Standardize 4 Safety Webinar Series

1. Background and purpose of the Standardize 4 Safety Initiative – Let’s go back in time
2. A look at current and future S4S medication lists – Where are we now?
3. How the S4S lists are being evaluated – What does the data say?
4. Challenges with implementation of the S4S Initiative – Jumping over the hurdles
5. How to ensure successful implementation of the S4S initiative – Gather your tools
6. Implementation of the S4S Initiative at an [Academic Medical Center] – An adoption story

A look at current and future S4S medication lists – Where are we now?

Mary Ann Kliethermes, Pharm.D.
Director, Medication Safety and Quality ASHP

Sean O’Neill, Pharm.D.
Chief Clinical Officer Bainbridge Health
ASHP and Bainbridge Health Collaboration

- Bainbridge Health
  - A network of infusion pump data from >100 hospitals
  - Utilize infusion data to identify opportunities for standardization of medication concentrations
- Goal of collaboration: to enhance the distribution, adoption, and sustainability of the Standardize 4 Safety Initiative

Learning Objective

- Review the current and future medication lists that will be available through the S4S initiative
S4S – Scope of work

- National Standards will cover:
  - Concentrations and dosing units for intravenous continuous medications for adult patients
  - Concentrations for compounded oral liquid medications
  - Concentrations and dosing units for intravenous continuous medications for pediatric patients
  - Concentrations for PCA and epidural medications
  - Concentrations for intravenous intermittent medications
  - Oral liquid standardized doses

S4S – Timeline

- Complete
  - Continuous infusions
    - Adult
    - Pediatric
  - Oral liquid standardized concentrations

- In Process
  - PCA infusions
  - Epidural infusions
  - Intermittent infusions
    - Adult
    - Pediatric

- Future
  - Oral liquid standardized doses
S4S – Adoption and Feedback

- ASHP S4S Standardized Concentration Interactive Checklist
- Bainbridge Health Infusion Pump Data Network
- Direct communication to ASHP
  - Submit a comment/join the initiative: https://www.ashp.org/pharmacy-practice/standardize-4-safety-initiative/stay-informed
- Join an online community of adopters
  - S4S Connect Community (Non-ASHP members may register as authenticated users): https://connect.ashp.org/communities/community-home?CommunityKey=5518d248-1b6b-4b4a-8a41-ee69f4f0693b

ASHP S4S Standardized Concentration Interactive Checklist
- Released: November 2021

<table>
<thead>
<tr>
<th>Checklist</th>
<th>Completed</th>
<th>In Progress</th>
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<tbody>
<tr>
<td>Adult Continuous Infusion</td>
<td>33</td>
<td>42</td>
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<tr>
<td>Oral Liquid Medications</td>
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<td>25</td>
</tr>
<tr>
<td>Pediatric Continuous Infusion</td>
<td>14</td>
<td>26</td>
</tr>
</tbody>
</table>

- Sample Questions
Sample of Summary Report

- For institution
- For ASHP

Bainbridge Health Infusion Pump Network

111 Inpatient Sites
30,000+ Beds in Network
42,000+ Pumps in Network
656 million Infusions Records Captured
## Bainbridge Health Infusion Pump Network

<table>
<thead>
<tr>
<th>Medication</th>
<th>ASHP Recommended Concentrations</th>
<th>Bainbridge Health Network</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dopamine</td>
<td>800 mcg/mL 1600 mcg/mL 3200 mcg/mL</td>
<td>60% use 800 mcg/mL 90% use 1600 mcg/mL 10% use 3200 mcg/mL *2.8 concentrations per site average **40% of sites only have 2 concentrations</td>
</tr>
<tr>
<td>Fentanyl</td>
<td>10 mcg/mL 50 mcg/mL</td>
<td>10% use 2.5 mcg/mL 30% use 5 mcg/mL 50% use 10 mcg/mL 30% use 20 mcg/mL 90% use 50 mcg/mL *3 concentration per site average **80% of sites have 3 or less concentrations</td>
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</tbody>
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**Questions & Feedback**

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Chief Clinical Officer Bainbridge Health

[www.ashp.org/standardize4safety](http://www.ashp.org/standardize4safety)