

Demonstrating Organizational Benefit of Pediatric APRN Practice in an Academic Medical Center

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Objectives

- Discuss creative ideas for demonstrating organizational benefit of APRN utilization.
- Describe outcome measures for APRN role activities.

Presenter has no COI to disclose





Vanderbilt Team Recognition

- Jill Kinch, MSN, APRN, CPNP- PC/AC
 APN Manager, Peri-operative Services
- Michelle Terrell, MSN, APRN, CPNP- PC/AC
 APN Manager, Pediatric Critical Care & Cardiology
- Claire Slone, MSN, APRN, NNP-BC
 APN Manager, Neonatal Services





Purpose

- Innovative approach to demonstrating organizational benefit of non-revenue generating pediatric APRN practice in an academic medical center
 - Determine APRN "provider-specific" quality and productivity metrics and develop a means for tracking these metrics systematically.





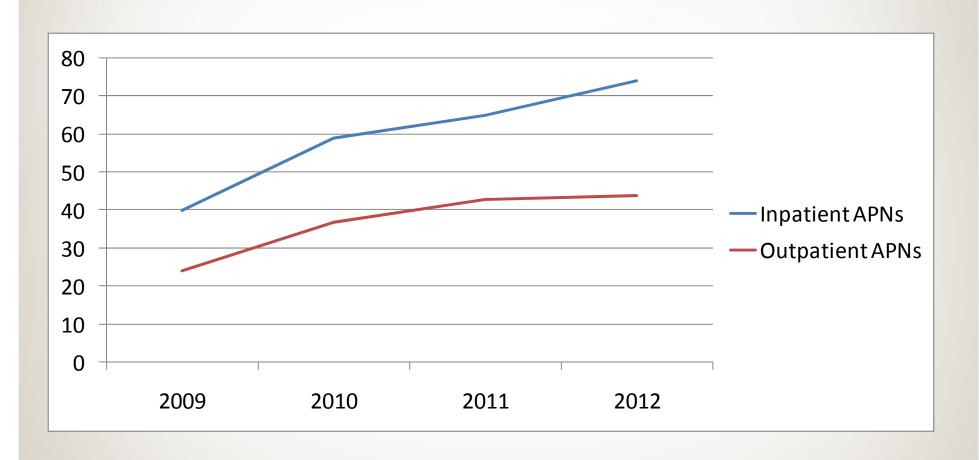
Significance

- Academic medical centers have become more dependent on APRN services to assure patient outcomes and close gaps left by ACGME resident work hour reductions.
 - But with this dependence, cost has risen without a means of documenting benefit and outcomes (return on investment).





APN Utilization at MCJCHV





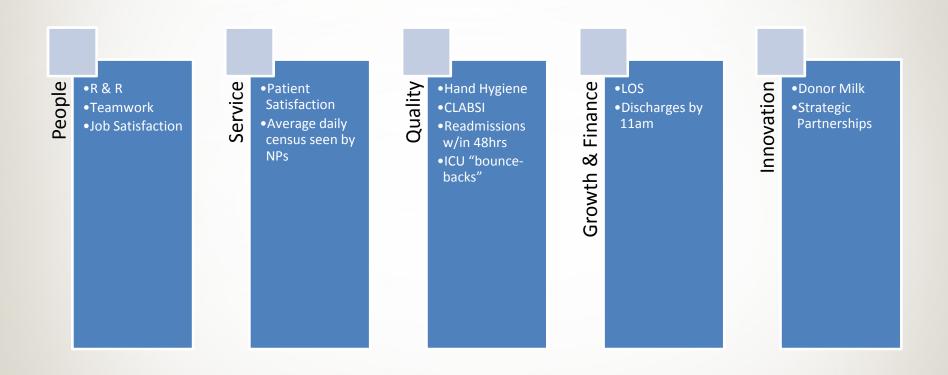


 Based on previous work by Griffin, et al, the Children's leadership team began to distinguish aspects of APRN practice that are driven by APRN "providers" within the hospital

Griffin, E, Staebler, SL, Murey, K, McCorstin, P and Harrington, L. (2007). Dashboards: A tool to demonstrate the impact of the advanced practice nurse in the hospital setting. Oncology Nursing Forum, 34(2), 572-73.











		PEDIATRIC CARDIOLOTY ACUTE CARE APN PILLAR SCORECARD	CLITE CARE APIN PILLAR SCORECARD		=DECLINING						
		- ESIMING GINDIOSOTT ACOTE CARE ATTITISED RECARD		FY 2012 YTD	FY 2012			*=PENDING DAT	A REACH	TARGET	THRESHOLD
PILLAR	GOAL	MEASURES	FREQ	FI ZOZZ TID	QTR 1	IUL	AUG	SEPT	TARGET/COMPARATIVE	TRENDING	SOURCE
	n & er	NEW HIRE RETENTION AFTER 24 MONTHS	QTRLY								HR
	Retention & Turnover	OVERALL TURNOVER	QTRLY								up
	Rete	OVERALL TORNOVER	QIKE								OK .
		% APRNs w/NATIONAL SUBSPECIALITY CERTIFICATION	QTRLY								
PEOPLE		APKINS W/NATIONAL SUBSPECIALITY CERTIFICATION IOB SATISFACTION	ANNUAL								NDNQI COMM.SURVEY
PEO		ENOUGH STAFFING FOR THE WORKLOAD	ANNUAL								COMM.SURVEY
	Other	ADMIN/ MANAGEMENT SUPPORT	Q 2 YRS				†				SAFETY CLIMATE
	ō	TEAMWORK ACROSS UNITS	Q 2 YRS								SAFETY CLIMATE
		TEAMWORK WITHIN UNITS	Q 2 YRS								SAFETY CLIMATE
		PRACTICE ENVIRONMENT SCALE (PES SCORE)	Q 2 YRS								NDNQI 2008
		OVERALL QUALITY OF MEDICAL CARE	QTRLY								PRC
	ion	OVERALL TEAMWORK BET. DRS, NURSES&STAFF	QTRLY								PRC (key driver #1)
CE	Satisfaction	PATIENT ENGAGEMENT (PROVIDER'S INVOLVING PT IN CARE DECISIONS)	QTRLY		i	Ì					PRC (Key driver #1)
SERVICE	Satis	QUALITY OF CARE PROVIDED BY NPS	QTRLY								PRC
SE		APNs COMMUNICATION W/CHILD	QTRLY								PRC
	Patien	APNs COMMUNICATION W/FAMILY	QTRLY								PRC
		MANAGEMENT OF PATIENT PAIN	QTRLY								PRC
		CLABSI Rate-SIR (PCCU)	MONTHLY								Sci Health (NDNQI)
	are ted	HAND HYGIENE COMPLIANCE RATE	MONTHLY								Sci Health (NDNQI)
	Healthcare Associated Infections	SSI CARDIAC- SIR	MONTHLY								Sci Health
	Asse Infe	VAP-SIR (PCCU)	MONTHLY								Sci Health (NDNQI)
		CAUTI-SIR (PCCU)	MONTHLY								Sci Health (NDNQI)
7	s s	MEDICATION ERRORS (RELATED TO ORDER ENTRY)	MONTHLY								VERITAS
QUALITY	Adverse Events		OTRLY								
8	Ą		QTRLY								
	é		QTRLY								
	APRN Sensitive Indicators	READMISSION TO HOSPITAL WITHIN 48H	QTRLY								Medipac
	Sen	RRT CALLS TO PCCU	QTRLY								RESUSCITATION
	FRN Ind	CODES ON 6C	QTRLY								RESUSCITATION
	₹	FIRST CALLS	QTRLY								RESUSCITATION
	Cost	LENGTH OF STAY	QTRLY								Medipac ADT tables
		COST PER UNIT OF SERVICE (VARIANCE)	QTRLY								rsı
	lts of Operation 8 per Discharge	OVERTIME (HOURS)	MONTHLY								FINANCE
CE	scha	VOLUME (PT. DAYS)	MONTHLY								FINANCE
ZAZ	Ş. Ç.	AVERAGE DAILY CENSUS SEEN BY NP GROUP	MONTHLY								NP DATA COLLECTION?
(FE	pe JEs o	NP HRS PER PATIENT DAY	MONTHLY								FINANCE
GROWTH/FINANCE	Resul	% of NP PATIENT ADMITS PER TOTAL PCCU ADMITS	MONTHLY								EDW FROM STARFORMS
RO'	×										
9	25	NUMBER OF PATIENT DISCHARGES	MONTHLY								EDW FROM Medipac
	Volumes	DISCHARGES BY 11am (discharge orders written by)	MONTHLY								Medipac/Wiz
	Vol	Discharge Summary within 48 hours	QTRLY								Medical Records
		AVERAGE NP TIME SPENT ON DISCHARGE/TRANSFER	MONTHLY								
Z	C E S		QTRLY				-	-			DEPT TRACK USAGE
XII.	Personalized edicine, System of Care, VBC		QTRLY								DEPT TRACK USAGE
O _V	son ine,		QTRLY								DEPT TRACK USAGE
INNOVATION Personalized edicine, Syster of Care VRC	100			~~							

at Vanderhilt



PILLAR	GOAL	MEASURES
	Retention & Turnover	NEW HIRE RETENTION AFTER 24 MONTHS OVERALL TURNOVER
PEOPLE	er	% APRNs w/NATIONAL SUBSPECIALITY CERTIFICATION JOB SATISFACTION ENOUGH STAFFING FOR THE WORKLOAD ADMIN/ MANAGEMENT SUPPORT TEAMWORK ACROSS UNITS TEAMWORK WITHIN UNITS PRACTICE ENVIRONMENT SCALE (PES SCORE)

	n	OVERALL QUALITY OF MEDICAL CARE
	Satisfaction	OVERALL TEAMWORK BET. DRS, NURSES&STAFF
SERVICE	isfa	PATIENT ENGAGEMENT (PROVIDER'S INVOLVING PT IN CARE DECISIONS)
RV	Sat	QUALITY OF CARE PROVIDED BY NPs
SE	ent	APNs COMMUNICATION W/CHILD
	Patient	APNs COMMUNICATION W/FAMILY
	d	MANAGEMENT OF PATIENT PAIN





On-going Performance Evaluation

Each metric has established threshold, target and reach goals. Those metrics which have retrospective data will be compared to performance going forward via the scorecard. Strategies are developed for performance improvement for metrics below performance standards (quarterly basis)





Pillar	Goal	Measure	Threshold	Target	Reach
<mark>People</mark>	Retention and Turnover	New Hire Retention after 24 months			
<mark>People</mark>	Retention and Turnover	Overall Turnover			
<mark>People</mark>	Other	% APRNs w/National Subspecialty Certification			
<mark>People</mark>	Other	Job Satisfaction			
<mark>People</mark>	Other	Enough Staffing for the Workload			
<mark>People</mark>	Other	Admin/Management Support			
People People	Other	Teamwork Across Units			
<mark>People</mark>	Other	Teamwork Within Units			
People People	Other	Practice Environment Scale (PES Score)	2.97	3.02	3.08
Service Service	Patient Satisfaction	Overall Quality of Medical Care			
Service Service	Patient Satisfaction	Overall Teamwork Between Doctors/Nurses/ & Staff			
<mark>Service</mark>	Patient Satisfaction	Patient Engagement (Provider's Involving Pt in Care Decision)			
Service Service	Patient Satisfaction	Quality of Care Provided by NP's	3%	4%	5%
Service Service	Patient Satisfaction	APNs Communication with Child			
Service Service	Patient Satisfaction	APNs Communication with Family			
Service Service	Patient Satisfaction	Management of Patient's Pain			
Quality	Healthcare Associated Infections	CLABSI Rate- SIR (6C)	0.99	0.87	0.75
Quality	Healthcare Associated Infections	Hand Hygiene Compliance Rate (NPs 6C)	88%	92%	95%
Quality	Healthcare Associated Infections	SSI Peds Cardiac-SIR	0.89	0.84	0.74





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				FY 2012						AND THE RESERVE OF THE PERSON NAMED IN COLUMN TO THE PERSON NAMED	
					Q1			Q2		Q3	
Pillar	Goal	Measure	FY_11 Results	July	August	September	October	November	December	January	
		Cost per Unit of Service (Variance)	Null						9		
	Results of Operations	Length of Stay (Avg.)	Null								
	& Cost per Discharge	NP Hours Per Patient Day	Null								
		Overtime (Hours)	Null	0	0	0	0	0	Ō		
		% of NP Patient Admits per Total PCCU Admits	Null								
Growth/Finance		Average Daily Census Seen by NP Group	Null		- 		5.4	5	3.6		
		Discharge Summary within 48 Hours	Null								
	Volumes	Discharges by 11am (orders entered/written)	Null								
		Number of Patient Discharges	Null								
		Volume (Patient Days)	Null					Series			
	APRN Sensitive Indicators	Codes on 6C	Null	0	0	0					
		FIRST Calls on 6C	Null	0	0	0					
		Readmission to Hospital Within 48 Hours	Null								
Quality		RRT Calls TO 6C	Null	13	3	2					
		CLABSI Rate- SIR (6C)	Null	0	0	4.09	0	0	0		
	Healthcare Associated Infections	Hand Hygiene Compliance Rate (NPs 6C)	Null	100	100	100	100	100			
	mections	SSI Peds Cardiac-SIR	Null	0	3.2	0	0	0			
		Management of Patient's Pain	71.1	62.5	40	77.8	62.5	88.9			
		Overall Quality of Medical Care	80	87.5	80	77.8	87.5	90			
Service	Patient Satisfaction	Overall Teamwork Between Doctors/Nurses/ & Staff	76.2	87.5	60	88.9	87.5	80			
		Patient Engagement (Provider's Involving Pt in Care Decision)	80	75	80	75	62.5	80			
		Quality of Care Provided by NP's	68.5	87.5	66.7	88.9	75	100			



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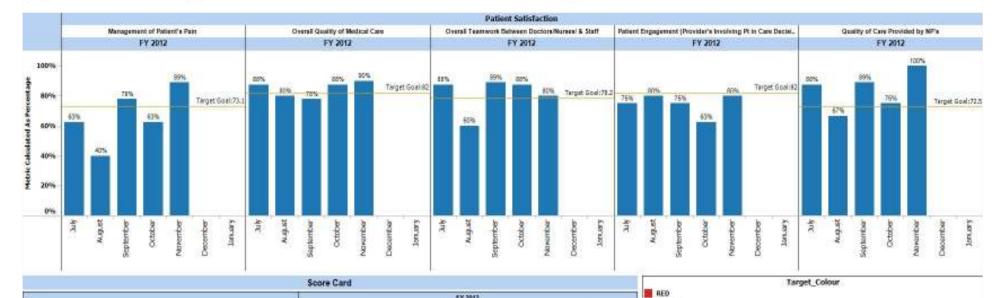
1) Pick A Pillar Service Pick a Goal

Pick A Measure

GREEN

BLUE(Cannot Compare)

All



			4		FY 2012			10		
					- 91			0.7		Q3
Pillar	Goal	Measure	FY_11 Results	July	August	September	October	Hovembet	December	January
		Management of Patient's Pain	71.1	02.5	40.0	77.II	03:5	88.9		
		Overall Quality of Medical Care	80	107.5	00	77.0	107.5	90		
Service	Patient Satisfaction	Overall Teamwork Between Cocksts/Numes/& Staff	76,2	R2.5	10	RR.9	107.5	80		
		Patient Engagement (Provider's Involving Pt is Care Decision)	80	25.	no	75	925	00		
		Quality of Care Provided by NPs	68,5	117.5	667	88.9	75	100		

		Targets		
		Threshold	Tarpet	Read
	Management of Patient's Pain	72.1	73.1	74.1
	Overall Quality of Medical Care	81	82	83
Patient Satisfaction	Overall Teamwork Between Doctors/Nurses/ & Staff	77.2	78.2	79.2
	Patient Engagement (Provider's Involving Pt in Care Decision)	81	82	83
	Quality of Care Provided by NP's	71.5	72.5	73.5





Implications

As APRN specific metrics are monitored, each team has the data to determine aspects of practice requiring review, evaluation and process improvement – allowing objective administrative decision-making for resource and manpower deployment for maximal impact on patient outcomes and process indicators.

