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
- Implementation of the S4S Initiative at two Academic Medical Center An adoption story







ASHP and Bainbridge Health Collaboration

- Goal of collaboration: to enhance the distribution, adoption, and sustainability of the Standardize 4 Safety Initiative
- Bainbridge Health unlocks the full value of intravenous medication data from infusion pumps to improve safety, drive standardization, and scale scarce clinical resources

1/13/2022 Press Release

ASHP Innovation Center and Bainbridge Health Collaborate to Improve Patient Safety, Increase Use of Standardized Medication Concentrations in Health Systems







Learning Objective

 Understand the process and overcoming challenges to adopt Standardize 4 Safety concentrations





A Discussion with:

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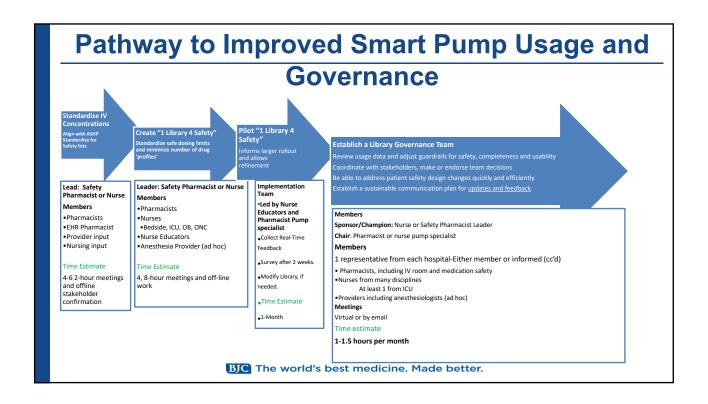


Questions

- How do you get started adopting S4S?
- What were your major barriers?
- How has the adoption gone in acceptance, uptake and results?







2015 Current State						
Infusions	# Hospita	onc/ml (n)	Fluid (n)	Amt / vol (n)	Volume in ml (r	n) Notes
Eptifibatide Infusion Esmolol Infusion	7 8	0.75 mg/ml (7) 10 mg/ml (8) 20 mg/ml (1)	premix (7) 250 (7) 100 (1) - central line ? (1)	75 mg/100 ml (7) 2500 mg/250 ml (7) 2000 mg/100 ml (1) 10 mg/ml (1)	oremix (7) NS (7) ? (1)	
Famotidine Infusion Fenoldopam infusion	1 4	0.32 mg/ml (1) 0.04 mg/ml (4)	NS (1) NS (4)	80 mg/250 ml (1) 10 mg/250 ml (3) 20 mg/500 ml (1)	250 (1) 250 (3) 500 (1)	
FentaNYL Infusion	11	8 mcg/ml (1) 10 mcg/ml (6) 25 mcg/ml (2) 50 mcg/ml (3)	NS (8) ? (2) undiluted (1)	2000 mcg/250 ml (1) 2500 mcg/250 ml (3) 2500 mcg/50 ml (1) 1000 mcg/100 ml (1) 500 mcg/100 ml (1) 500 mcg/50 ml (1) 50 mcg/ml (1) 10 - 25 mcg/ml (2)	50 (2) 50 (3) 100 (2) 250 (4) ? (2)	mcg/ml: 8, 10, 25, 50 Some are CADD
Furosemide Infusion	11	1 mg/ml (8) 2 mg/ml (2) 4 mg/ml (1) 10 mg/ml (1)	NS (8) D5W (3) ? (1)	100 mg/100 ml (7) 200 mg/100 ml (2) 250 mg/250 ml (1) 1000 mg/250 ml (1) 10 mg/ml (1)	100 (9) 250 (2) ? (1)	

Example of tracking document Yellow = ASHP standard concentration Green = Both standards agree Pink = P & T standard concentration Commercially Drug Conc. 1 Conc. 3 Conc. 4 **Dosing Units** Amount/Vol. Available 2500 mg/250 mL (peripheral) 2500 mg/100 mL Esmolol 10 mg/mL mcg/kg/min (central) *ASHP Comments: 10 mg/mL for peripheral, 20 mg/mL for central. Most institutions use the 10 mg/mL premix but dosing ranges indicate the 20 mg/mL is more appropriate based upon fluid volumes 2500 mcg/50 mL 1000 mcg/100 mL 5000 mcg/100 mL FentaNYL4 10 mcg/mL 50 mcg/mL mcg/hour 500 mcg/50 mL *ASHP Comments: Ease of prep, can make 2500 mcg (50 mL) in 250mL to make 10 mcg/mL (need to remove volume of drug and overfill) or use straight drug of 50 mcg/mL No, and the 10 mg/ml is administered 100 mg/100 mL undiluted **Furosemide** 10 mg/mL mg/hour BIC The world's best medicine. Made better

After all the discussion, and a final list was sent out.....

- Bumetanide which will be the standard? Recommend 12.5 mg/50 ml
- Calcium chloride change standard default to 8 gm/D5W 1000 ml and remove other options unless other facilities also use this? Also need option for 8 gm/NS 1000 ml for diabetic patients. These are both currently restricted at BJH to be ordered from within the CVVHDF with Citrate order set only
- Cangrelor Infusion add this item. 0.2 mg/ml concentration (50 mg/NS 250 ml)
- Cisatracurium consider changing the standard to 200 mg/NS 100 ml because it comes in a 200 mg vial
- Clevidipine which one will be the standard? I am told that Medicare only pays for the 25 mg, so maybe that should be the standard?
- Dexmedetomidine which will be the standard? BJH currently uses 50 ml in the OR and 100 ml outside of the OR.
- Diltiazem which will be the standard? BJH uses 100 mg/100 ml due to issues with Dose Edge
- Dobutamine will the standard be 1000 mg/D5W 250 ml with an option for 1000 mg/NS 250 ml?
- Dopamine which will be the standard?
- Furosemide discussed at last meeting. BJH clinicians would prefer 2 mg/ml concentration (200 mg/NS 100 ml)
- · Ketamine change standard to 1000 mg/NS 100 ml and remove 5 mg/ml option. I think most facilities have already agreed on this.
- Naloxone OB uses 0.4 mg/NS 1000 ml. Can this be built as the standard concentration in the OB order set?
- Nicardipine allow options for 50 mg/NS 100 ml (central line) and 50 mg/NS 500 ml (peripheral line)
- \bullet $\;$ Phenylephrine would like to add additional option for 50 mg/NS 500 ml $\;$
- Procainamide change base solution from NS to D5W since there is only stability in D5W in the package insert
- Sodium Bicarbonate no standard listed. Recommend 250 mEq/250 ml (undiluted)
- Terbutaline no standard listed. Recommend 3 mg/3 ml (undiluted)
- Vasopressin there are two concentrations listed as standard. Are you able to do this? One is for hypotension/shock (20 units/100 ml) and one is for GI bleed (100units/100 ml)
- Zidovudine change base solution from NS to D5W since there is only stability in D5W in the package insert

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