

Value Added Care New Mexico Regional TCAB Training

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UPMC TCAB Timeline 2003-2008



IHI Initiative--3 hospitals: Kaiser Permanente, Seton, UPMC Shadyside

Phase I



RWJ joins: Expanded to 13 hospitals across country Expanded to 5 more units at

UPMC Shadyside Expanded to UPMC South Side

Phase II

AONE takes on TCAB with new 60 sites Formal TCAB 10 completes



Schools of Nursing involved TCAB System Learning Community Patient & Family Advisory Council

Phase III

UPMC TCAB Outcomes

- UPMC TCAB looked at these measures
 - Staff vitality
 - Turnover
 - Time in Direct Patient Care
 - Value Added Care
 - Documentation
 - Codes A/C
 - Patient Satisfaction
- Process measures for over 280 prototypes
 - 34% spread off of pilot unit
- Staff Vitality Survey
 - 68% of vitality questions showed an increase













Anita L. Tucker and Steven Spear, Operational Failures and Interruptions in Hospital Nursing, Health Research and Educational Trust, 2006, pp. 1-20







No PDA?

- Two data collection tools:
 - Direct observation of work with categorization
 - PDA paper tool





RECORD DURING THE OBSERVATION LEVEL 1: TYPE Level 2: CATEGORY Time Record DURING THE OBSERVATION e of Men Yabia Non Yabia Categories as follow: DCDirect care, Circ. Time Location Activity e of Men Yabia Non Yabia Categories as follow: DCDirect care, Circ. Time Location Activity e of Men Yabia Non Yabia Categories as follow: DCDirect care, Circ. Location Activity e of Men Yabia Non Yabia Categories as follow: DCDirect care, Circ. Location Activity e of Men Yabia Non Yabia Categories as follow: DCDirect care, Circ. Location Activity e of Men Yabia Non Yabia Categories as follow: DCDirect care, Circ. Location Activity e of Men Yabia Non Yabia Categories as follow: DCDirect care, Circ. Location Activity Inc. Inc. Inc. Inc. Inc. Location Activity Inc. Inc. Inc. Inc. Inc. Location	Sample Observation Record											
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During the observation

- Record events as they occur
 - note timing and location
 - write down statements made & others involved
 - note particulars related to your purpose
- Avoid interrupting staff while they work
 - Exception: patient safety issues
- Jot down your questions, ask them later
- Make honest comments that 'connect' you to staff member's world ("It took over an hour......")
- Know that you may need to observe a typical work sampling multiple times

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		about patient complaint					g ino		
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3:10	411	Gave patient 3 medications	4	×			DC
3:14	•	P+ teaching: re: drop in blood sugar	2	X			DC
3:16	11	Instructed on calling for assistance	2	X			DC
3:18	COW in hallway	Charting meds and traching	6		X		DOC
3:24	Cor	naloto this soction transporter	1			X	WAS
3:25	afte	er the observation	3		X		IC
3:28	CON	Calling GE lab re: time of Dt test	2		X		TC
3:30	419	in to help another RN move pt	4	X			DC
		from carrier to bed					
3:34	410	in to tell patient about colonisscopy timina	1	X		- 1	DC
3:35	410	explained detail of test to patient	3	X			DC
3:38	RNStation	chart preparation for ot going to test	2		X		DOC
3:40	RNStation	2 Dage to MD for order clarification	2			X	WAS
3:42	Multiple pation	looking for IV pole with pump	6			X	WAS

Analysis of the Observation Tally number of minutes spent on each activity LEVEL 1: Assign activities into <u>TYPE</u> of work grouping: VALUE ADDED: transforming goods or services to meet a patient need; what a patient would pay for NECESSARY: preparatory steps required to provide value added care; what a patient may not recognize as important NON VALUE ADDED: anything that does not add value to the final product or service; what a patient would clearly recognize as not important

Analysis Continued

3. LEVEL 2: Assign each activity into a <u>CATEGORY</u> of work grouping

- A. **Direct Care**: tasks completed in presence of and to the patient
- B. Indirect Care: necessary work to meet a patient's need; typically not done in presence of patient
- c. Documentation: charting
- D. Administrative: in-services, teaching students/coworkers, bed control, meetings, paging caregiver,
- E. Personal: breaks, personal calls, lunch
- F. **Waste:** retrieving equipment/supplies, waiting, looking for information, supplies, or people
- G. Other: everything else



- Tally number of minutes for each activity based on both TYPE and CATEGORY of work
- Tally total number of minutes in each type and category grouping across entire observation
- 6. Divide by total number of minutes in observation to obtain percentage

IHI Paper Method

- •1. List the names of nurses for each shift on a deck of cards
- Randomly select one card per shift
- •3. Notify selected nurse at beginning of shift that he/she has been selected
- •4. Handout Worksheet to nurse
- •5. Select RANDtime for nurse (8 or 12 hour shift)
- •6.Signal nurse for each random time
- •7. At end of shift, nurse turns in completed worksheet

 $\bullet 8.$ At end of month, total the occurrences in each category and enter in totals in Worksheet

•9. Report monthly: % time in value added work, necessary work, non-value added work to team

Options for Observation

- Assign an observer to follow a nurse and record nursing activity at a designated rate, such as every five minutes. Observations may be customized for each unit. Three examples of how to accomplish this are as follows:
 - Observe a nurse for an hour per day, recording observations every five minutes. Rotate the hour each successive day until all 24 hours are observed over a month.
 - Observe a nurse for four hours, collecting data every five minutes, and repeat six times a month until 24 hours are covered.
 - Observe an entire shift.













Types of Waste1. Defective products2. Overproduction3. Waiting4. Transportation5. Inventory6. Motion7. Excess Processing



Value-Added Example: Admission Team

Problem

- Admissions were seen as an add on to a nurses work
- Observed to admit a patient it could span over 2 ½ hours
- Inconsistent documentation of key assessment information

Solution

 Specify admission work and dedicate a team to this work only



Supplies at the Bedside at ThedaCare's Appleton Medical Center

- Problem: nurses spend considerable nonvalue-added time hunting and gathering supplies and equipment. The team documented that nurses left patients' rooms 56 times during a 24-hour period to retrieve supplies and equipment.
- TOC: Relocated supplies, linens, and medications in or near patients' rooms. They moved about 85 percent of the supplies generally needed into the room and eliminated the central storage room.
- Outcome: Reduced the time spent by the nursing staff in hunting and gathering supplies and equipment by four hours per nurse per shift, and they decreased the time spent by nurses entering and leaving patients' rooms by 75 percent.



4 Main – UPMC Shadyside: Grab n' Go Bags

- <u>Problem</u>: On average 8-12 mislabeled Nurse draw lab samples every month. Via observation, 4M identified 2 issues around the mislabeling of the specimens: time to gather supplies, forgetting to compare specimen label to patient's ID band.
- Solution: 4M came up with "Kit", which includes all needed supplies for blood draw and a visual cue to remind RN to check label against ID band.
- Outcome:
 - Saved RN steps: 96 steps pre-kit compared to 18 steps post-kit
 - Saved RN time: 8 min pre, vs 4 min post

















Number Exercise



Why do a 5S?

- Stabilizes the system.
- Makes problems visible helps you see improvement opportunities.
- Organizes the work environment according to your needs which....
 - Reduces work flow problems and interruptions.
 - Enhances efficiency and productivity.
 - Ensures greater quality and safety.



- *Think About* How does your space help or hinder you from achieving ideal patient care?
- Need a Clear Plan
 - What area will you 5S?
 - When will you do the 5S?
 - Who will 5S? Leadership, front line staff, secretarial help, IT, EVS
 - Who will gather supplies ? Cleaning supplies, label maker, trash bags, gloves, signs, etc.
 - Where will items you don't need go?

What do you need for a successful 5S?

- Tips-
 - Before you start, take pictures of the area you plan to 5S.
 - Make a log of your changes as you go.
 - Involve the front-line staff who know the work!
 - Establish a "holding area" for things that you aren't sure what to do with.
 - Think outside the box how can we set up our workplace to ensure we can provide ideal care?

Sort and Red Tag

- Identify unnecessary items and "red tag" them. Ask the following questions:
 - Is this item needed?
 - If it is needed, is it needed in this quantity?
 - If it is needed, does it need to be located here?
- Leave the bare essentials



Red Tag Process

- Literally putting red tags on items that need to be evaluated as being necessary or unnecessary
- Each staff member will be given red tags
- Making the Red Tag
 - Reason why a red tag was attached to the item
 - Throw it away, return, fix ,return or send to the appropriate unit
- · Complete and attach to item
- Only bare essentials remain after 'Red Tag' process



Red Tag Holding Area (Sort)

- This is a protection against removal of items that may be mistakenly identified as unneeded
- Set up a holding area for temporarily locating red tagged items
- Transfer red tagged items to hold area daily



5S Evaluation Process (Sort)

- Evaluation Team/Unit Director
 - Evaluate red-tagged items
- Possibilities for red tagged items:
 - Throw away
 - Give away
 - Return to vendor
 - Use somewhere else in the hospital
 - Store in a long term area













Importance of Visual Cues

- **'Visual controls'** can easily communicate how work should be carried out, for example:
 - Where an item belongs.
 - How many items belong there.
 - What is the standard procedure.
 - What is the status of the work in process.
 - When to order more supplies.















Making it Shine

Need to know...

- How are you going to do this given staffing and patient needs?
- What are you going to focus on?
- Who is doing what task and what area?
 - Cleaners
 - Label makers
 - Repairers correct defects immediately
 - Trash removal
 - Laminators



Standardize

- Goal of Standardizing:
 - To make sure that the first three pillars (Sort, Set in order, Shine) are regularly maintained.
 - A work structure must be developed to support the new practices and turn them into habits.
 - Integrate 5S duties into regular work duties.
 - Check on how well 5S conditions are maintained.



What if we aren't sustaining?

- Find and address the root cause by using 5 Whys. For example:
 - Why do unneeded items accumulate?
 - Why does equipment get put back incorrectly?
 - Why do certain items remain dirty?
- Is the responsibility for maintaining system clearly designated?
- Is the flow designed to meet the needs of front-line workers?





□ Involvement of cleaning service and/or IT support?































Key Challenges

- Changes are small
- Changes take time to become cumulative
- Changes are not always show stoppers
- Changes can feel insignificant to some peer Senior Leaders
- Business Case is long term
- Business Case is VERY REAL
 - Turnover
 - Percentage of Time in Direct Patient Care
- Change is felt at a unit level first not hospital wide





