

For Patients Undergoing an Invasive Procedure, Will Instituting a Post Procedure Sign out/Debrief Result in a **Reduction of Errors?**

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Background

- Specimen containment, requisition, or labeling errors occur in about 6% of operations nationally
- 13 intraoperative errors occurred at NLEMMC in 2019
- Wrong site surgery occurs in 1 out of 112,000 surgeries
 - o 5% of these are performed on the wrong patient o 60% are wrong site laterality
- **Debrief Procedure:**
- Before an invasive procedure, a surgeon-led briefing is performed. A brief surgical plan is discussed, along with anticipated risks, equipment concerns, specimens, patient positioning, and an introduction of team members
- At the end of a procedure, a similar discussion is to be had. The surgeon-led debrief will include estimated blood loss, surgical complications, and confirmation of surgical specimens.

Practice Change

Increase operating room (OR) and emergency department (ED) staff knowledge of integrating AORN recommended time outs and debriefs in daily clinical practice

Methods

- Observational pre-audit and assessment completed in OR and ED
- Presented educational posters inside each OR for staff to review individually
- Post-survey and assessment completed with documented errors during invasive procedures (pre and post implementation)

Before Skin Incisio PAUSE: All other a n case of life-thre Time-Out lead by ntroduction of te onfirmation of P onfirmation of S signed by surgeon Provider confirm laterality Incision Site is ma Surgeon: states ca Anesthesia provid Allergies Anesthesia provid 1 hour before incis Fire Risk Assessme mplemented Smoke Evacuato peing used? **RN** Circulator and dicators confirm Aed Labeling – m ield are labeled w SI Prevention – applied (3 minute

Universal P

Blue = World PREP n Holding Area Patient/patier actively confirm Nurse (RN):

dentity

Yes rocedure and Site marked y person perfe RN confirms pr

story and phy eanesthesia a

Yes iagnostic and

lood product:

Yes DN/

Yes 🗆 N

ny special equ

plants Yes 1 N/ Include in Pr

in as per ins Beta blocker (SCIP) Venous the prophylax Ye: Normotherm

The .

Measures and Results

Audit Forms

e*	Case 1 MR #		Case 2 MR #	
	Yes	No or N/A	Yes	No or N/A
n				
ctivities to be suspended (except				
tening emergency)				
Provider				
im members				
tient Identity – two identifiers				
rgical Consent – dated, timed, and patient				
procedure, incision site and				
ked and visible				
e duration, anticipated blood				
er: confirmation of Patient				
er: antibiotic prophylaxis within ion				
nt – prevention methods				
Is a smoke evacuator device				
Scrub Person – sterilization			p	
dications and solutions on the				
th name and strength				
in prep agent dry before drapes Iry time)				
				-

Auditor:	Case 1 MR #		Case 2 MR #	
Date:	Yes	No or N/A	Yes	No or N/A
Actual procedure done				
EBL				
Emergence/Recovery Concerns				
Foley/Drains/Packing				
Equipment				
Position restrictions				
Specimens				
Case Review: CST, Circulator, Anesthesia, Surgeon, Others(as needed)				
Next Case: ABX, Position, Table, Anesthesia,				
Equipment				
Expected Return Time:				
Comments:				
	Case 1 MR #		Case 2 MR #	
Auditor:				!
Auditor: Date:		No or N/A		No or N/A
	MR #		MR#	
Date:	MR #		MR#	
Date: Actual procedure done	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns Foley/Drains/Packing	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns Foley/Drains/Packing Equipment Position restrictions	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns Foley/Drains/Packing Equipment Position restrictions Specimens	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns Foley/Drains/Packing Equipment Position restrictions Specimens Case Review: CST, Circulator, Anesthesia,	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns Foley/Drains/Packing Equipment Position restrictions Specimens Case Review: CST, Circulator, Anesthesia, Surgeon, Others(as needed)	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns Foley/Drains/Packing Equipment Position restrictions Specimens Case Review: CST, Circulator, Anesthesia, Surgeon, Others(as needed) Next Case: ABX, Position, Table, Anesthesia,	MR #		MR#	
Date: Actual procedure done EBL Emergence/Recovery Concerns Foley/Drains/Packing Equipment	MR #		MR#	

Educational Pamphlet

ROCEDURE	SIGN-IN	TIME-OUT	ient Safety Goals Orange = JC and W SIGN-OUT		
	Before Induction of Anesthesia	Before Skin Incision	Before the Patient Leaves the Operating Room		
s with Registered confirm: All other activities to be suspended (un		All other activities to be suspended (unless a life- threatening emergency)	RN confirms:		
procedure site Yes N/A rming the procedure	Confirmation of: identity, procedure, procedure site and consent(s)	Introduction of team members Yes All: Confirmation of the following: identity, procedure, incision site, consent(s) Yes Site is marked and visible Yes N/A	Name of operative procedure Completion of sponge, sharp, and instrument counts □ Yes □ N/A Specimens identified and labeled □ Yes □ N/A Any equipment problems to be addressed? □ Yes □ N/A		
sical 🗆 Yes ssessment	Difficult airway or aspiration risk? No Yes (preparation confirmed) Risk of blood loss (> 500 ml)	Relevant images properly labeled and displayed Pres DN/A Any equipment concerns?	To all team members: What are the key concerns for recovery an management of this patient?		
radiologic test results	□ Yes □ N/A # of units available Anesthesia safety check completed □ Yes	Anticipated Critical Events Surgeon: States the following: critical or nonroutine steps case duration			
ipment, devices,	Briefing: All members of the team have discussed care plan and addressed concerns	 anticipated blood loss Anesthesia Provider: Antibiotic prophylaxis within one hour before incision	June 2013		
eprocedure check- titutional custom: medication given Yes	□ Yes	 Additional concerns? Scrub and circulating nurse: Sterilization indicators have been confirmed Additional concerns? 	AOR N		

also does not stipulate where these activities occur. See the Universal Protocol for details on the Joint Commission requirement

71 % Compliance after unit education 10 Errors found first audit 3 Errors found second audit



Summary/Discussion

Next Steps:

- Create and implement strategies to increase structure and participation in debriefs. Determine how to minimize distractions
- Track number and type of errors during invasive procedures.
- Correlate surgical errors to presence or absence of AORN debrief checklist

Barriers of this Study:

- Lack of time to complete a post survey
- Lack of participation by surgical staff
- Lack of access to information regarding errors

Conclusion

- Rates of intraoperative errors can be lowered with the completion of and adherence to a standardized debrief checklist
- The largest barriers to debrief completion were identified to be a lack of participation, distractions, and miscommunication
- Written education provided to RNs will help outline why a thorough post-operative debrief should be a priority in the clinical setting
- Post education results pending

References

• Gerhardt, A. (2018). Using Safety Checklists Outside of the Operating Room. UNM Digital Repository. Retrieved from