

Electronic White Boards and Nursing Support Tools: Innovative Approaches for Advancing Nurse Sensitive Quality Measures

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<u>Objectives</u>

At the completion of today, you will be able to...

- 1. Discuss the integrated technology model incorporated into the Nursing Process.
- 2. Demonstrate the role of technology in providing timely data to facilitate awareness and improve outcomes

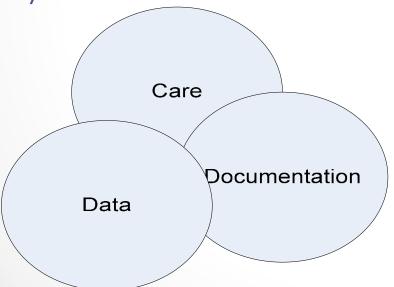
About UK HealthCare:

- The Enterprise is made up of the Albert B. Chandler Medical Center, Good Samaritan Hospital, Kentucky Neuroscience Institute, Gill Heart Institute, Markey Cancer Center, and Kentucky Children's Hospital
- Our new patient care pavilion opened in May of 2011. Our new facility will provide Kentucky with a state-of-the-art patient-centered facility staffed by nationally recognized experts in specialty and sub-specialty care.



Background

- In fall of 2010 opportunities were identified related to Nursing Care and the <u>need for visibility and Readability</u> for NSI's and other Clinical Information at the unit level, managerial Level and Executive Level.
- Through Clinical Retreats and participation from multiple councils the model was developed for Nurse Sensitive Quality Measures.



Care – Knowledge of care processes incorporating Evidence based practice

Documentation – Consistence of practice – clarifies the who/when/where

Data – Data abstraction and evaluation of compliance and patient outcomes

Nurse Sensitive Indicator Model

• GOAL:

- Ensure standard work for each indicator reflective of Evidence Based Practice
- 2. Technically Hardwire the documentation and care processes for each identified measure
- 3. Establish the communication and reporting processes to increase visibility and readability related to the NSI Clinical Information and outcomes.

SCM Display Boards
• Staff Daily Rounding Report

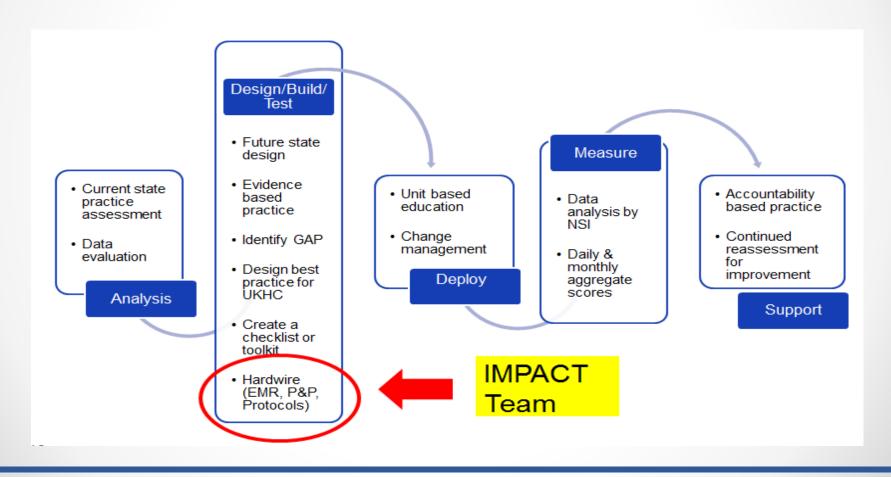
Managers

Monthly Scorecard

Everyone

Nurse Sensitive Indicator Model

Each Nurse Sensitive Indicator would go through a Cycle of improvement



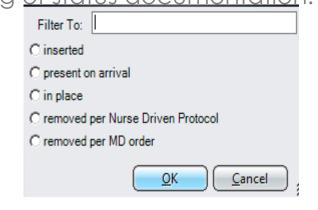
Integration of Model into Nursing Practice

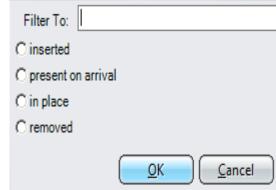
 Analysis of Practice to assist in incorporating documentation standards. Design utilizing single point variable Documentation within the Electronic Medical Record...

Ex. Foley Catheter, Peripheral Line, Restraints, and Central Line Evaluation defined through hardwiring of status documentation.

☐ Restraint Status

C initiated
C restraints remain on patient
C transferred into unit with restraints (list type)
C switched to more restrictive restraint (list type)
C switched to less restrictive restraint (list type)
C transferred out of unit with restraints
C discontinued (list reason)





Integration of Model into Nursing Practice

Real Time NSI Visibility: Electronic White Boards

NSI Variables

Loc /	Patient	Password	SVC	Pager.	RN.	NCT.	New Res	Isol.	VS	FS.	FSBS	Diet	CL	PL	IV	FC U	Brd Scr	Mob.	Fall Ris	Res	СМ	CMNTS	MOT	Stat
531	1 :		MT2 -	2612	Rothing, Jamie Carita	Alisa	7	environmental si	q4h			2 gram sodium			0		19	6-ambu	9 (TBADM
532	1	blue	MT1 -	2611	Rothing, Jamie Carita	Alisa		environmental si		V	108	2 gram sodium;mec	lā	0			21	6-ambu	17) +				TIP
533	(2076	MT5 -	1591	Rothing, Jamie Carita	Alisa		Contact isolation	q8h			regular		0			22	6-ambu	6 (W/C	TBADM
534		1234	MT5 -	1591	Rennecker, Allison	Alisa		Contact isolation	q8h			NPO;tube feeding			0		10	1-turn	7		A		BED	TBADM
535		Jim	MT1 -	2611	Rennecker, Allison	Alisa		Contact isolation		V	223	regular	0		0		21	6-ambi	7 (¥			TBADM
536	!		MT3 -	2613	Rennecker, Allison	Derrick		environmental si	q4h	q6h 🗸	112	regular		0			22	6-ambu	6 (TBADM
537	1	BIG GUN	MT1 -	2611	Rennecker, Allison	Derrick		Contact isolation	q4h			regular;no added sa	t	0			20	6-ambu	13 (W/C	TBADM
539	(:	Genesis	OB - (2652	Walrath RNA, Cathryn M	Derrick		Airborne isolatio	q8h			regular lactating					22	6-ambu	4 (TBADM
540	١		MT1 -	2611	Mann RN, Shannon M	Derrick		Contact D isolat	q4h			regular			0		22	6-ambu	6 (TBADM
542	(SGG -	2331	Mann RN, Shannon M	Derrick		Contact isolation	q4h			regular		0			20	6-ambu	9 (TBADM

Clinical Information

UKHealthCare. Daily Rounding Report 5 East



Bed	MRN	Patient Name	Admit	L05	PU	POA	Braden	Fall Risk	Restraints	Line	Day	Foley	Day	Vent	Day (iultur e
5E-531-B				5	No											
Service:	Medicine / In	ternal Medicine Team 2	Core Measures:						24h Ten	np (F):	97.2-9	97.8	72h V	VBC:	6.7-10	.4
5E-532-B				15	No				N - 65h Active	•	4	•	4			\Box
Service:	Medicine / In	ternal Medicine Team 1	Core Measures:						24h Ten	np (F):	96.8-9	96.8	72h V	VBC:	12.1-1	3.1
5E-533-B				27	No					•	24					\top
Service:	Medicine / In	ternal Medicine Team 5	Core Measures:						24h Ten	np (F):	97.3-9	97.3	72h V	VBC:		
5E-534-B				137	Yes	Yes						•	62			\top
Service:	Medicine / In	ternal Medicine Team 5	Core Measures:	PN					24h Ten	np (F):	96.8-9	96.8	72h V	VBC:		
5E-535-A				10	No					•	3	•	10			~
Service:	Medicine / In	ternal Medicine Team 1	Core Measures:	HF					24h Ten	np (F):	98.6-9	98.6	72h V	VBC:	6.0-7.6	5
5E-536-A				8	No					•	3					~
Service:	Medicine / In	ternal Medicine Team 3	Core Measures:						24h Ten	np (F):	96.2-9	97.2	72h V	VBC:	6.9-9.7	7
5E-537-A				10	No					•	3					\top
Service:	Medicine / In	ternal Medicine Team 1	Core Measures:						24h Ten	np (F):	96.1-9	96.5	72h V	VBC:		
5E-539-B				4	No											
Service:	Obstetrics/Gy	necology / Obstetrics	Core Measures:						24h Ten	np (F):	97.1-9	97.1	72h V	VBC:	L	
5E-540-A				1	No											\neg
Service:	Medicine / Ind	ternal Medicine Team 1	Core Measures						24h Ten	on (E):	96 1-0	26.7	72h V	VRC:	13.5-1	3 7
JEI VICE.	r-ledicine / In	terrar Medicine Team 1	Core ricasures.						2411 1611	ip (i).	30.1-	,,,	/ ZII V	VDC.	13.31	3.7

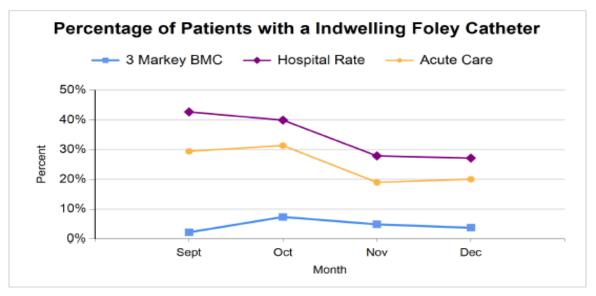
Nursing Sensitive Indicators Catheter-Associated Urinary Tract Infections (CAUTI)

3 Markey BMC

3 Markey BMC Nov. Details

	Counts	
Patients	412	
Patients With Foley	20	
CAUTI	0	Ø
CAUTI Rate*	0.00	

* CAUTI Rate Definition <u># of infections</u> # of indwelling foley catheter days multiplied by 1000 days



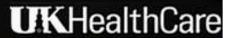
Month	Sept	Oct	Nov	Dec
# CAUTI	0 🔗	0 🔗	0 🔗	0 🔗
% Patients with Foley				
3 Markey BMC	2.2 %	7.4 %	4.9 %	3.7 %
Hospital Rate	42.7 %	39.9 %	27.9 %	27.1 %
Acute Care	29.4 %	31.4 %	19.0 %	20.0 %

Data based on a daily electronic point prevalance of foley status documentation.

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NSI Monthly CAUTI Outcomes for Managers and Nurse Specialist



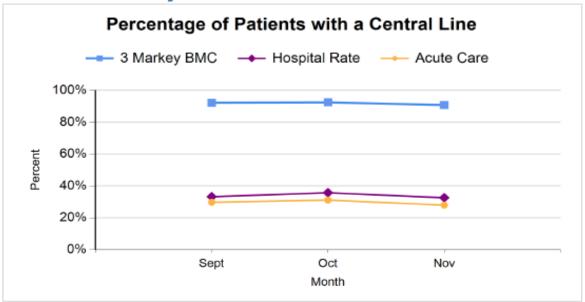
Nursing Sensitive Indicators Central Line-Associated Bloodstream Infection (CLABSI)

3 Markey BMC

3 Markey BMC Nov. Details

	Counts	
Patient Days	412	
Device Days	374	
CLABSI	1	8
CLABSI Rate*	2.67	

* CLABSI Rate Definition # of infections # of central line days multiplied by 1000 days



Month	Sept	Oct	Nov
# CLABSI	4 🐼	4 🐼	1 🐼
% Patients with Central Line			
3 Markey BMC	92.2 %	92.4 %	90.8 %
Hospital Rate	33.2 %	35.7 %	32.6 %
Acute Care	29.7 %	31.1 %	27.9 %

Data based on a daily electronic point prevalance of central line status documentation. Central Lines include: Central, UAC, UVC, PICC, Vascular, Pulmonary and Hemodialysis

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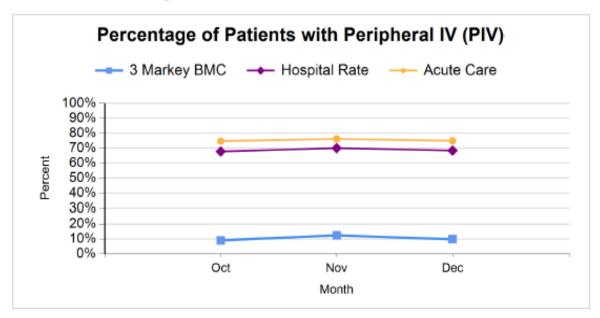
Nursing Sensitive Indicators Peripheral Intravenous (PIV) Infiltration

3 Markey BMC

3 Markey BMC Dec. Details

	Counts	
Patient Days	431	
PIV Days	42	
Infiltrates	0	Ø
Rate*	0.00	

* PTV Rate Definition # of infiltrations # of peripheral TV days multiplied by 1000 days



Month	Oct	Nov	Dec
# Infiltration	0 🔗	2 🐼	0 🕜
% Patients with PIV			
3 Markey BMC	9.1 %	12.4 %	9.7 %
Hospital Rate	67.8 %	70.0 %	68.4 %
A cute Care	74.7 %	76.2 %	75.0 %

Data based on a daily electronic point prevalance of IV status documentation.



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		J Below Above	Exceeds Threshold Meets Threshold
Catheter-Associated Urinary Tract Infection (CAUTI)		Peripheral Intravenous (PIV) Infiltration	n Central Line-Associated Bloodstrear Infection (CLABSI)
Monthly Count		Monthly Count	Monthly Count
0	②	2	0
Monthly Trend	Ø	Monthly Trend	Monthly Trend
Acute Care Comparison	1	Acute Care Comparison	Acute Care Comparison
Redesigned August	2011	Redesigned September 2011	Redesigned October 2011
Patient Falls Monthly Count	÷:	Pressure Ulcers (Hospital Aquired) Stages 1 - 4 Monthly Count	Pain Assessment (AIR) Cycle Assessment / Intervention / Reassessment
0	Ø	2	COMING
Monthly Trend	9	Monthly Trend	SOON
Acute Care Comparison	1	Acute Care Comparison	
Documentation Under F	ledesign	Documentation Under Redesign	Documentation Under Redesign
Physical/Sexual A	ssault	Ventilator-Associated Pneumonia (VAP)	Physical Restraint Prevalence % of patient days with restraints
Monthly Count		Monthly Count	Monthly Count
1	0	0	6.05 %
Monthly Trend		Monthly Trend	Monthly Trend
Acute Care Comparison	1	Acute Care Comparison	Acute Care Comparison
Documentation Under F	Redesign	Documentation Under Redesign	Documentation Under Redesign

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Tools in Development

Executive Summary of Nurse sensitive indicators:

U KHealth		Nursing Sensitive Indicators - November 20					
Unit	CAUTI	CLABSI	VAP	Falls	PIV	Restraints	
Acute Care							
Ground CDU	2	1	0	0	2	0	
2 Markey Cancer Center	1	0	0	6	4	61	
3 Markey BMC	0	0	0	1	0	2	
3 Markey Cancer Center	1	2	0	3	1	2	
3North	0	0	0	0	1	5	
4 East	0	0	0	0	2	0	
4 NCU - Neonatal Care Unit	0	0	0	0	1	0	
4 West	1	1	0	0	2	0	
5 East	0	0	0	2	2	9	
5 South	0	0	0	0	1	33	
5 West	0	0	0	0	2	0	
6 East	0	0	0	0	0	0	
6 North	0	0	0	0	0	19	
6 South	2	0	0	1	0	4	
6 West	0	1	0	0	0	17	
7 South	0	1	0	1	0	14	
7 West	0	0	0	1	0	0	
7E	1	0	0	0	1	40	
8 East	0	0	0	0	1	3	
8 South	0	0	0	0	1	0	
8 West	0	0	0	0	1	33	
Burn Unit	2	0	0	0	1	0	
GS 2 West	0	0	0	0	0	23	
GS 4 East	0	0	0	6	10	0	
GS 4 West Telemetry	0	0	0	1	3	57	
GS 5 East	0	0	0	1	1	4	

NSI Recognition

 In the Pre-survey Summer of 2011, approximately 18% of the people recognized Nurse Sensitive Indicators.

 In the current survey January 2012, approximately 82% of the respondents were able recognize correctly Nurse Sensitive Indicators.

Lessons Learned

- Continual Evaluation of the information and Process essential for Success
- Opportunities with Nursing Compliance and documentation
- Opportunities with communication
 - January 2012 Survey: Nearly 30 % of respondent reported they did not know where to locate their Unit Scorecard

Innovation



OR



Recognition of Team

- Cecilia Page
- Jill Blake
- Sharon Lake
- Matt Turner*
- Aric Schadler*
- Bev Tucker Hansen
- Trish Seabolt
- Kendra Foreman
- Candice Warf
- Lynda Bennett
- Greg Williams

IMPACT Team

NSI Swat Team

NSI Team

Quality and Safety Team

Nurse Practice Council

[&]quot;If everyone is moving forward together, then success takes care of itself.-Henry Ford

