



SPS RECOMMENDED BUNDLES

To jump to a specific bundle, simply click on the link below:

[Adverse Drug Events](#)

SPS Recommended Bundle

Table of Contents

Hospital Acquired Condition: [ADE](#)

- I. Background**
- II. Bundle Elements - Overview**
- III. Bundle Elements – Evidence**
- IV. Bundle Elements – Standards of Care**
- V. Measurement- Bundle Reliability**
- VI. Spotlight Tools**
- VII. References**
- VIII. Revision History**

I. Background

ADE (Adverse Drug Events) is the 8th largest contributor to harm caused across the SPS network. These events include levels 6-9 or F-I. In 2011, approximately 15 children were harmed each month across the Phase I SPS hospitals. The team formed in May of 2012 to develop strategies consistent with high reliability concepts to reduce harm caused by ADEs.

II. Bundle Strategies - Overview

Develop Delivery System Intervention Bundle

1. Identifying High Harm Events
2. Review and catalog last 20 F & higher / 6-9 (NCC MERP Scale) ADE Events
3. Identify which medication delivery system the failure occurred
 - a. Ordering
 - b. Pharmacy
 - c. Administration
 - d. Monitoring
4. Determine top 1-2 factors that are common across those events (ie. Phase, Drug, Location, Failure mode, etc.)
5. Develop & Report 2-3 interventions (Hospital Specific Bundle)
6. Track impact on Hospital's 6-9 events

III. Bundle Elements – Evidence

Grade of body evidence: LOW

IV. Bundle Elements – Standards of Care
To be developed at future data

Bundle Element	Standards of Care
Identifying High Harm Events	
Review and catalog last 20 F & higher / 6-9 (NCC MERP Scale) ADE Events	
Identify which medication delivery system the failure occurred	
Determine top 1-2 factors that are common across those events	
Develop & Report 2-3 interventions (Hospital Specific Bundle)	
Track impact on Hospital's 6-9 events	

V. Measurement- Bundle Reliability

Measurement	Formula	Recommendations	Reporting Period
Delivery System Intervention Bundle	Number of audits totally compliant with system failure bundle / Number of audits completed* x 100	*Apply formula to your hospital bundle elements.	Monthly

VI. Tools

We have asked hospitals for some of their spotlight tools, and have highlighted a few in this [folder](#). The highlighted categories are: Bundle Measure Methodology, PDSAs and Interventions, Risk Assessment, Training, and Failure Analysis.

Please click [here](#) to view the SHINE report.

VII. References

1. Franceschi, A., M. Tuccori, et al. (2004). "Drug therapeutic failures in emergency department patients. A university hospital experience." *Pharmacol Res* 49(1): 85-91.
2. Gandhi, T. K., S. B. Bartel, et al. (2005). "Medication safety in the ambulatory chemotherapy setting." *Cancer* 104(11): 2477-2483.
3. Kane-Gill, S. L., J. Jacobi, et al. (2010). "Adverse drug events in intensive care units: Risk factors, impact, and the role of team care." *Critical Care Medicine* 38(6 SUPPL.): S83-S89.
4. Tham, E., H. M. Calmes, et al. (2011). "Sustaining and spreading the reduction of adverse drug events in a multicenter collaborative." *Pediatrics* 128(2): e438-445.
5. Zandieh, S. O., D. A. Goldmann, et al. (2008). "Risk factors in preventable adverse drug events in pediatric outpatients." *Pediatr* 152(2): 225-231.
6. Unpublished, non-peer-reviewed consensus documents – CHCA, CDC

VII. Revision History

I. Version	Primary Author(s)	Description of Version	Date Completed
Version 1	Katie Hilbert	Initial Draft	7-Nov-2012
Version 2.0	Jason Bailey	Addition of sections III, IV & V	5 Feb 2013