[NM-228] Improving Communication During Perioperative Handoffs: A Multidisciplinary Approach to Risk Reduction

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Background: Perioperative handoffs are an important aspect of ensuring the safe transition of care amongst critically ill patients. Handoff failures are common and often occur in a chaotic and busy environment, which can result in the transfer of incomplete or incorrect patient information. An association between poor quality handoffs and adverse events has been demonstrated (1). After two sentinel events at our institution, which stemmed from incomplete communication between anesthesia providers and the intensive care service, a multidisplinary team was assembled to improve handoffs.

Methods: A team of attendings and fellows from the pediatric and neonatal intensive care units (ICU) and anesthesiology developed a tool to standardize pre and post procedure handoffs. The form (figure 1) prompts providers to relay pertinent clinical data including airway issues, total fluids and sedatives/analgesics, intravascular access, surgical/anesthetic details, critical intraoperative events and important laboratory data. The receiving team completes it. After six months of use, a needs assessment survey was sent to various providers to obtain feedback and identify barriers to effective handoffs. We are also following the use of the tool.

Results: The first month of the project, usage of the tool in the pediatric intensive care unit was 60% of all cases returning from the operating room with a peak of 76% three months after project initiation. As identified by the survey, barriers to teams being present for face-to-face handoffs include lack of knowledge about patient arrival on the unit, inability to leave bedside of more critical ICU patients, presence of ICU providers in a timely fashion, and overall poor compliance of the handoff tool.

Discussion: Though our project is in its infancy, we believe that the creation of a standardized handoff tool, optimizing the information, and mandating its routine use will improve patient safety and lead to a decrease in adverse events related to miscommunication. As evidenced by prior studies, we expect that the use of the tool will improve the quality and reliability of the handoff process as well (2). Potential areas for improvement include improving the usage of the tool to a goal of 100% involvement and overcoming the barriers identified by the survey. Future goals of development include evaluating quality of handoffs, measuring patient outcomes, incorporating the handoff tool into the computerized medical record, and expanding to include other disciplines and areas of the hospital (i.e. operating room to general floor admissions).

References:

1. Segall et al. Anesth Analg 2012; 115: 102-15

2. Boat A, Spaeth J. Pediatric Anesthesia 2013; 23: 647-654

NON-CARDIAC PERIOPERATIVE HANDOFF

PRE-Procedure Primary care team (RN & MD) to Anesthesiology		Patient Stoker Here					
Date			Weight Allergies				
Diagnosis:			NICLIPICU				
NEURO (sedator, pain control, etc.)	EV periodynamics, vaco	active drugs, etc.)	Resp: (summit support, airway issues, ETT/bach aze, etc.)				
Herris: (onapulspafty, recent platelet count, transfusion reaction history, etc.)	GHOUL (foliey, NGT, pash	uatony, etc.)	Other				
Lines & Infusions: John is currently for	MicE: (critcal medi due, e.g. artibistics, artispleptics, stress-dose steroids)						
Plan to change influsion lines?							

Ansethesis handoff PACU team handoff Date							Palient Sticker Here					
Patient History												
Diagnosis:						ī,	Neight					
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surgery						-						
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Sungical Service Present at Signout? If so, which Service?	Yes	No										
ntra-Operative Events/Complications? If yes, explain:	Yes	No										
ingreficant Bleeding? If yes, explain:	Yes	No										
h		Lines		1	hains/Tel	-			EV	0		
Crystalloid Crystalloid CellSaver	PfV			Туре		Suction			Set at?	om		
PRBC			1		Yes		No					
Platelets	Arterial											
Cryopresipitate Other	cvc				Yes Cont D US		No		CSF to be replaced?			
Out EBL UOP	Other		1		Yes Cont		No					
Other					u us	-						
Anesthesia												
viesthesia Present at Signout?	Yes	No				7	inesthesiologie	¢.				
						1	Contact (pager)	ŧ.				
Difficult Airway? Eves, explain:	toult Airway? Yes No					Tr	Intra-operative					
						lľ	Paralytics?					
Extubated in OR?	Yes	No				1	Sedatives? Analgesics?					
and the second second						l	Last given?					
Ventilation/Oxygenation problems?	Yes	No	-			11	Steroids?					
						l	Vancoreances	,				
PICU Checklist						Į,						
a Diet a rvF						1	Vasodiators? Anti-HTNs?					
Post-op imaging						l	Last hemoglo	bin				
3 BP limits						l	Peak lactate					
									-			

Comer OR deak: 2-6585 Comer OR#: 4-690_(room #) Comer PACU: 4-4460 PICU attending: 5-7959 PICU fellow: 5-7949 PICU main: 2-6494

PICU charge RN: 5-7979 NICU fellow: 5-6373 NICU charge RN: 5-6350