HAI Data Analysis and Presentation Standardization (DAPS) Toolkit

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Outline

- Toolkit recommendations
- Components of the toolkit and how to use it
- CSTE toolkit website
- Share your feedback
Background and Overarching Recommendation

- Brief background on toolkit and DAPS workgroup
- Two HAI reports
  - Consumer-friendly report:
    - Plain language, high-level summary, patient education
  - Healthcare professional/technical report:
    - Statistics, detailed methodology section
- Past research suggests that consumers are not using HAI data when making healthcare decisions
- Importance of engaging and empowering consumers
- Data for action
Scope of the Toolkit

- Nationally reportable HAIs
  - CLABSI
  - CAUTI
  - SSIs
  - MRSA bacteremia LabID events
  - *C. difficile* LabID events
  - Healthcare worker flu vaccination summary data

- Best practices for analysis and display of HAI data, to be adopted when possible
- Focus on SIRs, includes considerations for rates
- Evolving document
**DAPS Toolkit Components**

- **Methods**: recommended methods for analyzing HAI data
  - Sample language for inclusion in a report
  - Notes about small hospitals, additional metrics

- **Template Reports**
  - Consumer and technical reports
  - Educational materials and sample appendices
  - Language and format tailored to the audience

- **Other Considerations**
  - Facility report cards
  - Comparing a facility to their peers
  - Summary of workgroup discussion and focus group feedback

- **Sample Data Tables and SAS Code**

- **Dissemination Strategies**

- **Evaluation**
### Consumer data tables

**Sample Report Title: Clostridium difficile Events in [STATE’s] Acute Care Hospitals, [TIME PERIOD]**

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Observed Events</th>
<th>Predicted Events</th>
<th>How Does This Facility Compare to the National Experience?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Memorial</td>
<td>3</td>
<td>6.52</td>
<td>★ Better</td>
</tr>
<tr>
<td>Town Surgical Hospital</td>
<td>5</td>
<td>4.09</td>
<td>= Same</td>
</tr>
<tr>
<td>Vine Medical Center</td>
<td>7</td>
<td>5.11</td>
<td>✖ Worse</td>
</tr>
</tbody>
</table>

*This includes hospital-onset laboratory-identified events*

### Technical data tables

**Sample Report Title: Clostridium difficile Standardized Infection Ratio (SIR) Report, Hospital-Onset Laboratory-Identified Events, Acute Care Hospitals, [STATE], [TIME PERIOD]**

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Patient Days</th>
<th>Number of Events</th>
<th>SIR and 95% Confidence Interval (CI)</th>
<th>SIR Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Observed</td>
<td>Predicted</td>
<td>SIR</td>
</tr>
<tr>
<td>Clean Memorial</td>
<td>6,700</td>
<td>3</td>
<td>6.52</td>
<td>0.46</td>
</tr>
<tr>
<td>Town Surgical Hospital</td>
<td>1,202</td>
<td>5</td>
<td>4.09</td>
<td>1.22</td>
</tr>
<tr>
<td>Vine Medical Center</td>
<td>10,209</td>
<td>7</td>
<td>5.11</td>
<td>1.37</td>
</tr>
</tbody>
</table>
Educational Materials

- Fast Facts: What you need to know about HAIs
- Things to think about when choosing a healthcare facility
- What patients can do to prevent HAIs
- What healthcare providers can do to prevent HAIs (technical report)
Early Feedback and Review

- CSTE HAI Subcommittee
- CSTE Conference Roundtables, 2014 + 2015
- Peer review from states
- Input from DHQP Statistics and Communication Teams
How to Use the Toolkit

- Start the discussion and evaluate your current HAI reports
- Bring ideas to Advisory Group/Committee/Council
- Utilize technical resources within the toolkit
- Adopt new dissemination strategies!
  - Input from National Public Health Information Coalition (NPHIC) and CDC Communications team
- Complete the DAPS toolkit evaluation
- A few early adopters have received very positive feedback on their reports!
Where to Find the Toolkit

- CSTE website: http://www.cste.org/haidaps

HAI DATA ANALYSIS AND STANDARDIZATION TOOLKIT

HAI Data Analysis and Standardization Toolkit
This complete PDF includes all sections of the HAI DAPS Toolkit. For individual sections, see below.

1. Basic Overview and Table of Contents
   High-level summary of the main toolkit recommendation, and explanations for each toolkit section

2. Toolkit Introduction
   History and process of developing the toolkit and summary of relevant literature and prior research

3. Methods for Composing HAI Reports
   Guidance for analyzing HAI data and sample text to include in a methods section of an HAI report

4. Consumer HAI Report Template
   Sample HAI report targeted to healthcare consumers. Includes educational materials, sample language, and incorporation of recommendations.

5. HAI Tools
   Concluding thoughts on Toolkit implementation and future research needed

12. Toolkit Evaluation
   Share your thoughts with us. Any challenges with implementing the toolkit?

14. Position Statement 13-ID-02
   CSTE Position Statement that prompted the creation of the HAI DAPS Toolkit.

Technical Resources
This zip file includes images, SAS code, and sample SAS output that can be utilized when forming your state's HAI report.
Template Reports

- Available in both Word and PDF

3. Methods for Composing HAI Reports
   Guidance for analyzing HAI data and sample text to include in a method.

4. Consumer HAI Report Template
   Sample HAI report targeted to healthcare consumers. Includes education and recommendations.

5. Technical HAI Report Template
   Sample HAI report targeted to a technical and data-savvy audience. Includes recommendations.

6. Additional Analytic and Display Considerations
   Decision-making rationales, additional analytic & display ideas for HAI.

7. Summary Data Table
Toolkit Roll-out Plan

- **Engage with organizations**
  - NPHIC
  - Consumers Union
  - ASTHO, NACCHO, APIC

- **Social media**
  - Newsletters
  - CSTE blog post, Facebook, Twitter
  - phConnect
Thank you to all HAI DAPS workgroup members and contributors!

- Nicole Bryan, CSTE
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Thank you!

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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.