Beaumont

PACU Handover QI

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Project Genesis

Approached by hospital surgical administration August 2017 to develop a Quality Improvement Project – **PACU Handover**



Perioperative Services Priorities

Patient Safety

- President and Vice President of Surgical Services endorsed effort
- Engaged multidisciplinary team to begin a deep dive into current state and develop future state



National Support

- **1. Joint Commission-**National Patient Safety Goal
- 2. ASPIRE Handoffs are a vulnerable moment for patient safety
- **3. APSF** PACU complications rate of 23% compared to intraoperative complications rate of 5%



Evidence



Volume 32, No. 2, 29-56

The substantial number of preventable deaths

and other adverse events associated with health care are now widely recognized.¹² Handoffs (also

called handovers), or transfers in care responsi-

bilities of various types, are among the most

important contributors to these outcomes that we

must strive to improve. Approximately a decade ago, The Joint Commission (TJC) reported that

ineffective communication was the most common

reason for sentinel events among a variety of

medical specialties.³ Subsequently, TJC made

handoff communication a national patient safety

goal.3 The Accreditation Council for Graduate

Medical Education (ACGME) followed suit and

made handoff communication education a

in the US.4 The reduction in resident work hours

coupled with the increase in the number and vari-

ety of alternative providers participating in

patient perioperative care prompted TJC, the

equirement for all accredited teaching programs

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Handoff Communication: An APSF Safety Initiative and Perioperative Provider Concern

by Steven Greenberg, MD, FCCP, FCCM



In EAPSF's mission is to continually improve the safety of patients during anesthesia care by enhancing research, education, and promoting programs that stimulate ideas for positive safety change. As one step toward fulfilling that mission, the APSF has provided funding to investigate the ference, entitled "Perioperative Handoffs, Achieving Consensus on How to Cet It Right," focused on developing a multidisciplinary consensus on critical elements for safe handoff processes (watch for the conference report in an upcoming issue). Throughout this issue of the APSP Nearsletter, we highlight some key topics that point the way toward achieving a goal that no patient should be harmed as a result of a transfer of perioperative care. Dr. Jeffrey Cooper, renowned for his work in this field, convend several experts to describe the the process and elements of an optimal handoff, examine some challenges of implementation, and consider the creation of a multicenter collaborative to improve the education, research, and implementation of perioperative handoffs. We hope all readers will be motivated to reflect on their own handoff rogranizations face the challenge of reducing harm from suboptimal handoff practices by getting involved to work for improvement.

Sentinel Alert Event

Published for Joint

Commission-accredited

health care professionals.

organizations and interested

Sentinel Event Alert identifies

specific types of sentinel and

adverse events and high risk

conditions, describes their

common underlying causes.

and recommends steps to reduce risk and prevent future

Accredited organizations

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designing or redesigning

processes and consider

implementing relevant

should consider information in

occurrences.

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Inadequate hand-off communication

Health care professionals typically take great pride and exert painstaking effort to meet patient needs and provide the best possible care. Unfortunately, too often, this diligence and attentiveness faiters when the patient is handed off, or transitioned, to another health care provider for continuing care, treatment or services. A common problem regarding hand-offs, or hand-overs, centers on communication: expectations can be out of balance between the sender* of the information and the receiver.¹ This misalignment is where the problem often occurs in hand-off communication.

Potential for patient harm – from the minor to the severe – is introduced when the receiver gets information that is inaccurate, incomplete, not timely, misinterpreted, or otherwise not what is needed. When hand-off communication fails, many factors are involved, such as health care provider training and expectations, language barriers, cultural or ethnic considerations, and inadequate, incomplete or nonexistent documentation, to name just a few.

A hand-off is a transfer and acceptance of patient care responsibility achieved through effective communication. It is a realtime process of passing patientspecific information from one caregiver to another or from one learn of caregivers to another for the purpose of ensuring the continuity and safety of the patient's care.¹

What is a hand-off?

This alert provides advice to senders and receivers of hand-off communication, including communication between caregivers within hospitals and other health care settings, as well as between hospital caregivers and those not located in a hospital. Senders are responsible for sending or transmitting patient data and releasing the care of the patient to receivers, who have been identified as those who will receive patient data and accept care of the patient. This alert makes the basic assumption that the hand-off already involves the correct receiver; sender and patient.

While it sounds simple, a high-quality hand-off is complex. Failed hand-offs are a longstanding, common problem in health care. In 2006, The Joint Commission established a National Patient Safety Goal that addressed handoff communication. In 2010, the requirement became a standard. Provision of Care standard PC.02.02.01, element of performance (EP) 2, requires that: The organization's process for hand-off communication provides for the opportunity for discussion between the giver and receiver of patient information. Note: Such information may include the patient's condition, care, treatment, medications, services, and any recent or anticipated changes to any of these.

* For the purposes of this alert, the sender is the individual who provides the clinical information to the receiving caregiver.

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Anesth Analg. 1992 Apr;74(4):503-9.

Complications occurring in the postanesthesia care unit: a survey.

Hines R1, Barash PG, Watrous G, O'Connor T.

Author information

Abstract

To identify and quantitate complications occurring in the postanesthesia care unit (PACU), a prospective study evaluated 18,473 consecutive patients entering a PACU at university teaching hospital. Using a standardized collection form, the incidence of intraoperative and PACU complications was determined. The combined PACU and intraoperative complication rate was 26.7%. Data showed a PACU complication rate of 23.7%, with an overall intraoperative complication rate of 5.1%. Nausea and vomiting (9.8%), the need for upper airway support (6.9%), and hypotension requiring treatment (2.7%) were the most frequently encountered PACU complications. Patients in whom PACU complications developed were analyzed by ASA physical status. Of all patients experiencing nausea and vomiting (n = 1571), the highest percentage were ASA physical status II patients (n = 831). Likewise, in the group of 1450 patients who demonstrated a need for upper airway support, 792 were ASA physical status II. In patients experiencing a major cardiovascular complication, for example, variables associated with a greater risk of developing any PACU complications were ASA physical status [1, duration of anesthesia (2-4 h), anesthetic technique, emergency procedures, and certain types of surgical procedures (orthopedic or abdominal). For patients admitted with a temperature of less than 35 degrees C the duration of the PACU stay was 152 +/- 46 min compared with 116 +/- 65 min for patients with a temperature greater than or equal to 36 degrees C (P less than 0.01). In conclusion, events occurring during the PACU period continue to be a source of patient morbidity.

7/20/2018



GOALS FOR PACU HANDOVER

- Identify a standardized process
- Set clear expectations for providers
- Utilize a standardized tool
- Engage and educate providers
- Compliance



Handover – OR to PACU

- Multidisciplinary Meetings Fall 2017
- Preliminary audits April 2018
- Education and video presentation May 2018
- Implementation of Standardized Tool June 2018
- Audit Process July 2018



Multidisciplinary Meetings

Findings of Current Environment:

- Lack of Teamwork
 - Lack of respect
 - No discussion regarding plan of care
 - Focus on computer
 - Many distractions
- Lack of standardization
 - No consistency
 - No tool
 - No time out

- No history from pre op
- Unreliable information
- Production Pressure
 - Quick turn-over time
 - Priorities not aligned
- Technology
 - Staff without phones
 - Focus on computer



Multidisciplinary Meetings

Ideal Environment Goals:

- Priorities aligned
- Standardization of information
 - Handover Tool
 - Standardize process
- Effective Communication
 - Respectful
 - Accurate
 - Collegial
 - Professional



Preliminary Audits

- Assessed current state of PACU handover
- 55 total audits completed
- Audit team = 2 CRNAs, 4 PACU RNs
- Audit tools developed:
 - APSF
 - Joint Commission publication
 - MPOG



PACU HANDOFF FORM				
Provider:	Patient M RN:			
te/Time: Patient Age/Gender:				
Auditor:				
Procedure Type:				
Desland		V	N	N/A
Background		Yes	No	IN/A
Introduction (Provider names and roles Nu Identification of Patiesn	rsing/Anesthesia/Surgery)			_
Pertinent PMH/PSH				_
Discussion of Procedure Performed		+	+	_
Allergies			-	_
Contact Percautions (if Applicable)				
Anesthetic Management			No	
Airway Management (Mask/LMA/ETT)				
Type of Anesthetic (general vs. sedation)				
Anesthetic Complications/Primary Concerns		_	_	_
Medications		Yes	No	N/A
Preoperative Meds		165	110	1N/A
Sedations medication. Reversal administer	red? (if applicable)	+	+	_
Muscle relaxants: Time Given. Reversal ad			+	
Pain Management	initiate ed. (in appreader)	-	+	
PONV Hx & Meds Administered				
Fluids		Yes	No	N/A
Vascular Access				
Total Intraoperative Fluids/Blood Products	Administered			
Intraoperative Labs (if applicable)				
Expectations/Plans		Yes	No	
	dgement of understanding of report from receiving PACU team	10	140	_
Allow opportunity for questions/acknowle	agement of understanding of report normal aving PACO team	_	-	_
Comments ***Do Not Include A				

Confidential Peer Review





DATE			
AREA			
RN			
CRNA			

PLEASE ANSWER YES OR NO FOR EACH ITEM BELOW

TOC BEGINS AFTER INITIAL ASSESSMENT & PATIENT IS STABILIZED UTILIZES STANDARDIZED TOOL					
REPORT IS FACE TO FACE					
MINIMAL INTERRUPTION/ DISTRACTIONS					
TWO WAY COMMUNICATION					
BEHAVIORAL COMPONENT					
	PATIENT STICKER				

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Preliminary Audit Findings

- Initial interaction
 - Chaotic
 - Distractions
 - Report not face-to-face
 - Premature start of report
- Omission of key data



Anesthesia to PACU Report:						
Contact Precautions?						
Initial	Airway: 02, Pulse Oximetry					
IIIItiai	Monitors: BP, EKG, Temp					
Introduction						
(Provider nam	nes and rol	es: PACU F	RN and anesthesia team members)			
"Are you ready for verification and report?" Computer Verification and ALLERGIES						
Background						
Communicatio	on Barriers	/Special N	eeds			
Pertinent PMI	H/PSH/Lab	s				
Discussion of a	Discussion of surgical / procedure course					
Anesthetic Management						
Airway management (ETT/LMA)						
Type of anesthetic						
Intraoperative labs						
Anesthetic Complications						
Medications						
Preoperative Meds (Betablocker, Resp treatment, Insulin, Abx)						
Sedation medications & amount administered. Reversal administered?						
Muscle relaxants: Time/Amount administered. Reversal administered?						
Intraoperative Pain Management						
PONV Risk & Meds Administered						
Intake & Outp	out					
Vascular acces	SS					
Total Intraoperative Fluids/Blood Pro			Products Administered			
Urine Output/	'EBL					
Expectations /	/ Plans					
Identify primary anesthesia concerns for this patient						
Allow opportunity for questions/acknowledgement of understanding of						
report from re	report from receiving PACU team					



Education

- Presented at multiple staff meetings
- Laminated Standardized tool at each PACU bay
- Multiple postings in common CRNA areas
- Video demonstration and power point

Implementation

- Pilot process in 2 of our 4 PACUs
- Education coaching during handover process in PACU
- Plan to begin process in final 2 PACUs in September 2018
- Continue audit schedule for one year



Audit Process

- Most important way to ensure compliance is to continually audit the process
- Audit Team = 1 manager, 3 RNs and 1 CRNA
- 5 BH audits/month per team member (25 total)
- 4 MPOG audits per month Surgical Quality Nurse Clinicians



Results

- Began July 9, 2018
- Continue to educate
- Audit/coaching at the same time
- Added to the orientation mandatories
- Negative Feedback too long, not necessary for each patient case, slows work flow
- Positive Feedback thorough, easy to follow, similar to what we've been doing

Challenges

- Compliance with tool
- Changing the culture
- Skipping information
- Viewing the educational video
- Audits



Video Demonstration

