

Walk This Way

Key Steps to an Effective Patient Safety Culture

What Are Your Obstacles? And How to Remove Them

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Promoting Professionalism: Addressing Behaviors that Undermine a Culture of Safety, Reliability, and Accountability

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Sometimes you just recognize a disturbance in the force...

- A few seemingly random notices of claim...
- A bump in unsolicited patient complaints
- A few staff complaints



Pursuing Reliability

Definition: "Failure free operation over time... effective, efficient, timely, pt-centered, equitable"

Requires:

- Vision/goals/core values
- Leadership/authority (modeled)

A safety culture = willingness to report and address
Psychological safety

-Trust

Institute of Medicine. *Crossing the Quality Chasm: A New Health System for the 21st Century*. Washington, DC: National Academies Press; 2001; Nolan et al. *Improving the Reliability of Health Care*. IHI Innovation Series. Boston: Institute for Healthcare Improvement; 2004; Hickson et al. Chapter 1: Balancing systems and individual accountability in a safety culture. In: Berman S., ed. *From Front Office to Front Line*. 2nd ed. Oakbrook Terrace, IL: Joint Commission Resources; 2012:1-36.



Professionalism and Self-Regulation

- Professionals commit to:
 - Technical and cognitive competence
- Professionals also commit to:
 - Clear and effective communication
 - Being available
 - Modeling respect
 - Self-awareness
- Professionalism promotes *teamwork*
- Professionalism demands self- and group regulation

Hickson GB, Moore IN, Pichert JW, Benegas Jr M. Balancing systems and individual accountability in a safety culture. In: Berman S, ed. *From Front Office to Front Line*. 2nd ed. Oakbrook Terrace, IL: Joint Commission Resources;2012:1-36.



Post-op infection rates above the national average





- A multidisciplinary team was charged to assess and evaluate:
 - Current performance
 - Opportunities for improvement

– Plan development

Team name/ unit QSRP

Date 2/21/14 -

Project Description Colo rectal surgery

Project Bundle Rating Scale		Need (1)	Actively developing (2)	Strength (3)	Comments	
	Leadership Commitment					
ple				3		
	Dedicated Team				Seeking VUH data analyst to join team.	
Peo			2			
	Champion					
				3		
	Alignment with Goals					
				3		
5	Policies					
zatio				3		
gani	Model for Interventions and Planning					
ō				3		
	Resources for Teams					
				3		
	Measurement and Surveillance Tools					
tem				3		
Sys	Process to Review Data				Working to add results to Quality Dashboard.	
ning			2			
Lear	Multi-level Professional Training				Developing training and roll-out.	
			2			
Sun	n columns	A 0	B 6	C 21	Project Score Guide:	
					> 2.3 : High likelihood of success.	
Pro	piect Score (column total (A+B+C)/1)	0)		27	1.9 - 2.3 : Needs additional development	
Project Score (column total (A+B+C)/10)				2.7	< 1.9 : High risk of failure	
Searing Bubric			Step 1: Wit	h your team. Stop 2: Add up all Stop 2: Compare		
1 (Need) = Not in place, Not confirmed, Conflict exists		score the cu	urrent status of your item scores score to the			
2 (Actively developing) = Creates some concern, Could be inad		d be inadequat	e	of each iten	n using the 3 and divide the Project Score	
3	3 (Strength) = Fully developed, All key pieces in place			point scale.	total by 10. Guide.	
	Hickson GB, Moore IN, Pichert JW, Benegas	Jr M. Baland		and individua	l accountability in a safety culture. In:	
	Berman S, ed. From Front Office to Front Line. 2nd ed. Oakbrook Terrace, IL: Joint Commission Resources; 2012:1-36.SIU					



Standardization of care for the colon surgery patient:

- Communication of expectations
- Evidence-based 'Best Practice' bundle 9 elements:
 - bowel prep
 - wound protector
 - change gown and gloves
 - etc.
- Education across service lines
- Ongoing monitoring and compliance measurement
- Monthly review and analysis of surgical site infection
- Problem Solved



So everyone responded in a professional way?

Well not exactly



An Opportunity? Insight?

From electronic event reporting system:

A nurse reports... Dr. XX was performing a transverse colon resection. I stated, "Dr. XX, you need to re-gown per our colorectal bundle".

Dr. XX replied, "I don't agree with that element of the bundle and I'm not stopping now to change gowns and gloves." Dr. XX continued with procedure.



Does the reported behavior represent a threat to safety?

- 1. Strongly Agree
- 2. Agree
- 3. Uncertain
- 4. Disagree
- 5. Strongly Disagree





In your microsystem, what % of the time would someone report this event to a responsible party or through an established event reporting system?

- 1. 0%-20%
- 2. 20%-40%
- 3. 40%-60%
- 4. 60%-80%
- 5. 80%-100%





- 1. 0%-20%
- 2. 20%-40%
- 3. 40%-60%
- 4. 60%-80%
- 5. 80%-100%





The Critical Question

Do you have a reliable and nimble plan to address Dr. X? If not, you have a problem.

You need a plan (people, process and technology).

Infrastructure for Promoting Reliability & Professional Accountability (PA)

- 1. Leadership commitment (will not blink)
- 2. Goals, a credo, and supportive policies
- 3. Surveillance tools to capture observations/data
- 4. Processes for reviewing observations/data
- 5. Model to guide graduated interventions
- 6. Multi-level professional/leader training
- 7. Resources to address unnecessary variation
- 8. Resources to help affected staff and patients

Hickson GB, Pichert JW, Webb LE, Gabbe SG. A complementary approach to promoting professionalism: Identifying, measuring and addressing unprofessional behaviors. Acad Med. 2007 Nov;82(11):1040-1048. Hickson GB, Moore IN, Pichert JW, Benegas Jr M. Chapter 1: Balancing systems and individual accountability in a safety culture. In: Berman S, ed. From Front Office to Front Line. 2nd ed. Oakbrook Terrace, IL: Joint Commission Resources;2012:1-36.



Interfere with ability to achieve intended outcomes

Create intimidating, hostile, offensive (unsafe) work environment

Threaten safety (aggressive or violent physical actions) Violate policies (including conflicts of interest and compliance)



Excepts from Vanderbilt University and Medical Center Policy #HR-027, 2010



Policies will not work if behaviors that undermine a culture of safety go unobserved, unreported and unaddressed



Reports of Unprofessional Behavior

RN: ...refused to do a time out before surgery, said, "We're all on the same page here."

Patient: Dr. ____ misdiagnosed condition. Did no biopsy to make sure he was treating what he thought he was treating.

RN: Dr. XX replied, "I don't agree with that element of the bundle and I'm not stopping now to change gowns and gloves."



VUMC Complaints by Type Jan 1, 2013 – Dec 17, 2013



Care and Treatment

- Communication
- Concern for Patient/Family
- Accessibility and Availability
- Money or Payment Issues
- Safety of Environment

Total number of complaints = 3595





This material is confidential and privileged information under the provisions set forth in T.C.A. §§ 63-1-150 and 68-11-272 and shall not be disclosed to unauthorized persons.



Promoting Professionalism Pyramid



²² Adapted from Hickson, Pichert, Webb, Gabbe. Acad Med. 2007. ©2013 Vanderbilt Center for Patient and Professional Advocacy



So we need to sit down and share a cup of coffee with...



- 1-6%+ hosp. pts injured due to negligence
- ~2% of all pts injured by negligence sue
- ~2-7 x more pts sue w/o valid claims
- Non-\$\$ factors motivate pts to sue
- Some physicians attract more suits
- High risk today = high risk tomorrow

Sloan et al. JAMA 1989;262:3291-97; Brennan et al. NEJM 1991;324: 371-376; Hickson et al. JAMA 1992;267:1359-63; Bovbjerg & Petronis. JAMA 1994;272:1421-26; Hickson et al. JAMA 1994;272:1583-87.



Patient Complaints

While asking Dr. ____ about my diagnosis, he responded that my questions were annoying...wouldn't listen and kept speaking over me...

We were so rushed that Dr. ____ couldn't even explain why they were recommending this treatment plan for my mom over other types of treatments...unacceptable...

Dr. ____ left me, walked down hall, said to nurse, "This pt has completely fouled up my day... give her some info, and get her out of here." I heard everything Dr. ___ said.



Academic vs. Community Medical Center Physicians —Academic Med Ctr - Community Med Ctr



Hickson GB et al. JAMA. 2002;287(22):2951-7. Hickson GB et al. So Med J. 2007;100:791-6.



Incurred Expense By Risk Category

Predicted Risk Category*	# (%) Physicians	Relative Expense*	% of Total Expense	Score (range)
1 (low)	318 (49)	1	4%	0
2	147 (23)	6	13%	1 - 20
3	76 (12)	4	4%	21 - 40
4	52 (8)	42	29%	41 - 50
5 (high)	51 (8)	73	50%	>50
Total	644 (100)		100%	

* In multiples of lowest risk group



The PARS[®] Process

Share comparative feedback with tiered interventions using the *Pyramid for Promoting Reliability and Professional Accountability.*



28 Adapted from Hickson, Pichert, Webb, & Gabbe. Acad Med. 2007. ©2013 Vanderbilt Center for Patient and Professional Advocacy



Sample Letter to High-Risk Colleague: Rationale and Standings

February 3, 2014							
To:	XX, MD						
From:	Patient Complaint Monitoring Committee XXX Health System						

Re: Patient Complaints

XX, MD, chair of the Patient Complaint Monitoring Committee (PCMC), has asked me provide feedback to XX Health System (XXX) physicians who have been associat relatively high numbers of patient complaints, as reported to the Service Excellent A recent analysis of XXX patient complaints places you among this group like to share with you the complaint data with which you have been unced. Please be assured I am coming to you as a peer in a spirit of confidential, collect awareness.

Patient complaints are monitored for several reasons. Patient satisfaction is integral to achieving quality and safety in health care. In contrast, dissatisfaction undermines patient adherence with medical treatment plans, outcomes of care, and patients' willingness to stay with a practice. Furthermore, physicians associated with high numbers of complaints are at increased in medical malpractice claims.

XXX is committed to providing the best possible combination of technical and interpersonal patient care, fostering a safe, caring environment, and reducing our collective risk of avoidable claims. To this end, the PCMC was formed under the premise that XXX physicians would want to know if they were associated with a disproportionate share of patient and family complaints. (See *The PARS Program at XXX*, enclosed).

The complaint report analysis was performed by the Center for Patient and Professional Advocacy at Vanderbilt (CPPA), utilizing CPPA's Patient Advocacy Reporting System[®] (PARS[®]). During the four year audit period from December 1, 2009 through November 30, 2013, you were associated with 15 complaint reports. Risk scores were calculated for every physician at XXX and then compared to national and local peer group scores. Forty-two percent (42%) of the 6,350+ surgeons in the national PARS[®] database had no patient complaints over four years. In comparison, your risk score stood out within the highest tier; specifically, it was higher than that of 99% of all surgeons in the database. Compared with other XXX physicians, your risk score is 6th highest among physicians in Surgery and 8th highest of all physicians is both Medicine and Surgery, placing you at increased risk for medical malpractice claims.

...high numbers of patient complaints...undermines outcomes...increased risk for malpractice claims...

...committed to provide best care...

...you were associated with 15 complaint reports...42% of the 6350+ surgeons in national PARS[®] database had no complaints...

...your risk score is > 99% of surgeons nationally ...2nd highest in [organization]...



Local Physician Group Comparison





*Stimson CJ et al. Medical malpractice claims risk in urology. *J Urol.* 2010 May;183(5):1972-1976. **Moore IN et al. Rethinking peer review. *Vanderbilt Law Review*. 2006 May 1;59:1175-1206.



Since FY 2000, PARS[®] has identified >1020 U.S. physicians as high risk





Pichert JW et al. An intervention model that promotes accountability: Peer messengers and patient/family complaints. Jt Comm J Qual Patient Saf. 2013 Oct;39(10):435-446.



Our latest work:

Patient Complaints & Surgical Outcomes



Risks

NSQIP and Pt Complaints

Question: Do Periop Risk Factors moderate the relationship between Patient Complaints and Surgical Outcomes?

Preop **Risk Factors**

ASA Class

Priority Status

Wound Class

PARS® Categories

Care & Treatment

Communication

Complaints

Concern for Pt/Family

Accessibility

atient (Billing w/C&T concern **Surgical** Occurrences

Intraoperative

Wound

Urinary

Outcomes **CNS**

Respiratory

Other



Results: Significant relationships between Occurrences & Complaints

- 66 surgeons; 10,536 procedures
- Correlations between pt complaints and occurrences:

Occurrences	Correlation with Patient Complaints		
Intraoperative	0.58, p<.001		
Wound	0.60, p<.001		
Urinary	0.61, p<.001		
Respiratory	0.59, p<.001		
Other	0.55, p<.001		

The relationship is moderated by perioperative risk





Analysis controls for # cases sampled. Catron, Guillamondegui et al. Submitted, 2014



Patient Complaints Moderate the Relationship Between Risk Factors and Surgical Outcomes *





So how did the SSI work go?



Colorectal Bundle Tracking

Nine Bundle Elements	Aug 2013	Oct 2013	Dec 2013	Feb 2014
CHG Wipes ordered %	53%	49%	63%	100%
Bowel prep ordered %	77%	91%	100%	100%
Oral ABX ordered %	66%	64%	85%	100%
PreOp glucose done%	33%	42%	83%	82%
Wound Protector %	25%	35%	100%	100%
Bowel isolation technique %	48%	23%	90%	100%
Change gown and gloves %	33%	26%	90%	100%
Post Op O2 documented %			82%	80%
O2 ordered %				70%



Moving in the Right Direction





The Right Balance

Fixing Faulty Systems

Promoting Professional Behavior

Hickson GB, Moore IN, Pichert JW, Benegas Jr M. Balancing systems and individual accountability in a safety culture. In: Berman S, ed. From Front Office to Front Line. 2nd ed. Oakbrook Terrace, IL: Joint Commission Resources; 2012:1-36.SIU



www.mc.vanderbilt.edu/cppa



So how do you ensure leadership commitment/agreement with your plan?



So how do you ensure leadership commitment/agreement with your plan?

It's not YOUR plan, it is OUR plan

Project Description Promoting Professionalism

Project Bundle Rating Scale		Need (1)	Actively developing (2)	Strength (3)	Comments	
	Leadership Commitment				Need another meeting with CMO and CEO	
People		1				
	Dedicated Team				Seeking VUH data analyst to join team.	
			2			
	Champion					
				3		
	Alignment with Goals					
				3		
ation	Policies			3		
Organiz	Model for Interventions and Planning			3		
	Resources for Teams			3		
	Measurement and Surveillance Tools					
em				3		
Syst	Process to Review Data				Working to add results to Quality Dashboard.	
ning			2			
Lear	Multi-level Professional Training				Developing training and roll-out.	
			2			
Sum	i columns	A 1	B 6	C 18	Project Score Guide:	
					> 2.3 : High likelihood of success.	
Project Score (column total (A+B+C)/10		D)		2.5	1.9 - 2.3 : Needs additional development< 1.9 : High risk of failure	
Sco	oring Rubric			Step 1: With score the cu	h your team, Step 2: Add up all Step 3: Compare	
2	(Actively developing) = Creates some concern, Could	d be inadequate		of each iten	n using the 3 and divide the Project Score	
3	(Strength) = Fully developed, All key pieces in place			point scale.	total by 10. Guide.	
L				L		
	Hickson GB, Moore IN, Piche	rt JW, Bene	gas Jr M. Bal	ancing systen	ns and individual accountability	
	in a safety culture. In: Berma	an S, ed. Fro	om ⊦ront Offi	ce to ⊦ront Li	ne. Zna ed. Uakbrook Terrace,	

IL: Joint Commission Resources; 2012:1-36.SIU



Building Consensus

- How do you get consensus about addressing the human element when there may not be national standards?
- You ask a few questions...

"Dr. ____ entered the room without foaming in...proceeded to touch area with purulent drainage...I offered a pair of gloves...he took them and dropped them into the trash can."





- 1. Strongly agree
- 2. Somewhat agree
- 3. Not sure
- 4. Somewhat disagree
- 5. Strongly disagree



Do you want to see and deliver complaints vs designate a trusted colleague to review and deliver?

- 1. Just me
- 2. Both trusted colleague and me (shared model)
- Trusted colleague, who shows me any report felt to be "special"
- Just trusted colleague until there's a pattern
- 5. Something else





Co-Worker Observation Reporting System: VUMC Physicians – 3 years





How many non-mandated reports over 36 months suggests a need for chair review and an "awareness" intervention with an individual physician?





Co-worker Observation Reporting System Process



Professional conduct concern submitted by clinician/staff per reporting policy



After risk mgt. review, report is shared with leader

Trained messenger shares report with clinician



3

CPPA codes all reports/ identifies patterns based upon leader determined guidelines

Awareness intervention folders prepared for meetings by messengers



5

CPPA tracks progress and shares subsequent reports with leader



FY 2014 results addressing professionalism

1900 Clinicians





Professional Accountability

Who is this man?



He had a good idea...



VUMC Hand Hygiene Adherence (%) July 2008 – February 2009





A Call for Clean Hands: Vanderbilt Hand Hygiene

Tom Talbot, MD, MPH Nancye Feistritzer, RN, MSN Titus Daniels, MD, MPH Claudette Fergus, RN, BA Gerald Hickson, MD, the Hand Hygiene Committee and the Leadership Review Task Force



Talbot TR, et al. Sustained improvement in hand hygiene adherence: Utilizing shared accountability and financial incentives. Infect Control Hosp Epidemiol. 2013; 34(11, Nov): 1129-1136



VUH Unit Hand Hygiene Compliance July 1, 2010 – November 30, 2011





Promoting Professionalism Pyramid



⁵⁷ Adapted from Hickson, Pichert, Webb, Gabbe. Acad Med. 2007. ©2013 Vanderbilt Center for Patient and Professional Advocacy



Awareness Letter

	VANDERBILT 💱 UNIVERSITY MEDICAL CENTER	I
November	FIRST LETTER	I
To:	[name of manager] [name of medical director]	I
From:	Thomas R. Talbot, MD, MPH Chair, Hand Hygiene Pillar Goal Committee	I
	Gerald B. Hickson, MD Director, VUMC Clinical Risk and Loss Prevention	I
CC:	[medical department chair] [quality and patient safety directors (physician and hospital/clinic)]	Y
Re:	Hand Harrison Compliance, Loud 1 "Amounts"	
We are a	Annu Hygiene Computance - Level 1 Awareness I committed to minimizing the risk of healthcare-associated infections. Performing moli dish areas i instantiat actions may not hold to another the more of these infections in moli dish areas in instantiat actions may not hold to another the moli of these infections.	1
We are al hand hygi our patien A recent a services w	And Hygiele Compliance - Level 1 Awareness Il committed to minimizing the risk of healthcare-associated infections. Performing ene is the most important action we can take to reduce the spread of these infections to its and ourselves. For FY11, VUMC's reach goal for hand hygiene is 95% compliance. udit of hand hygiene observations places [Umt/Service Name] among those units or ith a low rate of compliance with hand hygiene. We are writing to share the data with	1
We are al hand hygi our patien A recent a services w you. The avera FY11-to-ć [month] 2 These rate compliance	And Hygene Complainte - Level 1 Awareness Il committed to minimizing the risk of healthcare-associated infections. Performing ene is the most important action we can take to reduce the spread of these infections to is and ourselver. For FY11, VUNC's reach goal for hand hygiene is 95% compliance. udit of hand hygiene observations places [Unit/Service Name] among those units or ith a low rate of compliance with hand hygiene. We are writing to share the data with ge compliance rate for all VUMC units was XX% is (month) 201X and YV% for late. Many units have achieved compliance rates above the average. up to BB%. For olX [Unit/Service Name] * compliance rate was XX%, and for FY11+to-date, YV%, s place [Unit/Service Name] * of X among VUMC units/services for hand hygience #.	1
We are al hand hygi our patien A recent a services w you. The avera FY11-to-c [month] 2 These rate complianc A membe may partn hygiene e staff. Info	Hand Hygiene Complainte - Level 1 Awareness II commuted to minimizing the risk of healthcare-associated infections. Performing ene is the most important action we can take to reduce the spread of these infections to is and ourselves. For FY11, VUMC's reach goal for hand hygiene is 95% compliance. udit of hand hygiene observations places [Unit/Service Name] among those units or rith a low rate of compliance with hand hygiene. We are writing to share the data with ge compliance rate for all VUMC units was XX% in [month] 201X and YV% for late. Many units have achieved compliance rates above the average. up to BB%. For 01X, [Unit/Service Name] *] of X among VUMC units/services for hand hygience a. compliance for all Committee team will contact you to schedule a time to meet so we et in achieving increased hand hygiene in your area. In the interim, a copy of the hand operation on how to improve hand hygiene compliance may also be found at comaterial to achieve the start of the start	

Bold, red font for demonstration only

We are all committed to minimizing the risk of healthcare-associated infections. Performing hand hygiene is the most important action we can take to reduce the spread of these infections to our patients and ourselves. For FY11, VUMC's reach goal for hand hygiene is 95% compliance.

For November 2010, *your area's* compliance rate was 35%, and for FY11-to-date, 47%.

A member of our Pillar Goal Committee team will contact you to schedule a time to meet so we may partner in achieving increased hand hygiene in your area.



- No dispensers...
- Dispensers in the wrong/inconvenient location...
- This special area has dispenser outside closed door but none inside...
- It's not our team, it's the
 - Consult physicians
 - Residents
 - Traveling nurses
 - Dietary staff, transporters...
- Many others



VUMC Quarterly HH Compliance June 2009 – Mar 2014



Talbot TR et al. Sustained improvement in hand hygiene adherence: Utilizing shared accountability and financial incentives. Infect Control Hosp Epidemiol. 2013 Nov;34(11):1129-1136.

Hand Hygiene Improvement Strongly Correlates with Low Infection Rates



Talbot TR, et al. Sustained improvement in hand hygiene adherence: Utilizing shared accountability and financial incentives. Infect Control Hosp Epidemiol. 2013; 34(11, Nov): 1129-1136



VUMC Infection Control Savings

Infection Type	FY 2010 Pre-HH Intervention	FY 2011 (# fewer infections)	Mean Attributable Cost/Infection*	\$\$ Savings Estimate
CLABSI	172	65 (107)	\$22,000	\$2,354,000
VAP	151	76 (75)	\$24,500	\$1,837,500
SSI	298	283 (15)	\$19,000	\$285,000
CAUTI-ICU	111	88 (<mark>23</mark>)	\$1,500	\$34,500
Totals	# Fewer Infections	220 *	Estimated Savings	\$4,511,000

*Estimated total reduced LOS = 2,584 days; Estimates based on data in: Perencevich, et al. SHEA Guideline. Raising standards while watching the bottom line: Making a business case for infection control. Infect Control Hosp Epidemiol. 2007;8:1121-1133.