - Subject to disclosure under Oregon’s Public Records Act.

- HOSCAP users
  - Hospitals, First responders, EMS/AeroMedical providers, 911/PSAPs, Local/State/Federal partners

- HOSCAP Uses
  - Patient surge or disruption to health care system – HOSCAP is used to make decisions and for planning
  - Mass casualty Incidents (MCIs), disease/outbreak information including H1N1, communication disruptions
HOSCAP COVID Reporting Matters

Reporting on current hospital capacity and personal protective equipment

• Informs state planners and epidemiologists that are coordinating the state response

• Monitoring health care system capacity and utilization as Oregon looks to make progress in reopening

• Evaluating trends in COVID hospitalizations; monitoring hot spots and COVID-related hospital utilization

• Public reporting and transparency
HOSCAP Improvements for COVID reporting

<table>
<thead>
<tr>
<th>March</th>
<th>COVID HOSCAP Reporting Begins</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 4</td>
<td>COVID Hospitalized Patients</td>
</tr>
<tr>
<td>April 11</td>
<td>PPE and Ventilators</td>
</tr>
<tr>
<td>May 4</td>
<td>HHS Reporting and Refinements</td>
</tr>
<tr>
<td>TBD</td>
<td>HHS In-house Lab Reporting via HOSCAP</td>
</tr>
</tbody>
</table>

Thanks to your hard work! We’ve seen major improvements in quality and timeliness of HOSCAP reported data.
HOSCAP Reporting Improvements - Frequency

- Hospitals that updated a field in the past day
- Hospitals that updated a field in the past week
## HOSCAP Data – Daily Reports

<table>
<thead>
<tr>
<th>Overall Capacity</th>
<th>Available</th>
<th>Total</th>
<th>COVID-19 Details</th>
<th>Patients with Suspected or Confirmed COVID-19</th>
<th>Only Patients with Confirmed COVID-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult ICU beds</td>
<td>259</td>
<td>827</td>
<td>Current hospitalized patients</td>
<td>224</td>
<td>89</td>
</tr>
<tr>
<td>Adult non-ICU beds</td>
<td>1,963</td>
<td>7,490</td>
<td>Current patients in ICU Beds</td>
<td>59</td>
<td>38</td>
</tr>
<tr>
<td>Pediatric NICU/PICU beds</td>
<td>55</td>
<td>292</td>
<td>Current patients on ventilators</td>
<td>23</td>
<td>19</td>
</tr>
<tr>
<td>Pediatric non-ICU beds</td>
<td>162</td>
<td>349</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventilators</td>
<td>779</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COVID field refinements

01 Current COVID Patients
– Number of people hospitalized with suspected or confirmed COVID-19 based on the current hospital census.
– Do not include patients being tested for COVID-19 (e.g., for rule out purposes) that are otherwise not suspected to have COVID-19.

02 COVID-positive Patients

03 COVID Patients in ICU Beds

04 COVID-positive Patients in ICU Bed

05 COVID Patients on Vents

06 COVID-positive Patients on Vents
HOSCAP Bed Field Refinements

• Available Beds:
  – Number of staffed beds that are unoccupied and available, based on current census at the time of reporting.

• Staffed Facility Beds:
  – Number of beds the facility has appropriate staff and equipment to support as of the time of reporting.
HHS REPORTING VIA HOSCAP
National Healthcare Safety Network (NHSN)

- NHSN is the nation’s most widely used healthcare-associated infection tracking system.
- 2020: NHSN COVID-19 module for Patient Impact and Hospital Capacity.
  - Daily counts of patients with suspected or confirmed COVID-19 diagnoses and current use and availability of hospital beds, ICU beds, and ventilators.
- HHS will use data for epidemiological surveillance and public health decision making in response to COVID-19.
  - May be used by HHS to evaluate any requests by the State of Oregon for federal assistance.
Facilities Reporting to NHSN COVID-19 Module, Oregon

Participation by County, percent facilities (4/25 to 4/27)
## Facilities Reporting to NHSN COVID-19 Module, Oregon

Number and response rate by type of facility, NHSN

<table>
<thead>
<tr>
<th>Hospital type</th>
<th>Reporting</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>General acute care</td>
<td>19</td>
<td>35</td>
<td>54.3</td>
</tr>
<tr>
<td>Critical access</td>
<td>9</td>
<td>25</td>
<td>36.0</td>
</tr>
<tr>
<td>Children’s</td>
<td>0</td>
<td>1</td>
<td>0.0</td>
</tr>
<tr>
<td>Long-term acute care</td>
<td>0</td>
<td>1</td>
<td>0.0</td>
</tr>
<tr>
<td>Other*</td>
<td>0</td>
<td>2</td>
<td>0.0</td>
</tr>
</tbody>
</table>

* includes psych, oncology, rehab, women/children, VA, military.

Data as of 04/28/2020 5:30 am; includes all facilities reporting between 4/25 to 4/27
HOSCAP Reporting to HHS

• Four hospital volunteers tested HOSCAP HHS Reporting
  – Blue Mountain – Rebekah Rand
  – Legacy – Kitty Rogers
  – Providence – Helene Anderson
  – St. Charles – Andrea Kidder and Amy Leath

• Feedback included:
  – Generally straightforward, 3 fields were confusing
    • OHA sought HHS clarification
  – Deaths may include a lag
  – Hospital onset may be challenging
## HHS Reporting Event

### Overview
- **Oregon HOSCAP Terms and Conditions - Please Review**
- **COVID19 - Oregon Hospital Status Tracker**
- **HHS COVID19 Reporting**

### Table

<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>St HOSCAP Training Memorial</td>
<td>38000</td>
<td>12,345</td>
<td>400</td>
<td>200</td>
<td>13</td>
<td>10</td>
<td>8</td>
<td>50</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>15 or more days</td>
</tr>
<tr>
<td>Summary</td>
<td>N/A</td>
<td>N/A</td>
<td>400</td>
<td>200</td>
<td>13</td>
<td>10</td>
<td>8</td>
<td>50</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>
# HHS Reporting: Hospital View

<table>
<thead>
<tr>
<th>TEST HHS: Patient Impact &amp; Hosp Capacity</th>
<th>Status</th>
<th>Comment</th>
<th>Last Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>31b HHS: CMS Number</td>
<td>38000</td>
<td></td>
<td>30 Apr 2020 13:28</td>
</tr>
<tr>
<td>31c HHS: NHSN Org ID</td>
<td>12,345</td>
<td></td>
<td>30 Apr 2020 13:27</td>
</tr>
<tr>
<td>33 HHS: All hospital beds</td>
<td>400</td>
<td></td>
<td>01 May 2020 14:50</td>
</tr>
<tr>
<td>34 HHS: Hospital Inpatient Beds</td>
<td>200</td>
<td></td>
<td>01 May 2020 14:50</td>
</tr>
<tr>
<td>35 HHS: Hospital Inpatient Bed Occupancy</td>
<td>13</td>
<td></td>
<td>30 Apr 2020 16:55</td>
</tr>
<tr>
<td>36 HHS: ICU Beds</td>
<td>10</td>
<td></td>
<td>30 Apr 2020 13:30</td>
</tr>
<tr>
<td>37 HHS: ICU Bed Occupancy</td>
<td>8</td>
<td></td>
<td>01 May 2020 08:48</td>
</tr>
<tr>
<td>38 HHS: Mechanical Ventilators</td>
<td>50</td>
<td></td>
<td>01 May 2020 08:48</td>
</tr>
<tr>
<td>39 HHS: Mechanical Ventilators in Use</td>
<td>7</td>
<td></td>
<td>30 Apr 2020 13:31</td>
</tr>
<tr>
<td>42 HHS: Hospital Onset</td>
<td>0</td>
<td></td>
<td>30 Apr 2020 16:55</td>
</tr>
<tr>
<td>43 HHS: ED/Overflow</td>
<td>0</td>
<td></td>
<td>30 Apr 2020 13:31</td>
</tr>
<tr>
<td>44 HHS: ED/Overflow and Ventilated</td>
<td>0</td>
<td></td>
<td>30 Apr 2020 13:42</td>
</tr>
<tr>
<td>45 HHS: Deaths</td>
<td>0</td>
<td></td>
<td>01 May 2020 08:48</td>
</tr>
<tr>
<td>46 HHS: On-hand Supply of N95 Masks</td>
<td>15 or more days</td>
<td></td>
<td>01 May 2020 14:50</td>
</tr>
</tbody>
</table>
HOSCAP Fields

Existing HOSCAP Fields that meet HHS Reporting

- Hospital Name, State, County, Zip Code
- CMS Certification Number (CCN)
- 01 Current COVID Patients (confirmed or suspected)
- 05 COVID Patients on Vents (confirmed or suspected)

One-time entry:

- NHSN Organizational Identifier – unique per facility
- If your hospital does not have an NHSN ID, please go to https://www.cdc.gov/nhsn/enrollment/index.html
HOSCAP Fields – New: Bed Capacity

• 33 HHS All Hospital Beds
  – HHS Definition: "Total number of all staffed inpatient and outpatient beds in your hospital, including all overflow and surge/expansion beds used for inpatient and for outpatients (includes all ICU beds)"
  – Per HHS, include all available beds in your facility regardless of what kind of acuity they can hold.
HOSCAP Fields – New: Bed Capacity

- **34 HHS Hospital Inpatient Beds**
  - HHS Definition: "Total number of staffed inpatient beds in your hospital including all overflow and surge/expansion beds used for inpatients (includes all ICU beds)"

- **35 HHS Hospital Inpatient Bed Occupancy**
  - HHS Definition: "Total number of staffed inpatient beds that are occupied"

- **36 HHS ICU Beds**
  - HHS Definition: "Total number of staffed inpatient ICU beds"

- **37 HHS ICU Bed Occupancy**
  - HHS Definition: "Total number of staffed inpatient ICU beds that are occupied"
HOSCAP Fields – New: Ventilators

• 38 HHS Mechanical Ventilators
  – HHS Definition: "Total number of ventilators available"
  – CDC instructions: "Enter the total number (in use and not in use) of mechanical ventilators, including
    • anesthesia machines and portable/transport ventilators available in the facility. This includes those.
    • Include BiPAP machines if the hospital uses BiPAP to deliver positive pressure ventilation via artificial airways."

• 39 HHS Mechanical Ventilators in Use
  – HHS Definition: "Total number of ventilators in use at facility."
HOSCAP Fields – New: Hospital Onset

• 42 HHS Hospital Onset
  – HHS Definition: "Patients currently hospitalized in an inpatient bed with onset of suspected or confirmed COVID-19 fourteen or more days after hospital admission due to a condition other than COVID-19"
  – Per HHS, this captures hospital-acquired COVID.
HOSCAP Fields – New: ED/Overflow

• 43 HHS ED/Overflow
  – HHS Definition: "Patients with suspected or confirmed COVID-19 who currently are in the Emergency Department (ED) or any overflow location awaiting an inpatient bed"

• 44 HHS ED/Overflow and Ventilated
  – HHS Definition: "Patients with suspected or confirmed COVID-19 who currently are in the Emergency Department (ED) or any overflow location awaiting an inpatient bed and on a mechanical ventilator"
HOSCAP Fields – New: Deaths

• 45 HHS Deaths
  – HHS Definition: "Number of patients with suspected or confirmed COVID-19 who died in the hospital, ED, or any overflow location on the date for which you are reporting."
  – CDC Definition: "Please enter the count of deaths newly occurred, at the time the data is collected instead of the cumulated number of deaths."
HOSCAP Fields – New: PPE

• 46 HHS On-hand supply of N95 masks
  – HHS Definition: "Days of N95 masks on-hand."
  – Please select from the following categories:
    • Zero days
    • 1-3 days
    • 4-14 days
    • 15 or more days
Hospital In-house COVID Lab Testing

• At this time, HOSCAP will not support in-house lab reporting to HHS
• HHS request is for lab capacity/volume information
• Reporting to HHS doesn’t replace existing requirements for hospital labs to report to OHA, or for OHA to report COVID-19 result data to CDC.
• Interested in HOSCAP for in-house lab reporting:
  – Several large hospitals prefer not to use HOSCAP for this reporting
  – A few hospitals would like HOSCAP to support this
  – Let OAHHS or OHA know if you’re interested
HHS reporting for hospital in-house labs

Ordered/Resulted COVID Tests:
• New Test Ordered
• Cumulative Tests Ordered
• New Test Results
• Cumulative Test Performed

Total Positive/Negative COVID Tests
• New Positive Tests
• Cumulative Positive Tests
• New Negative Tests
• Cumulative Negative Tests
NEXT STEPS
Logistics of reporting

- Go live week of 5/4/2020 (as hospitals sign agreements)
  - File sent automatically to HHS at 1:45 daily (PST)
- OHA will receive a report from HHS:
  - Confirming acceptance and any facilities rejected from HHS
- OHA will work with RECs to follow up with hospitals:
  - HHS rejected files
  - Questionable data (e.g., logical inconsistencies)

- Hospitals can decide to rescind HOSCAP reporting and report directly to HHS – notify HOSCAP Team: OrESF8.HAN@dhsoha.state.or.us
Hospital Actions Needed

• Sign and return the Hospital Administrator form
  – By submitting this data on behalf of hospitals, OHA takes responsibility for transmitting hospital HHS reporting
  – Hospitals remain responsible for data accuracy and for submitting daily updates

• After receiving the form, the HOSCAP team will activate the HHS fields for the affiliated hospital(s)

• Daily reporting to HHS fields must be completed by noon.
  – NHSN organization identification (ID) number required per facility
  – If a hospital fails to submit daily updates to HOSCAP, it would need to submit the required information to the NHSN module
QUESTIONS?
For More Information

- HHS/CDC instructions for required data fields: https://www.cdc.gov/nhsn/pdfs/covid19/57.130-toi-508.pdf
- Oregon’s HOSCAP Webpage: https://www.oregon.gov/oha/PH/Preparedness/Partners/HealthAlertNetwork/Pages/index.aspx
- HOSCAP Team: OrESF8.HAN@dhsoha.state.or.us