## **Metric Selection and Use\***

\*This worksheet was adapted from a 2011 book published by the Healthcare Information and Management Systems Society (HIMSS) entitled "Improving Outcomes with Clinical Decision Support: An Implementer's Guide, Second Edition."

This worksheet is anchored by a list of example metrics that are arranged into four outcome categories: efficiency, quality, safety, and cost. For each intervention, complete a separate checklist. Consider what specific metrics might be appropriate for assessing the intervention's role in addressing its corresponding objective. Note that interventions may address more than one clinical objective, and clinical objectives may be targeted by more than one intervention. The idea behind this worksheet is to help you brainstorm and make explicit how you will know the effects the intervention is having and how you will measure those effects. The last three columns are a scratchpad for thinking through the "who," "when," and "how" for using each metric that you select for the intervention.

## **Metrics Selection and Use**

Clinical Decision Support Objective: Prevent Prescription of Medication to Allergic Patients Intervention Name: Prescription Allergy Alert Window

Check Those That Apply	Efficiency	Metric Owner	Measurement Schedule	Collection Method
Х	By how much has time taken to use system is increased or decreased?	PI coordinator	Weekly X 4	Silent observer, system logs
How has efficie	ncy been affected at the follo	wing medication n	nanagement pro	cess nodes:
Х	Prescribing	PI coordinator	Weekly X 4	Silent observer, system logs
0	Transcribing			
0	Dispensing			
0	Administering			
Quality				
Х	Mortality rate	PI coordinator	Monthly	Existing adverse event reporting process
Х	Morbidity rate (including adverse drug events and reactions)	PI coordinator	Monthly	Existing adverse event reporting process
Х	Length of stay changed?	Sam D. (medical records)	Monthly	Chart review – semi automated
Х	NCC-MERP outcome metrics	Jean S. (pharmacist)	Monthly	Chart review
Х	Effects of CDS on number, class, and type of medications ordered	Jean S. (pharmacist)	Monthly	Existing pharmacy database

Check Those	Efficiency	Metric	Measurement	Collection Method
That Apply		Owner	Schedule	
Safety	A	1	1	Т
	Are number of errors reduced at each of the			
	following medication			
	management nodes:	Di sa sudinatan	NA the box	Established advisors accord
X	Prescribing	PI coordinator	Monthly	Existing adverse event reporting process
0	Transcribing			
X	Dispensing	PI coordinator	Monthly	Existing adverse event
				reporting process
Χ	Administering	PI coordinator	Monthly	Existing adverse event
				reporting process
X	Are number of errors	Jean S.	Monthly	Existing adverse event
	reduced at each NCC-	(pharmacist)		reporting process
	MERP category (B to I)?			
Χ	Are there unintentional	James V.	Monthly X6	Walk rounds, focus groups with
	adverse effects?	(CDS		clinicians to assess qualitative
		Team/evaluati		alert responses
		on)		
Cost			T	T
Х	Resource management	Joan R.	Monthly	Query current billing system
	changes due to CDS	(billing)		
	implementation -			
	cost/benefit ratios			
Х	Change in cost of	Joan R.	Monthly	Query current billing system
	prescribed medication	(billing)		
	related to CDS			
	interventions			