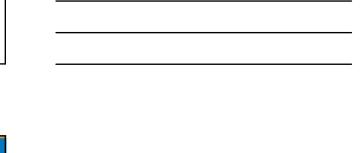








VHO



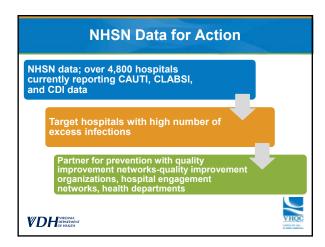
Objectives

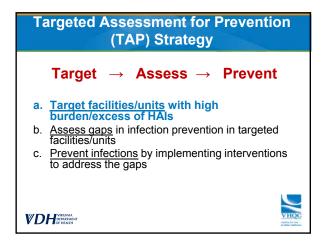
Goals today:

- a. Understand Targeted Assessment for Prevention (TAP) process
- b. Discuss how to run TAP reports and interpret the data
- c. Review CAUTI TAP assessment
- d. Share CAUTI TAP resources
- e. Learn from hospitals' perspectives about using the TAP strategy

VHOO

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Benefits of TAP Strategy

a. Focused approach to prevention

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- b. Within targeted facilities, excess HAIs mapped to unit level
- Cumulative attributable difference (CAD) is a concrete prevention goal linked to the standardized infection ratio
- d. Specific gaps in infection prevention identified through a standardized assessment of targeted units
- e. Implementation strategies customized to address gaps



		_		
TARGET NHSN TAP Reports	ASSESS	PRE	VENT	
TAP Reports bring together	Facility Type	CLABSI	CAUTI	CDI LabiD
data elements from other reports within NHSN:	Acute Care Hospital	~	~	~
Annual Survey Rate Tables	Long Term Acute Care Hospital	~	~	
SIRs Event-level information (CLABSI,CAUTI, and CDI only)	Inpatient Rehab Facility		~	

Cumulative Attributable Difference (CAD)

= # OBSERVED infections - (# PREDICTED infections * SIR_{goal})

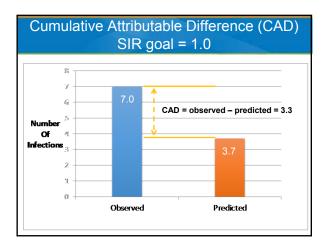
Standardized infection ratio $({\rm SIR})_{\rm goal}$ can be chosen based on goals of a group, state, organization, or national target

- a. Lower target SIR \rightarrow larger CAD ("excess" number of infections)
- b. NHSN uses HHS target SIRs with option to customize

CAD is the number of infections needed to prevent to reach the ${\rm SIR}_{\rm goal}$









Standardized Infection Ratio (SIR)

a. The SIR is a measure that compares the number of HAIs reported to NHSN to the number of infections that would be predicted based on national baseline data:

Observed # of HAIs
SIR = ----Predicted # of HAIs

b. SIR Interpretation:

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- a. 1: same number of infections reported as would be predicted given the US baseline data
- b. >1: more infections reported than what would be predicted given the US baseline data
- c. <1: fewer infections reported than what would be predicted given the US baseline data

VHOC

		2	CAD vs. SIR						
Metric	Calculation	I	Purp	ose			Limitati	ons	
CAD	Observed – (Predicted*SI	IR _{goal})	Prioritization metric. Identifies facilities and units w/ the highest burden of excess infections.				Influenced by exposure size (i.e., a larger hospital w/ many patient days will likely have a higher CAD than a small hospital).		
SIR	Observed Predicted		meas over t differe	Comparative metric. Summary measure used to track HAIs over time. Adjusts for differences among risk exposure categories.			SIRs not NHSN if < infections	<1 predio	
Hospita Type	l Catheter Days	Obse Even		Predicted Events	SIR_goal		edicted IR _{goal}	SIR	CAD
Major Teachin	9,000 g	3	6	12	0.5		6	3	30
Rural Hospital	1,497 I	6	6	2	0.5		1	3	12



Running TAP R	eports
Reserved Not Object Difference Associated ((M2)) Housian Difference Associated ((M2)) Housian	CLABSI CAUTI CDI
Eldearcad Dify Contain Output Diratished Output	VHOC

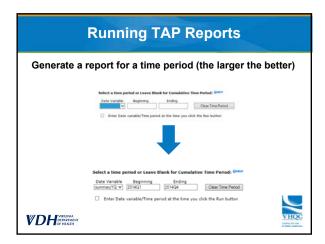


Running TAP Reports Choose TAP Report from CDC Defined Output from healthcare setting of interest a. Run – Default TAP Report b. Modify – Customized Report.

- a. Time period of Interest
- b. Cumulative Attributable Difference (CAD) Multiplier

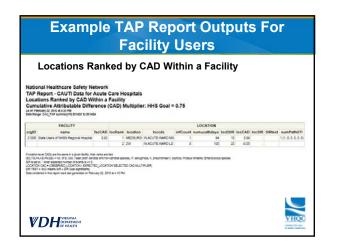
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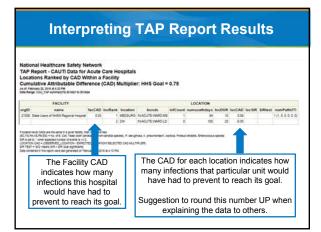
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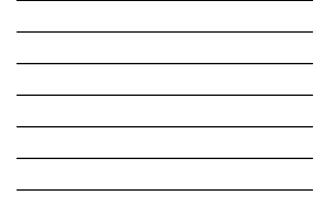


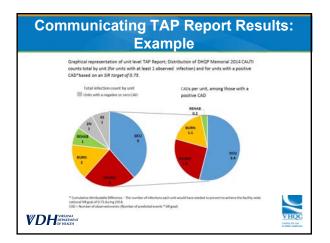
Select a time period or Leave Black for Cumula Date Variable Beginning Enderg	tive Time Period: 9464	CAE) Multiplier
Enter Date variable/Time parted at the time y Specify Other Selection Criteria: Genr Desc Criteria: Genr		base	ault NHSN goals are ed on HHS 5-year HAI uction targets
v	~	•	CAUTI SIR _{goal} : 075
		•	CDI SIR _{goal} : 0.70
			CLABSI SIR _{goal} : 0.50
Other Options:	Print, Variable Reference Lis		
Cumulative Attributable Difference (CAD) Multi Seurce: 1915 Grainer	plier		
HHS goals: http://health.c			

Helpfu	l Hints for	Running TAP Rep	orts
a. If	Dutput format is another format, (e. ientation to "Lands	g., RTF) is selected, change the	
Use of v column		will provide more descriptive	9
column	lieaders		
	Select output fo	ormat:	
	Output Format:	HTML ¥	
	Use Variable	e Labels	
	ent 1		VHQC

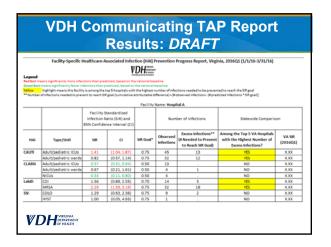














Polling Question

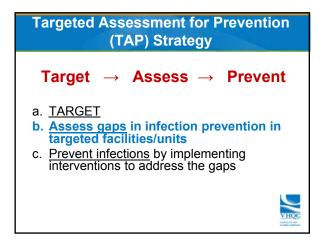
When you ran your 2015 CAUTI TAP report, were the results what you expected?

a. Yes

- b. No; the report highlighted excess infections in units that I did not anticipate
- c. I did not have the opportunity to run the TAP report







The CAUTI Initial Assessment

- A large portion of the TAP strategy is to perform a baseline assessment of staff knowledge in hospital CAUTI prevention programs before instituting new protocols and education.
- b. This assessment is designed to capture your hospital's current state as it relates to CAUTI prevention.



The CAUTI Initial Assessment

- a. This initial assessment tool may be used to determine potential gaps in infection prevention in facilities with excess numbers of CAUTIs (positive CAD).
- b. This tool may also be used to validate effectiveness of new education and/or practice.
- c. Sustain the gain!



The CAUTI Initial Assessment

- a. This assessment can be administered hospital– wide to gain knowledge of all areas and staff.
- b. Perform assessment on a single unit if you have an outlying unit with high CAD.
- c. Use assessment after participating in a program such as CUSP to validate effectiveness of the program.



The CAUTI Initial Assessment

All staff levels needed for accurate results

- a. Physicians
- b. Leadership
- c. Staff nurses, and unit managers
- d. Nursing assistants
- e. And others, that have access to patients with indwelling urinary catheters
- f. Include staff from ALL shifts

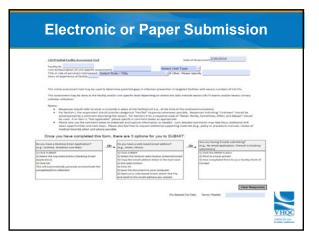


The CAUTI Initial Assessment

Options for distributing the assessment

- a. SURVEY MONKEY (most popular)
- **b.** Electronically: The PDF is set up to be emailed to VHQC once the submit button has been selected. (Check Firewall)
- c. Hard copy (paper): The designated project Point of Contact (POC) can print the assessment, and hand it out to staff who will return it to the hospital POC. (VHQC will pick up or provide postage for surveys)

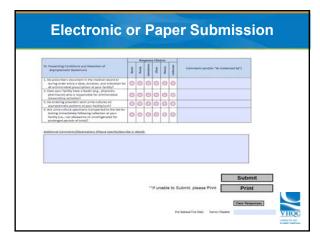


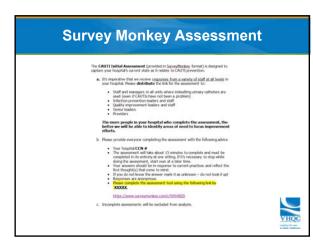




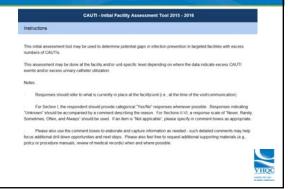
1. General Infrastructure, Capacity, and Presesses	Response	Comments (and/or "Ai Evidenced By")
1. Is senior leadership involved in GAUTI prevention activities?	O'Yes O'No O'Link	
2. Is unit-level leadership involved in GAUTI prevention activities?	Over One Ounk	
 Does your facility currently have a team/work group facusing on CAUTI prevention? 	Over One Olina	
 Does your facility have a staff person with dedicated time to coordinate CAU11 prevention activities? 	Over One Oura	
 Does your facility have a nurse champion for CAUTI prevention activities? 	Ores One Ouns	
 Does your facility have a physicien champion for CAUTS prevention activities? 	Over One Ours	
Does your faility transitalf ani		
 Asoptic technique for unnary catheter insertion (for all staff who are given responsibility for inserting indivelling unnary catheters)? 	Over One Ouve	
 Proper urinary catheter maintenance procedures (for all staff who are given responsibility for indivelling urinary catheter sare)? 	OTHE OTHE OUTA	
 Use of bladder ultrajound scenners (for all staff who use them)? 	Gres One Ounk	
 Proper indwelling unnery catheter handling and placement of the drainage bag (for all staff involved in moving patients including transpart personnel)? 	Over One Ours	
 Appropriate indications for unite culturing (for ordering providers)? 	Over One Oliva	
arts News	and knowledge to partness a proceed	process of anisotrop that freedblaces performed demonstrates the large property and according to facility standards and policies; must be required abase over of personnel performing a structure processor of the partner.
I.2. All staff who insert indexiling unnery satheters to ansure proper another technologie: A. Upon here/during orientation? B. All least annually?	Over One Ours	







Survey Monkey Assessment

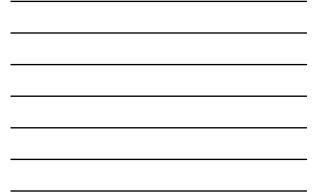


Survey Monkey Assessment

1. Facility Nam	16	
2. Date of Ass	essment:	
Date/Time		
3. Facility CCN	e :	
4. Unit IDidesc	ription (if unit-specific assessment):	
5. Unit Type:		
O KOU		
0 80		
O WARD		
O OTHER		
O NA		VHQC

Tills of Pols of norman	Interviewed (if more than a	ne role, please indicate here)
le/Role #1	interviewed (if more than of	ne role, please indicate here).
le/Role #2		
SUITE TA		
Title or Role of person	interviewed	
	\$	
her (please specify)		
7. Title or Role of person inter	viewed	
Nurse		
Nurse Manager / Supervisor Certified Nurse Assistant	-	
Nurse Manager / Supervisor	-	

Survey I	Monkey Assessme	ent
САИП	- Initial Facility Assessment Tool 2015 - 2016	
THANK YOU FOR YOUR TIME!! VHQC www.vhqc.org		
	Prev Done	
		VHOO
		VI



Instructions for Staff

- a. Your hospital CCN #
- b. The survey will take about 15 minutes to complete and must be completed in its entirety at one sitting. If it's necessary to stop while doing the survey, start over at a later time.
- c. Your answers should be in response to current practices and reflect the first thought(s) that come to mind.
- If you do not know the answer, mark it as unknown do not look it up!
- e. Responses are anonymous.

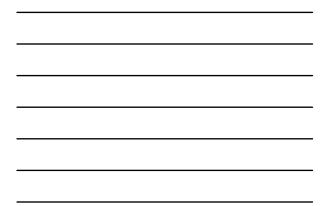


Assessment Completion

- a. Once the completed assessment tools are collected, VHQC will aggregate the responses and provide a feedback report to your hospital leaders and teams.
- b. The feedback report will identify knowledge and practice gaps by staff level.
- c. Targeted education and process improvement actions can then be planned and implemented.
- If you have recently experienced decrease in CAUTI events and a lower SIR; the tool can be used to validate successful education and /or process improvement efforts.



P	repar	ing F	eedba	ck Re	eport		
"ther Applied?"	No						
Overall Number of Assessments in Dataset	Number Presented In Summary Report. 0		Assessment results are entered into an Excel database and summarized to get an overall score and				
Average Summary S	icores	Contraction of the local distance of the loc	identify	domains	and areas		
Total Score (Rengt 8-37)	#DEV/01		identify domains and areas				
Section I Score (Range 0-25)	#DIV/01		for improvement.				
(flange 0-25) Sections II-WI Score (flange 0-52)	storv/oi						
0					1.1.1.1		
		In.Fac	Rity Staff				
5. In perior tradecision module in CAUM presentan adjustes?	3. Is unit revel teadership mechanic CAUTI prevention activities?	3. Does your facility currently have a teen/work prove focusing on CAUTI prevention?	4. Data your faility have a staff person with dwolarate thin to tourinate CAUTI provertion actuities?	5. Direz your facility have a nume champion for CAUN prevention activities?	6. Show your factory have a physical charge for CAUTI providence activities?		
# af Responses per Guer	dae						
0					0		
#CHV/91	is/vice	#DPK/DI	#Dev/tot	#DPV/81	etxev/ai		
#D#V/91	HORV/91	ADAY/DI	HOHU/III	ADA(9)	KON/91		
Undergram							
#047/21	#01V/81	4010/01	40%/81	#0m/m	#D/V/81		



Results: Summary Scores

Section 1: General Infrastructure, Capacity, and Processes

- a. Dichotomous yes/no questions
- b. Possible Score of 25 (1 point for each yes)

Questions 1 – 25

- a. Engagement of Leadership, Champions, and Staff
- b. Staff Training and Competency Assessments
- c. Routine Audits: Insertion protocol, nurse driven protocol
- d. Feedback



Results: Summary Scores

Section 2: Appropriate Indications for Indwelling Urinary Catheter Insertion Score 10

Section 3: Aseptic Insertion of Indwelling Urinary Catheter

Score 4

Section 4: Proper Indwelling Urinary Catheter Maintenance

Score 3 Section 5: Timely Removal of Indwelling Catheter

Score 11

Section 6: Preventing Candiduria and Detecting Asymptomatic Bacteriuria Score 4



Results: Summary Scores

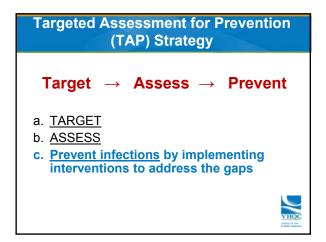
- a. Section 2 6 possible score of 32
- b. Combined for a sub score scaled to 1 point
 - a. 1 point for Always
 - b. 0.75 for Often
 - c. 0.5 for Sometimes
 - d. 0.25 for Rarely
 - e. 0 for Never



Implementation Example • 5. Does your facility have 6. Does your facility have a nurse champion for CAUTI prevention champion for CAUTI activities? prevention activities? • # of Responses per Question 41 41 Yes: 49% 15% • No: 30% 36% Unknown: 49% 21%

- Section 1: General Infrastructure Only 15% responded
- that the facility has a physician champion
- Use the CDC CAUTI Toolkit for links to physician engagement.





The CAUTI Toolkit Implementation Guide

http://www.cdc.gov/hai/prevent/tap/resources.html

General Infrastructure, Capacity, and Processes

Engagement of Leadership, Champions, and Staff Engage the Senior Executive Module - Comprehensive Unit-based Safety Program (CUSP) Toolkild ⁶⁰ Curriculum focused on the role and responsibilities of senior executives, from the Agency for Healthcare Research and Quality (AHRQ)

CUSP Board Checklist # Checklist of activities to have for senior leadership in the prevention of patient harm, from the Agency for Healthcare Research and Quality.

- nyersy for meathcare Research and Quality. CDC Safe Healthcare Blog Why So Many Foleys? Discussion of best practices for managing uninary catheters and reducing risk of CAUTI, guest author Wendy Kaler, MPH, CIC, Dignity Health
- Strategies to engage nurses as champions in CAUTI prevention, from catheterout.org
- Strategies and Tips for Physician Engagement @ Strategies to engage physicians as champions in CAUTI prevention, from catheterout.org Presentation to Nurse Manager & Case Manager / Manager

Implementation Resources

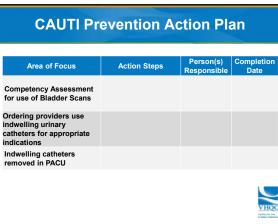
Strategies for Physician Engagement Downloaded at Involve physicians as much as possible in planning, education, and implementation; include physicians (e.g., hospitalists, urologists, hospital epidemiologists, and infectious disease physicians) on your team. www.catheterout.org Gamer support of medical leadership, e.g., chief of staff, chief medical officer.

Have the physician champion meet with physicians to get them on board.

Conduct education on, for example, CMS rule changes, proper indications, evidence supporting reducing catheter use, evidence that physicians are often not aware that a patient has a catheter. Education can be conducted through, for example, presentation in staff meetings by the physican charging and advances managers, CMES, one-on-one, and through preted and electronic maternials such as pocket cards, there, or a meedider. See section "<u>Terms</u> and <u>pocket cards</u>, and http://catteletenut.org/?ip-thers-and-pocket. cards.

- Periodically post catheter prevalence and CAUTI rates in a physician version
- If you are part of a large health care system, influence and leverage system policies on physician practices.

Physicians-in-training, physician assistants, and nurse practitioners may also pay a key role in catheter-associated univery tract intectors-related activities, depending on the hospital and the unit, thus the above statedgeis may also apply to these inputsion care providers.



VHQC

Resources

TAP Implementation Toolkit: http://www.cdc.gov/hai/prevent/tap/resources.html

FAQs: http://www.cdc.gov/hai/prevent/tap.htm

TAP Report Quick Reference Guide for Facilities: http://www.cdc.gov/nhsn/PDFs/TAP/TAPReports_Facilities.pdf







Onboarding call with VHQC

• December 2, 2015-

- Nursing Directors
- Nurse Managers
- Charge nurses
- CAUTI Team Members (includes RN, LPN and Nursing assistants)
- Infection Prevention and Control
- PI
- Education

When to roll out tool

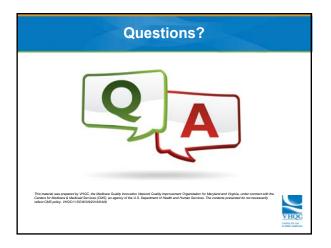
- Decided to wait until after the holidays
- Survey 1/4/16 -1/15/16
- December 31st
 - Sent the link to Survey monkey and instructions via email to the NM of all of the inpatient units along with the ED NM sent this info to their respective staff

Survey Period

- Reminder emails sent throughout the 2 week period this included the instructions and survey link
- IP contacted hospitalist group –they filled out on paper and slid under our office doors
- IP contacted urology group-they entered into survey monkey

Follow up Survey Results

- Site Visit with VHQC consultant 2/24/16
 - Nurse Managers, PI and Education attended
 - Excellent feedback from audit results
 - Action Plans from consultant to get us headed in the right direction





VDH Contact Information

Andrea Alvarez, MPH – Program Coordinator andrea.alvarez@vdh.virginia.gov Contact for HAI program questions, training opportunities, newsletter and coordination

Sarah Lineberger, MPH – HAI Epidemiologist sarah.lineberger@vdh.virginia.gov Contact for HAI data/reports & National Healthcare Safety Network technical assistance

Carol Jamerson, BSN, RN, CIC – Nurse Epidemiologist carol.jamerson@vdh.virginia.gov Contact for consultation on infection prevention-related issues

Mefruz Haque, MPH – CDC/CSTE HAI Applied Epi Fellow

mefruz.haque@vdh.virginia.gov Contact for data requests, educational materials



VHQC Contact Information

Deb Smith, BSN, CIC, CPHQ VHQC Improvement Consultant dsmith@vhqc.org NHSN technical assistance for MVHIN providers

> Carol Whalen RN, BAT, CPHQ VHQC Improvement Consultant carol.whalen@vhqc.org



Save the Date!

Surveillance Strategies for Success Part 3: Annual NHSN Training Updates Friday, April 8 12:00 PM – 1:00 PM

