

# Not Just Another Checklist: Using Technology to Implement the Time-Out in the Non-OR Setting

Ross Ehrmantraut, RN, CCRN  
Patient Safety Officer

Liz McNamara, RN, MN  
Clinical Operations Manager for Infection Control

Harborview Medical Center

# TJC Sentinel Events

- Ø Wrong-patient, wrong-site, wrong-procedure has been the most reported sentinel event over the last three years
  - Since 2004, it's the most commonly reported sentinel event with over 1000 reported cases

# Examples of Wrong Procedures In and Outside the OR

- Ø Stent placed in the wrong ureter
- Ø Removal of the wrong tooth
- Ø Hernia repair initiated on non-primary side
- Ø Wrong Side Chest Tubes
- Ø Steiman pin placed in wrong leg
- Ø Wrong Side Pigtail Drain
- Ø Initiation of incision on the wrong side

# Procedural Time-Out Catches

- Pt. consented for R side surgery, but was booked as left side. Prepped left side and **consent read aloud as right side during time out.**
- Consent read partial amp right 2-4 fingers. Pt agreed with consent in pre-op area and R hand marked. **Consent reviewed in time out.** Surgeon discussion with patient had been fingers 2 and 4.

# Components of the Time Out

1. **Correct Patient Identity**
2. **Correct procedure**
3. **Correct Side and Site**
4. **Agreement on Procedure to be done**
5. **Availability of Implants, Special Equipment or Special Requirements**
6. **Correct Position**

# History of Time-out at HMC

- ✗ No Standardization across the institution outside the OR
  - Paper tool – QI project
    - EMR had place to check “Time-out done”
  - Stickers for the ED – included the elements of the time-out
  - Radiology areas – paper tool – charted “Time-out done”
    - Paper tool eventually became a checklist
  - Clinics developed a paper tool

# Opportunities

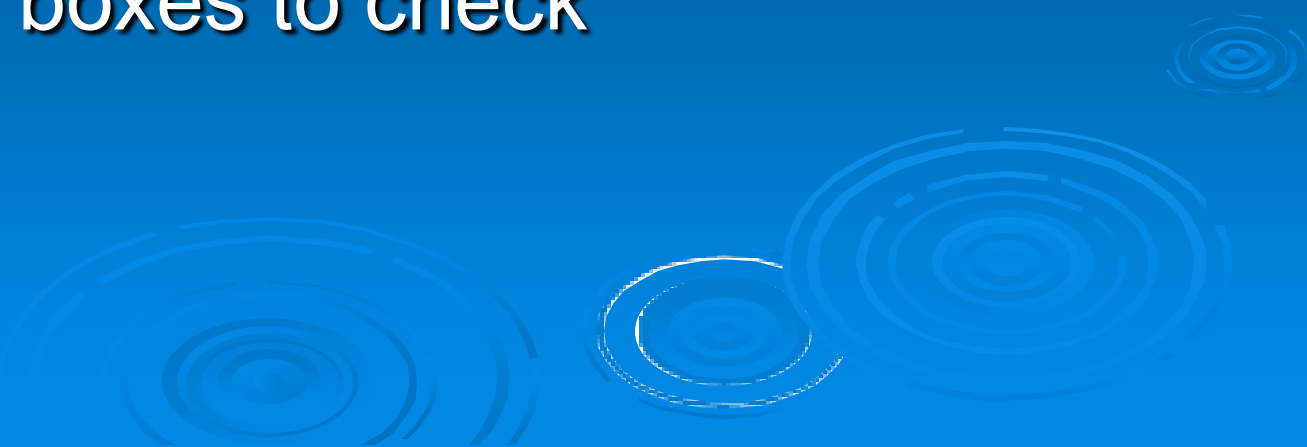
- Ø EMR provided an opportunity to develop an electronic tool to be used on inpatient side
- Ø Central line bundle provided opportunity to look at all procedures
  - First electronic time-out note focused on central line insertion
  - Evolved to multiple procedures eventually becoming a nursing procedure note

# Implementation

- Ø Focused on Critical Care areas first
- Ø Procedural areas now utilizing tool
- Ø Currently rolling out to acute care areas
- Ø Clinics currently rolling out electronic tool
- Ø Radiology technologists will begin to document time-out in EMR
- Ø ED still using paper tool
- Ø Current Nursing Procedure/Time-out note has 37 different procedures and growing



# Barriers

- Ø Who's responsible for initiating time-out?
  - Ø Some procedures involve only the provider
  - Ø Belief that many procedures are an emergency
  - Ø “Just more boxes to check”
- 



## ED TIME OUT and Procedure Checklist

PURPOSE: To work as a team to decrease patient harm from invasive device associated infections and complications.

WHEN: During all invasive device insertions.

COMPLETED BY: Bedside Nurse/Physician performing procedure.

### EACH PROCEDURE REQUIRES A SEPARATE FORM

Procedure: (check one box only)	<input type="checkbox"/> Central Line	<input type="checkbox"/> Invasive Cranial Device	<input type="checkbox"/> DPL
	<input type="checkbox"/> Arterial Line	<input type="checkbox"/> Thoracentesis	<input type="checkbox"/> Other: _____
	<input type="checkbox"/> Chest Tube	<input type="checkbox"/> Paracentesis	
	<input type="checkbox"/> Lumbar Puncture	<input type="checkbox"/> Steinman Pin	

TIME OUT			
<input type="checkbox"/>	Correct patient identity		
<input type="checkbox"/>	Correct side and site (circle)	L	R NA
<input type="checkbox"/>	Agreement on procedure to be done		
<input type="checkbox"/>	Availability of implants, special equipment or special requirements		
<input type="checkbox"/>	Correct patient positioning		

	Yes	NA	COMMENTS
<b>BEFORE THE PROCEDURE</b>			
Wash hands (chlorhexidine or soap) immediately prior	<input type="checkbox"/>	<input type="checkbox"/>	_____
Chlorhexidine prep to site	<input type="checkbox"/>	<input type="checkbox"/>	_____
Drape entire patient in a sterile fashion (with angio drape)	<input type="checkbox"/>	<input type="checkbox"/>	_____
Smaller drape may be used for ICP, A-line, etc.			
Optimal Catheter Site Selection, with Avoidance of the Femoral Vein for Central Venous Access in Adult Patients	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>DURING THE PROCEDURE</b>			
All involved wear Sterile gloves	<input type="checkbox"/>	<input type="checkbox"/>	_____
All involved wear hat, mask and sterile gown for procedure	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maintain sterile field	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>AFTER THE PROCEDURE...</b>			
Sterile dressing applied to the site	<input type="checkbox"/>	<input type="checkbox"/>	_____

# Angio Time-out

## Mini Check

- **Mini check** is completed when patient enters the lab. **Anesthesia/RN** and **Rad tech** check patient's name, hospital number and date of birth against the consent and patient ID band.

## Angio Time Out

- **The Time Out is to be conducted immediately prior to procedure.**
- **All Angio team members must be present for the Time Out.**
- **Rad tech** initiates the Time Out and facilitates Team Introductions.
- **All team members stop what they are doing and focus** on the Time Out. The Time Out will not continue until **all team members are paying attention.**
- **Anesthesia/RN** reads aloud and **Rad Tech** confirms that the patient's full name, hospital number and date of birth match on the consent, ID Sticker, and Docusys screen if anesthesia case.
- **Rad tech/RN** displays the consent to the **Physician**, reads aloud and confirms the procedure and **site.**
- **Anesthesia/ radiology RN** confirm any allergies, pre-op antibiotics and blood product availability.
- **Anesthesia/ radiology RN** confirm availability of special medications and fluids
- **Rad tech** confirms the availability and positioning of equipment, implants, and special devices
- **Rad tech /RN** or **Physician** confirm the location of family (for anesthesia cases)
- **Rad tech** asks the team: "Do we all agree?"

**The procedure will not begin until the time out is complete**

## Post procedure

- The primary team is called by physician at completion as required. Report is given to Rad RN by anesthesia if anesthesia case for recovery.
- Radiology RN gives verbal report to ICU/AC/APA RN post procedure.
- Post procedure orders are written by physician (and anesthesia if applicable)

# Example of Standardize Checklist



# Nursing Documentation in ORCA

Arial 12

**Procedure** <Hide Structure> <Use Free Text>

Prior to Procedure **M**

Allergy profile

Allergies? (heparin, latex, chlorhexidi): Unknown / Done / OTHER

Anticipated pain & anxiety addressed: Done / OTHER

Consent form signed: Done / OTHER

Applicable test results available: Done / OTHER

Hands washed (clarify if not witnessed): Done / OTHER

Time Out/Final Verification:

Active Time Out (all present & focused)? Done / OTHER /

Correct patient using 2 identifiers: Done / OTHER /

Correct procedure: Done / OTHER /

Correct Site/Side Marked: Done, R side / Done, L side / Not Applicable / OTHER /

Correct patient position: Done / OTHER /

Availability of special equip/meds/blood: Not applicable / Yes / OTHER /

All syringes labeled with contents: Done / OTHER

Pt monitoring

EKG: Not applicable / Yes / No

O2 Saturation: Not applicable / Yes / No

VS q15 min during procedure: Yes / No / OTHER

**Procedure Performed** <Hide Structure> <Use Free Text>

Angio >>

Arterial Line >>

Bone Marrow Biopsy >>

# Final View

Sum	Form Browser	IO Review	<b>Clinical Notes</b>	Alerts	Pt Plan Sum	Pt Status Sum	MD Sum	All Results	72hr Results View	Lab	Cultur
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Last 250 Documents : 251 out of 254 documents are accessible. (Document Count) In Error Documents Filtered

Result Type: Nursing Record/Note  
Service Date: November 12, 2008 4:23 PM  
Result Status: Authenticated  
Result Title: HMC RN Procedure Note v4  
Performed By: [REDACTED]  
Verified By: [REDACTED]  
Encounter info: H9876PCD20080911, HMC, Inpatient, 9/11/2008 -

## \* Final Report \*

### HMC RN Procedure Note v4

#### Procedure

##### Prior to Procedure:

Allergies assessed? Done.  
Consent obtained by physician? Done.  
Anticipated pain & anxiety addressed? Done.  
Wash hands? Done.  
Pre-Procedure Verification: Check patient ID x 2? Done, Active Time Out (all members present & focused)? Done,  
Mark/assess site? Done, Correct patient position? Done, Availability of special equipment? Not applicable, All  
syringes labeled with contents? Done.

##### Pt monitoring:

EKG: No.  
O2 Saturation: No.  
Vital signs q15 minutes during procedure: Yes.

#### Procedure Performed

##### Central Line insertion:

Start time: 11/12/2008 16:22:00.  
Stop time: 11/12/2008 16:30:00.  
Catheter type: Non-tunneled/non valved.  
Change over wire: No.  
Unit/Patient Location: 7E.  
Physician Inserting Line: Dr. Smith.  
Service: Surgery II.  
Lumens: double.  
Site: right.  
Location: subclavian.

During Procedure: Antiseptic application: Chlorhexidine prep - 2 minute scrub + 1 minute dry time, Pt covered w/full  
body sterile drape: Done, All involved directly with procedure wear: sterile gloves, sterile gown, mask, Catheter  
secured with: suture, If greater than 3 attempts - senior resident contacted: Not applicable, CXR to verify tip  
placement: Done, Sterile dressing applied: Transparent, Dressing dated and timed: Done, All lumens flushed with  
saline and capped with needleless device: Done.

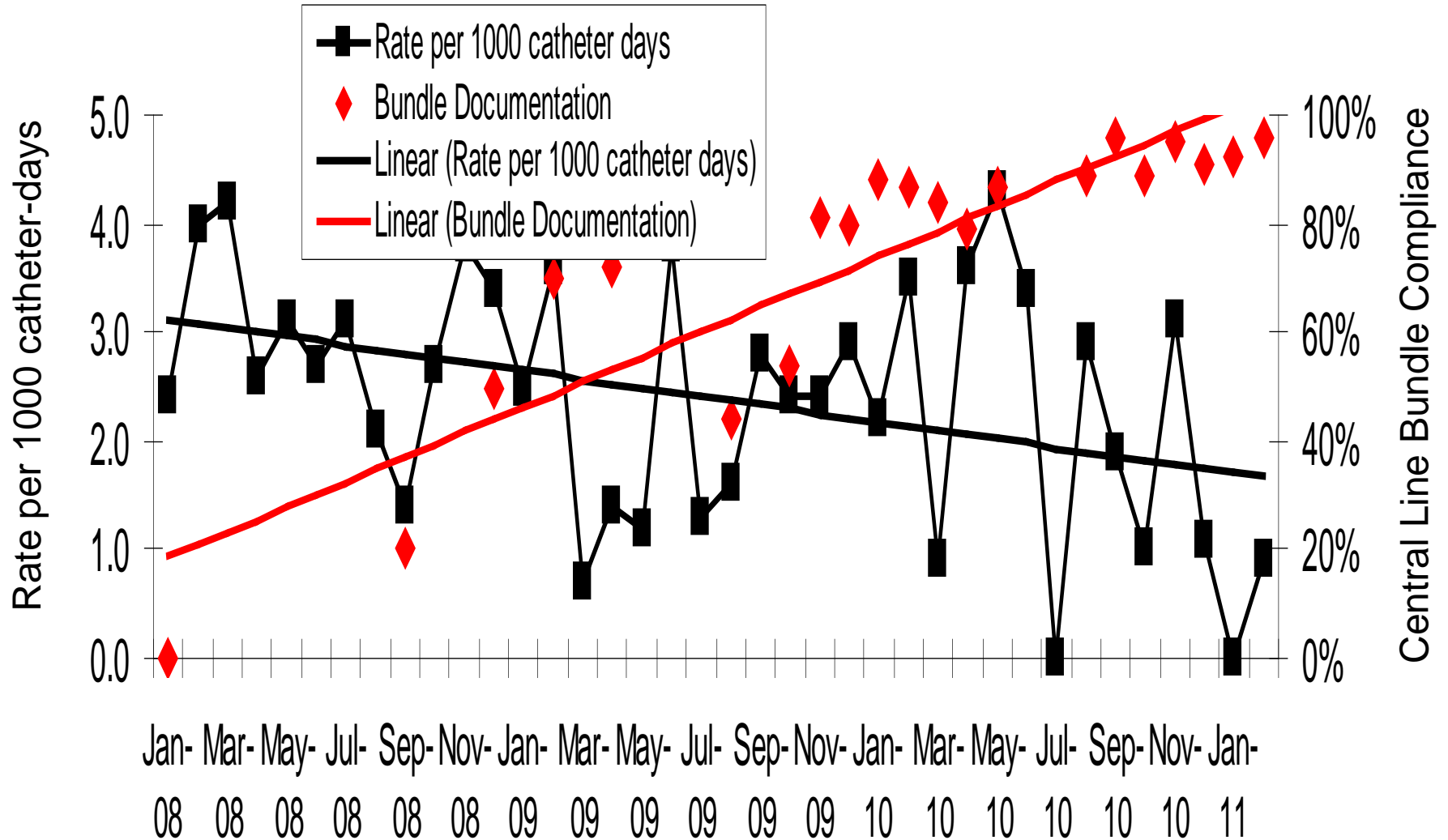
After Procedure: Central Venous Catheter Post Insertion Orders H1896 completed: Done.

# Compliance





# HMC ICU CLA-BSI and Bundle Documentation



Confidential

# Next Steps

- Ø Move beyond compliance audits and audit quality of time-out
- Ø Standardize across UW Medicine

# Quality of Time Out

Ø Observational audits to include

- Was it done
- Who led the time-out
- All elements addressed
- Input from all
- Quiet
- Full participation

# Summary

- Ø Physicians are actively searching out nurses to perform the time-out during bedside procedures
- Ø The development of the electronic Time-out/checklist has increased bundle and time-out compliance
- Ø The tool is user friendly, and documentation occurs in real time
- Ø We continue to standardized across the institution documenting the time out and procedures

# Thank You

Contact Information:

Ross Ehrmantraut, RN, CCRN

[rherma@uw.edu](mailto:rherma@uw.edu)

Liz McNamara, RN, MN

[lmac@uw.edu](mailto:lmac@uw.edu)