

#### From Data to Discovery: Interpreting Data for Action

**Presented by the Healthcare Safety Group** 

## Learning Objectives



Texas Department of State Health Services

#### Participants will be able to:

- Discuss results of the Infection Control Assessment and Response (ICAR) project in Texas.
- Describe how the National Healthcare Safety Network's (NHSN) new baseline may affect their healthcare associated infection data reports.
- Understand how the use of Targeted Assessment for Prevention (TAP) Strategy for NHSN data can help to identify, assess and target prevention efforts.

#### Data, data, data



Texas Department of State Health Services

"In God we trust. All others must bring data."

"We spend a lot of time getting data, but not looking at it."

"The goal is to turn data into information, and information into insight."

"Some of the best theorizing comes after collecting data because then you become aware of another reality."

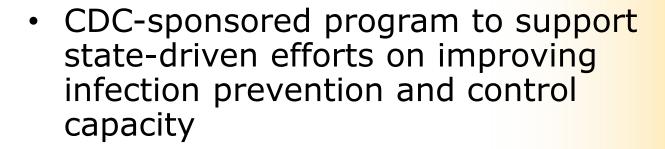
"Things get done only if the data we gather can inform and inspire those in a position to make [a] difference."



## ICAR visits

# Susana Baumann, MPH, CIC Gretchen Rodriguez, MPH, CIC

#### What are ICAR Visits?





Facility selection – collaborative, voluntary







II.	Infection Control Training, Competency, and Implementation of Policies and Procedures						
		Elements to be assessed	Assessment	Notes/Areas for Improvement			
A.	Har	nd Hygiene					
1.	Hospital has a competency-based training program for hand hygiene.		O Yes O No				
Ver	rify the following:  a. Training is provided to all healthcare personnel, including all ancillary personnel not directly involved in patient care but potentially exposed to infectious agents (e.g., food tray handlers, housekeeping, and volunteer personnel).		a. O Yes O No				
	b.	Training is provided upon hire, prior to provision of care at this hospital.	b. O Yes O No				
	c.	Training is provided at least annually.	c. O Yes O No				
	d.	Personnel are required to demonstrate competency with hand hygiene following each training.	d. O Yes O No				
	e.	Hospital maintains current documentation of hand hygiene competency for all personnel.	e. O Yes O No				
2.		spital routinely audits (monitors and documents) adherence hand hygiene.	O Yes O No				
Ver	/erify the following: a. Respondent can describe process used for audits.		a. O Yes O No				
	b.	Respondent can describe frequency of audits.	b. O Yes O No				
	c.	Respondent can describe process for improvement when non-adherence is observed.	c. O Yes O No				

# Additional Areas



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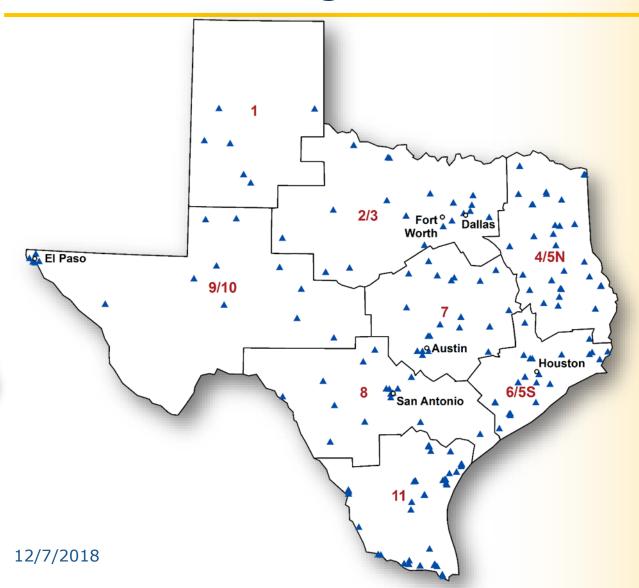
- Kitchen
- Laundry
- Medication rooms
- Additional patient centered rooms
- Miscellaneous items & services (e.g., fountains, pets, disinfectants)



#### **Facility Overview**

August 2016 - December 2017						
<b>Facility Type</b>	National	State (Texas)				
Total Acute Care Hospitals	970	54				
Dialysis	168	23				
Long-term Care Facility	289	116				
Outpatient	108	4				
Total	1535	197				

#### ICAR Visits Aug 2016 – Dec 2017



9



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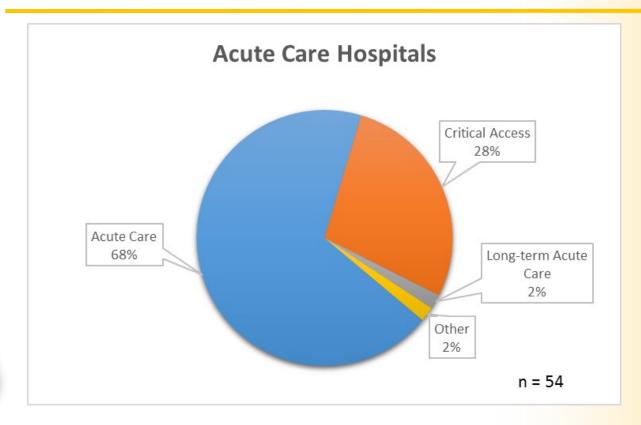


Health Services

## ICAR Results

**Acute Care Hospitals and Long Term Care Facilities August 2016 – December 2017** 

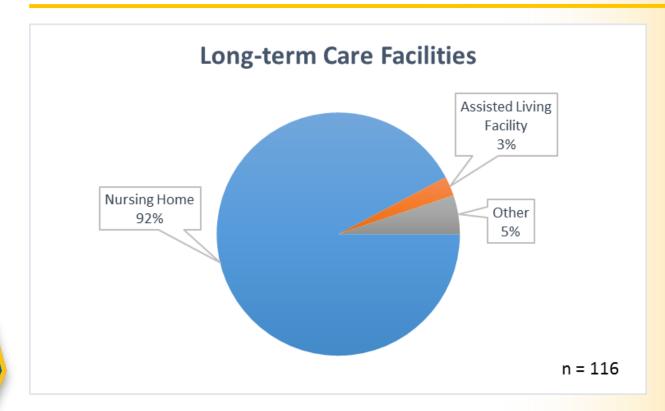
#### **Demographics**



	Mean	Min	Max
Number of Licensed Beds	112	10	557
FTE Infection Preventionist	0.97	0.03	5



#### Demographics

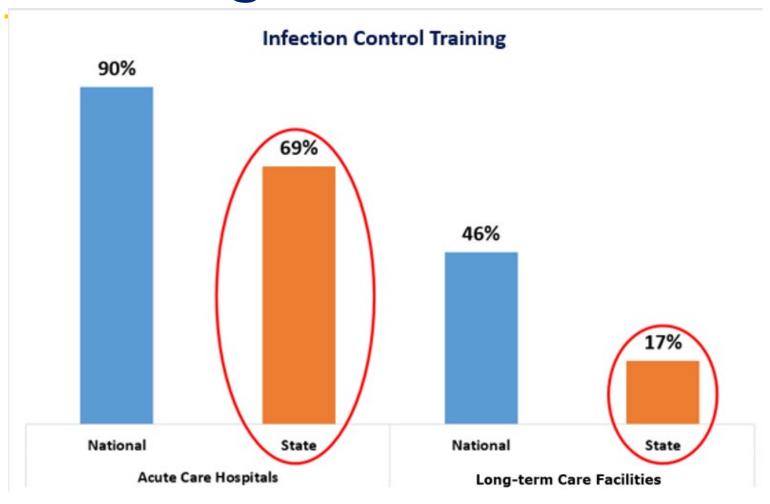






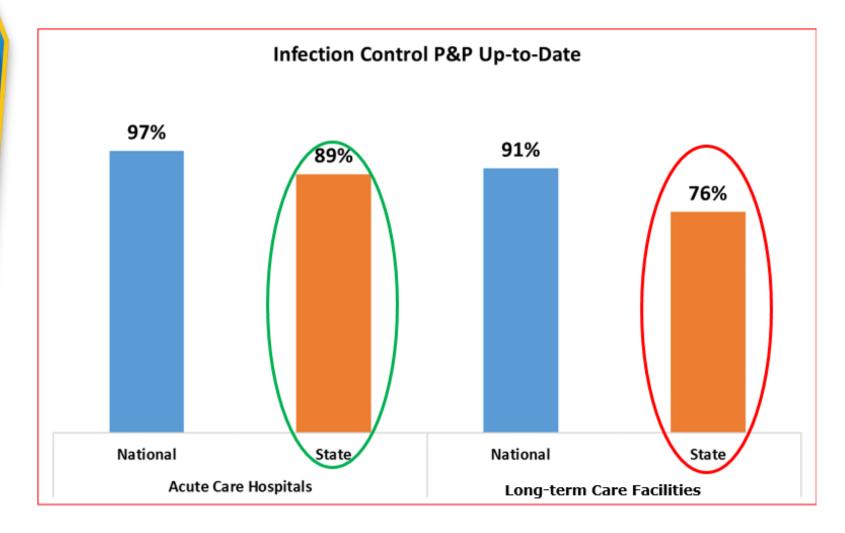
# Formal Infection Control Training



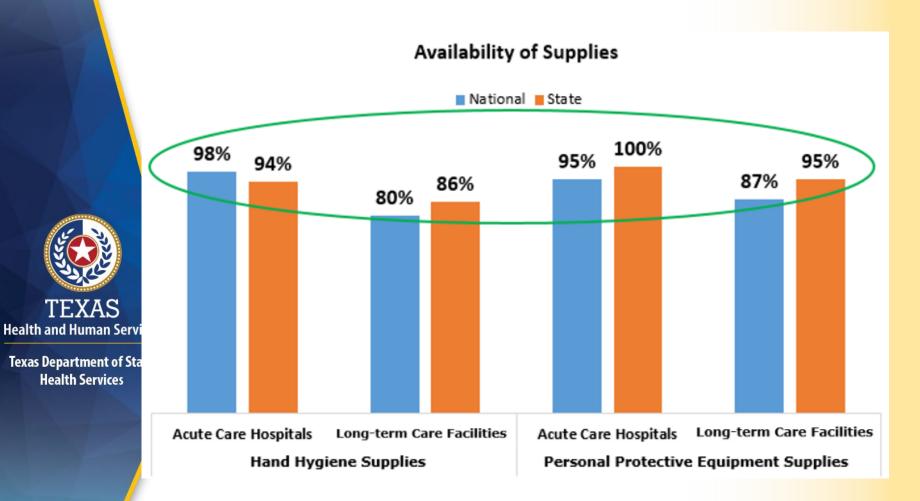


#### **Policies and Procedures**





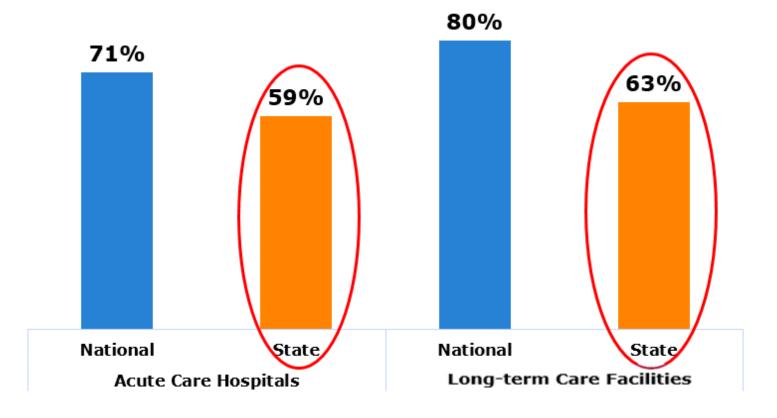
#### **Standard Precautions**





#### Respiratory Etiquette

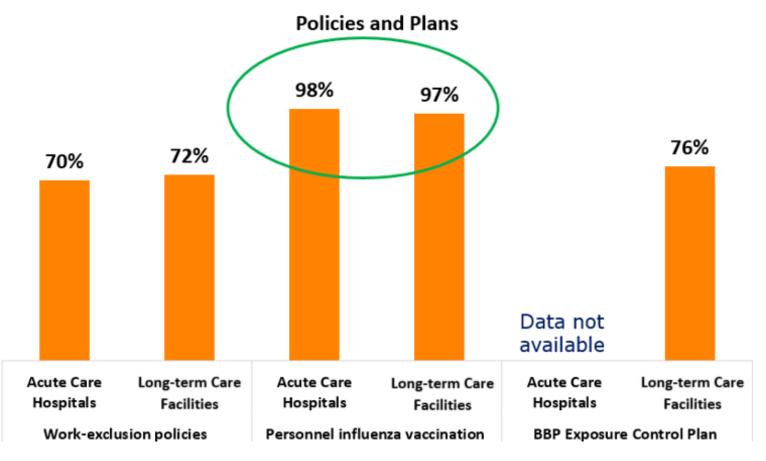
#### Elements of Respiratory Etiquette





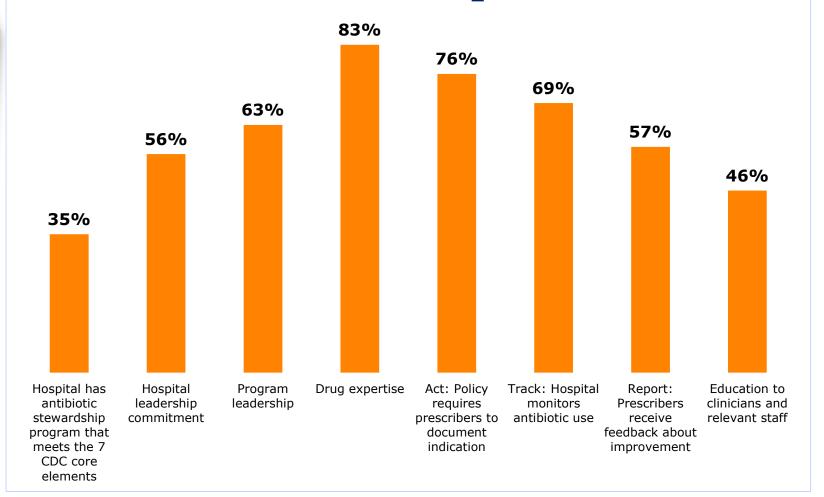
#### **Employee Health**

#### **Texas**





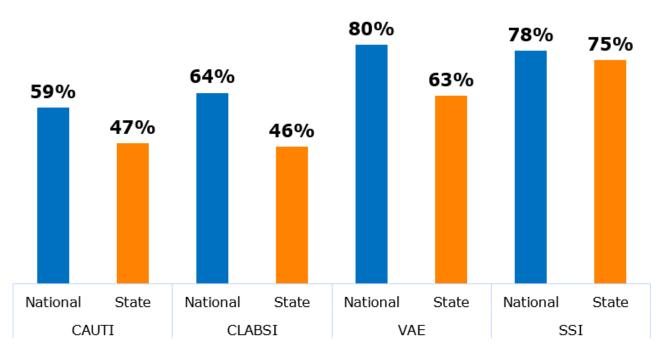
## Antibiotic Stewardship Elements in Acute Hospitals





#### **Additional Measures**

#### **HAI Prevention Readiness**



**Key:** CAUTI – Catheter-associated Urinary Tract Infection

**CLABSI - Central Line-associated Bloodstream Infection** 

**VAE - Ventilator-associated Event** 

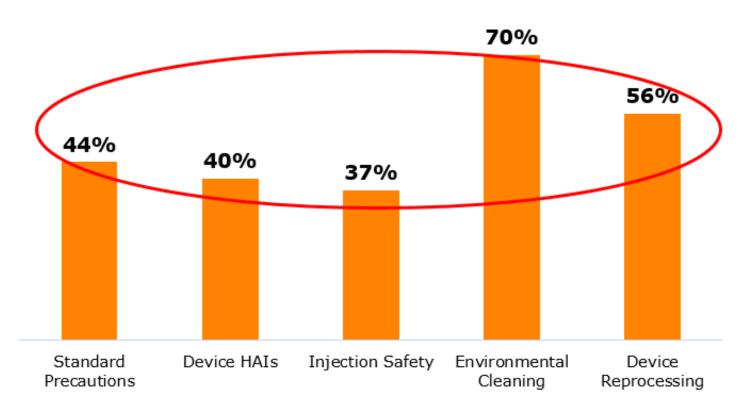
**SSI – Surgical Site Infection** 



#### **Education Programs**

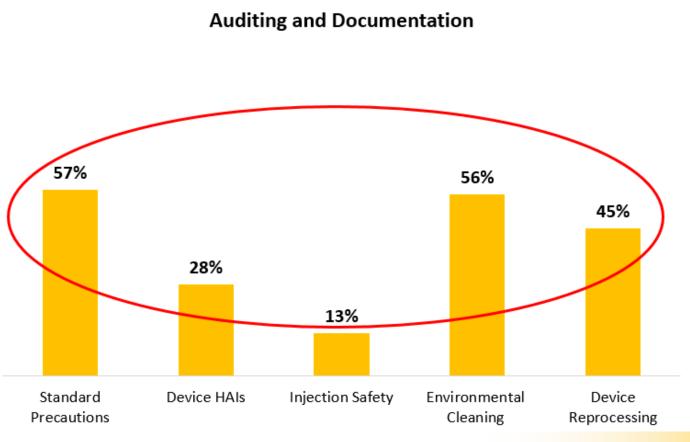
#### Acute Care Hospitals

**Competency-Based Training Programs** 



## **Auditing Process**

#### **Acute Care Hospitals**





TEXAS
Health and Human Services

Texas Department of State
Health Services

## **Top 3 Strengths**





 Employee Health policies and plans



## Top 3 Gaps

- Antibiotic Stewardship policies and practices
- Auditing and documentation
- Infection Control Training



#### **Antibiotic Stewardship**





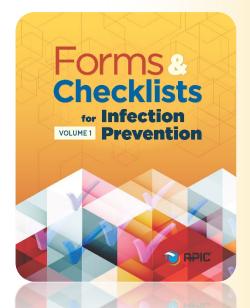






#### **Audit and Documentation**

- CDC Tools for Healthcare Facilities
  - Acute Care
  - Ambulatory/Outpatient Settings
  - Long Term Care
  - Dialysis Facilities
  - Dental Settings





#### IC Training

- Certification Board of Infection Control and Epidemiology, Inc.
- SHEA Online Learning Center
- APIC Education & Certification
- TSICP Education
- CDC Webinar Series
- NHSN Training



#### **Public Health Interventions**

#### **Use data for action!**

- Provide HAI Support to all types of healthcare facilities
- Continue CIC training efforts
- Collaborate with HHSC
- Conduct educational webinars
- Develop standardized tools





## National Healthcare Safety Network

Jennifer Vinyard, MPH, CIC

# TEXAS Health and Human Services Texas Department of State Health Services

### **Texas Requirements**

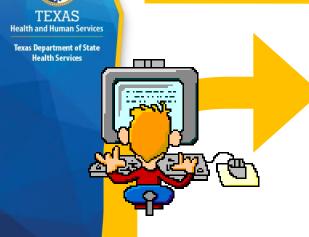
**Central line-associated bloodstream infections (CLABSI)** in the following special care settings: adult, pediatric and/or adolescent ICUs & NICUs (Level II/III & Level III Nurseries).

**Catheter associated urinary tract infections (CAUTI)** in the following special care settings: adult, pediatric and/or adolescent ICUs.

#### Surgical site infections (SSI)

- CHILDREN'S HOSPITALS: Cardiac procedures, heart transplants, spinal surgery with instrumentation, and VP shunt procedures.
- ALL OTHER GENERAL HOSPITALS & ASCs: Colon surgeries, hip & knee arthroplasties, abdominal & vaginal hysterectomies, vascular procedures, and coronary artery bypass grafts.

## Reporting Overview









Alerts regarding data & reports

View reports & make comments





# What is the Standardized Infection Ratio?

$$SIR = \frac{Observed \# infections}{Predicted \# infections}$$

- A metric for comparing infection occurrence to national benchmark (baseline).
- Predicted # infections based on nationally aggregated risk-adjusted data.
- If > 1, more infections than predicted.
- If < 1, fewer infections that predicted.



## Change of Baseline

- The original baseline was from 2006-2009.
- New SIR Baseline year = 2015
  - Updated Risk Models
  - Updated how data are parsed
- How does this affect you?





# Comparison of NHSN baselines – SSI Old Baseline

- Each NHSN Operative Code had a separate set of Predictive Risk Factors.
   Procedures/Events were excluded from the SIR calculation if:
  - Any missing risk factors
  - Duration <5 min or exceeds threshold</li>
  - Procedure date is ≤ patient DOB
  - Patient's age at procedure is ≥ 109 years
  - Wound Class = U
  - Approach = N (FUSN and RFUSN)
  - Spinal Level = N (FUSN only)



# Comparison of NHSN baselines – SSI New Baseline

- Separate SIR for Pediatric patients and Adult patients.
- Some changes to procedure specific predictive risk factors.
- New exclusions:
  - Gender = Other or missing
  - Outpatient procedures
  - PATOS=Y
  - Missing closure technique, ASA score
  - BMI <12 or > 60 (adults)
  - BMI < 10.49 or > 65.79 (pediatric)
  - Medical Affiliation or Number of Beds is missing from annual survey





# Comparison of NHSN baselines – CLABSI/CAUTI

- CAUTI/CLABSI
  - Old baseline: Used national rate for each location type to determine the predicted number of infections based on device days.
  - <u>New baseline</u>: Uses regression models to risk adjust based on
    - Location Type
    - Facility Size/Type
    - Medical School Affiliation
    - Birthweight (for NICUs)



## **CLABSI Example**

#### National Healthcare Safety Network SIR for In-Plan Central Line-Associated BSI Data - Overall

As of: June 25, 2018 at 11:18 AM

Date Range: B\$1\_CLAB\_RATE\$ALL summaryYH 2016H1 to 2016H2 if (((bsiPlan = "Y" ) AND (locationType IN ("CC", "CC\_N" )) ))

summaryYı	infCount	numExp	numCLDays	SIR	SIR_pval	SIR95CI
2016	995	2003.9	967518	0.497	0.0000	0.466, 0.528

#### National Healthcare Safety Network SIR for Central Line-Associated BSI Data for Acute Care Hospitals (2015 baseline) - Overall

As of: June 25, 2018 at 11:20 AM

Date Range: BS2\_CLAB\_RATESALL summaryYH 2016H1 to 2016H2

if (((bsiPlan = "Y" ) ))

summaryYr	infCount	numPred	numcldays	SIR	SIR_pval	sir95ci
2016	1044	1143.0	1.07E6	0.913	0.0032	0.859, 0.970



# CLABSI/CAUTI Exclusions



available to calculate namexp.

Possible reasons

Lower bound of 95% Confidence Interval only calculates.
SIR values only calculated if numExp >= 1

SIR excludes those month, and locations, where device days
At least one month of denominator data in at least one loca
in this table were reported using the NHSN sampling metho

Source of aggregate data: NHSN Report, Am J Infect Control 2009;37:783-805

1. This report includes non-MBI CLABSI data from acute care hospitals for 2015 and forward.

- 2. The SIR is only calculated if the number predicted (numPred) is >= 1. Lower bound of 95% Confidence Interval only calculated when number of observed events > 0.
- The number of predicted events is calculated based on national aggregate NHSN data from 2015. It is risk adjusted for CDC location, hospital beds, medical school affiliation type and facility Type.
- 4. If the risk factor data are missing, the record will be excluded from the SIR.
- At least one month of denominator data in at least one location included in this table were reported using the NHSN sampling method protocol.
   Source of aggregate data: 2015 NHSN CLABSI Data

NEW

for more device

days & infections

in SIR calculation



#### National Healthcare Safety Network SIR for In-Plan Central Line-Associated BSI Data - Overall, by Location Type

As of: June 25, 2018 at 11:18 AM

Date Range: BS1\_CLAB\_RATESALL summaryYH 2016H1 to 2016H2

if (((bsiPlan = "Y" ) AND (locationType IN ("CC", "CC\_N" )) ))

locationtype	summaryYr	infCount	numExp	numCLDays	SIR	SIR_pval	SIR95CI
ICU-OTHER	2016	824	1632.6	806925	0.505	0.0000	0.471, 0.540
NICU	2016	171	371.33	160593	0.461	0.0000	0.395, 0.534

#### National Healthcare Safety Network SIR for Central Line-Associated BSI Data for Acute Care Hospitals (2015 baseline) - Overall, by Location Type

As of: June 25, 2018 at 11:20 AM

Date Range: BS2\_CLAB\_RATESALL summaryYH 2016H1 to 2016H2

(((bsiPlan = "Y" ) ))

NEW

_	location Type	summaryYr	infCount	numPred	numcidays	SIR	SIR_pval	sir95ci	
(	cc	2016	793	824.34	805224	0.962	0.2823	0.897, 1.031	
	CC_N	2016	171	221.68	160593	0.771	0.0005	0.662, 0.894	
1	CC_ONC	2016	3	9.740	9669	0.308	0.0159	0.078, 0.838	1
	OTHER	2016	2	3.930	5739	0.509	0.3454	0.085, 1.681	
	STEP	2016	6	5.357	6893	1.120	0.7382	0.454, 2.329	
	WARD	2016	52	53.327	59680	0.975	0.8735	0.736, 1.269	
1	WARD_ONC	2016	17	24.597	19458	0.691	0.1147	0.416, 1.084	



#### National Healthcare Safety Network SIR for In-Plan Central Line-Associated BSI Data - Overall, by Location Type

As of: June 25, 2018 at 11:18 AM

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NICU	2016	171	371.33	160593	0.461	0.0000	0.395, 0.534

#### National F SIR for Ce (2015 bas

As of: June 25, 20 Date Range: BS2

(((bsiPlan = "Y"

**ICU-OTHER** now split into 6 new location types

for Acute Care Hospitals

	location Tyr	'اد	√Yr	infCount	numPred	numcidays	SIR	SIR_pval	sir95ci
C	cc	7 🗾	2016	793	824.34	805224	0.962	0.2823	0.897, 1.031
	CC_N		2016	171	221.68	160593	0.771	0.0005	0.662, 0.894
	CC_ONC		2016	3	9.740	9669	0.308	0.0159	0.078, 0.838
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	WARD_ONC		2016	17	24.597	19458	0.691	0.1147	0.416, 1.084

12/7/2018



#### National Healthcare Safety Network SIR for In-Plan Central Line-Associated BSI Data - Overall, by Location Type

As of: June 25, 2018 at 11:18 AM

Date Range: BS1\_CLAB\_RATESALL summaryYH 2016H1 to 2016H2

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#### National Healthcare Safety Network SIR for Central Line-Associated BSI Data for Acute Care Hospitals (2015 baseline) - Overall, by Location Type

As of: June 25, 2018 at 11:20 AM
Date Range: BS2\_CLAB\_RATESALL summaryYH 2016H1 to 2016H2

(((bsiPlan = "Y" ) ))



location Type	summaryYr	infCount	numPred	numcidays	SIR	SIR_pval	sir95ci
cc	2016	793	824.34	805224	0.962	0.2823	0.897, 1.031
CC_N	2016	171	221.68	160593	0.771	0.0005	0.662, 0.894
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(((bsiPlan = "Y" ) ))

NEW
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NICU	2016	171	371.33	160593	0.461	0.0000	0.395, 0.534

National Healthcare Safety Net SIR for Central Line-Associated (2015 baseline) - Overall, by Lo Number of predicted infections is much lower → SIR higher

As of: June 25, 2018 at 11:20 AM

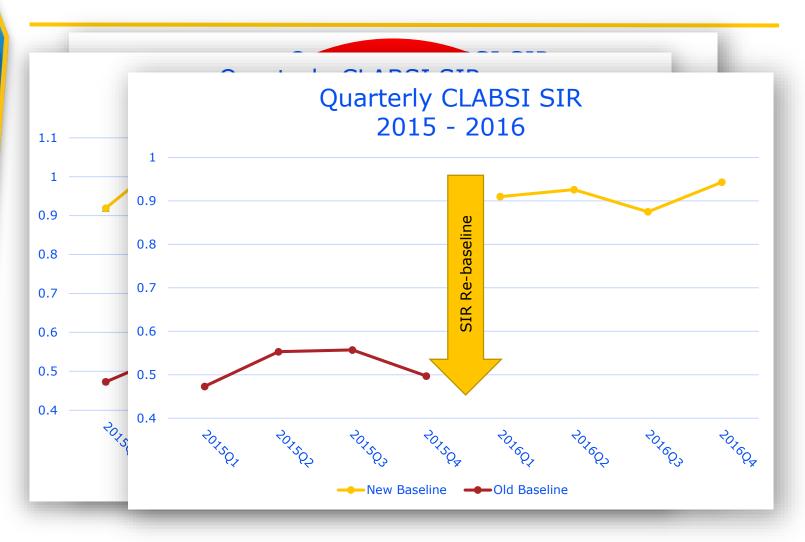
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NEW

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#### How to trend data?



#### **Data Uses**



Texas Department of State Health Services

#### Facility Uses

- Determine whether there is a higher burden of HAI than baseline
- Trending are improvements being made?
- Identify locations that need improvement

#### State Uses

- Annual Aggregated Data trending, identify which regions need additional support
- Identify specific facilities that may need extra assistance
- Publically post data for consumer use

#### Public/Consumer Uses

 To empower patients to make informed choices regarding where they receive their healthcare



# **Facility-Specific Reports**

Facility-Specific Health Care Safety Report - Technical Version

#### Reported by the Texas Department of State Health Services

Time Period: July - December [Final] 2014 Report current as of: 05/04/2015 02:30 PM

Data shown in this report came from the National Healthcare Safety Network (NHSN).

		Central Line-Ass	ociated Bloodstrea	m Infection (CLA	ABSI) Standardiz	ed Infection Rati	o (SIR)	
Unit Type	No. of Central	Number of	Number of Infections		SIR and 95% Confidence Interval		SID Interpretation that Contri	
Offic Type	Line Days	Observed	Predicted	SIR	Lower	Upper	SIK IIItelpretation	to the Patient's Death
NICU	2533	1	6.622	0.151	0.008	0.745	Significantly fewer infections observed than predicted, based on the 2006 - 2008 national baseline	0
ICU	1733	1	2.6	0.385	0.019	1.897	No significant difference between the number of observed and predicted infections, based on the 2006 - 2008 national baseline	0

<sup>\*</sup> NOTE: The SIR Statistical Interpretation only takes into consideration the SIR values. The facility is responsible for providing any additional explanation regarding deaths and if provided, can be found below in the Facility Comments Section.

		Catheter-Asso	ciated Urinary Tra	ct Infection (CAU	TI) Standardized	Infection Ratio (	SIR)			
Unit Type	No. of Urinary	Number of	Number of Infections		95% Confidence Interval		SIR and 95% Confidence Interval		SIR Interpretation	No. of CAUTIs that Contributed
Offic Type	Catheter Days	Observed	Predicted	SIR	Lower	Upper	On the pretation	to the Patient's Death		
ICU	1850	8	2.22	3.604	1.674	6.843	Significantly more infections observed than predicted, based on the 2009 national baseline	0		

# Harvey Disaster Proclamation



Texas Department of State Health Services

- Data reporting for Texas was suspended due to Hurricane Harvey. (CMS reporting still required)
- Disaster Proclamation extended through June 2018 (as of 6/15/18).
- Facility-Specific reports will not contain data – will state that facilities were not required to report.
- Aggregated (overall State-level) data may be published with caveats.





Texas Department of State Health Services



Melba Zambrano, MSN-IC, CIC

#### What is TAP?

#### **Quality Improvement**

- Uses data for action
- Prioritizes prevention efforts
- Targets location with greatest impact
- Standardized method to identify gaps
- Resource to address gaps





### Standardized Infection Ratio

Facility Org ID	Summary YR	Events	Number Predicted	Urinary Catheter Days	SIR
123456	2017	20	5	3850	3.1

## National vs. Texas



		2015	DATA			
HAI TYPE	# ACHs REPORTING*	2015 SIR DISTRIBUTION <sup>‡</sup>		2015	2015	
nai IIrc	# ACHS REPURTING	MINIMUM	MEDIAN	MAXIMUM	STATE SIR	NAT'L SIR
CLABSI	331	0.041	0.879	1.912	0.970	0.994
CAUTI	360	0.000	0.770	1.728	0.907	0.993
VAE	127	0.000	0.535	1.647	0.729	1.000
SSI, Abdominal Hysterectomy	278	_	_	_	0.859	1.003
SSI, Colon Surgery	273	0.000	0.787	1.927	0.962	0.999
C. difficile Events	359	0.270	0.884	1.544	0.927	0.993
MRSA Bacteremia	354	0.000	0.784	1.942	0.911	0.998

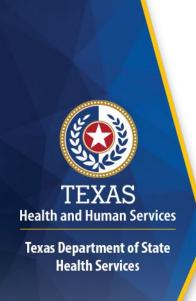




#### **CAD= Observed # HAI-(Predicted #HAIs x SIR goal)**

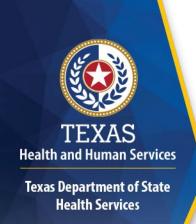
- Cumulative Attributable Difference (CAD)
- Show difference between the number of observed infections and predicted infections multiplied by a SIR goal
- CAD can be positive (excess infections) or negative

### **Reduction Goal**



Facility A:	Observed =50	Predicted = 70.8	SIR =0.71
Reduction Goal	SIR Goal	CAD Formula: Observed- (Predicted X SIR goal)	CAD
0%	1.0	50-(70.8 x 1)	-20.8
*25%	0.75	50-(70.8 x 0.75)	-3.10
50%	0.50	30-(70.8 x 0.50)	14.60
75%	0.25	50-(70.8 x 0.25)	32.3

### **CAD Location Level**



Facility A	Observed	Predicted	SIR	SIR Goal	CAD
Ward	20	10	2.0	0.50	15
ICU	30	60	0.5	0.50	0
Facility	50	70	0.71	0.50	15

# **Facility Type Reports**



Facility Type	CLABSI	CAUTI	CDI	MRSA
Acute Care Hospital				
Long Term Acute Care Hospital				
Inpatient Rehab				

12/7/2018

54

## **Target: Generating Reports**

#### **TAP Report**

- Utilize 2015 baseline data
- Generated by time period
- Recommend time period of at least one quarter
- Preferably filters should not be used
- Selecting HHS Goal
  - CAUTI SIR goal: 0.75
  - CDI SIR goal: 0.70
  - CLABSI SIR goal: 0.50





# Facility & Location Rank

facRank	orgID	Name
1	1000	St. Petersburg
2	10401	Blank Medical Center
3	90002	ICU Hospital
4	10064	Great Care Center
5	8888	Hospital of Texas

Facility name	Facility CAD	Location Rank	Location
Blank Medical Center	6.35	1	ICU
		2	6 West
		3	Step1
		4	TELE

#### **Assess: Assessment Tool**

#### Surveys

- Administered on-site or remotely
  - Adobe PDF fillable form
  - Paper survey
  - Survey Monkey
- Minimum of 30 surveys per facility
- Indicative of staff knowledge
  - No, never, rarely, or sometimes
  - Action Information

opportunities and next steps.

Instructions for Submission

Do you have a Desktop Email Application? (e.g., Outlook, Windows Live Mail)

Click SUBMIT
 Select the top radio button (Desktop Email Application)

3) Click OK
This will automatically generate an email
with the completed form attached

Do you have a **web-based email** address? (e.g., Gmail, Yahoo)

Click SUBMIT
 Select the bottom button (Internet Email)
 Copy the email address listed in the text next to the radio button

4) Click OK 5) Save the document to your computer 6) Open your web based email, attach the file, and send to the copied email address Are you having trouble submitting?
(e.g., No email application, Firewall is blocking submission)

1) Click the PRINT button
2) Print to a local printer
3) Give completed form to your facility Point
of Contact

For Internal Use Only

#### Instructions for Administration:

This Facility Assessment Tool should be administered to a variety of staff and healthcare personnel at different levels of the organization and/or unit (i.e., frontline providers, mid-level staff, and senior leadership). This tool also should be administered to Environmental Services personnel as they too play a critical role in CDI prevention. This assessment captures healthcare personnel's knowledge, attitudes, and perceptions of infection prevention practices. The greater number of assessments collected, the greater the ability to identify gaps and target prevention.

This Assessment Tool is a component of the Targeted Assessment for Prevention (TAP) Strategy. For more information, visit http://www.cdc.gov/hai/prevent/tap.html

This tool can be distributed and returned via email. Prior to distribution, enter the email address to which the completed assessments should be returned and Save the document (send this Saved version to respondents). When respondents "Submit", the form will be automatically sent to the email address specified below.

Return Email Address:



Texas Department of State Health Services

12/7/2018



**Health Services** 

### **TAP Tools**

	Date of Assessment:
Other, Please Specify:	
Other, Please Specif	fy:
Response	Comments (and/or "As Evidenced By")
Yes No Unk	
Yes No Unk	
Yes No Unk	
Yes No OUnk	
Yes No Unk	
1	Evidenced By")_Yes No Unk
	Response  Yes No Unk  Yes No Unk  Yes No Unk  Yes No Unk

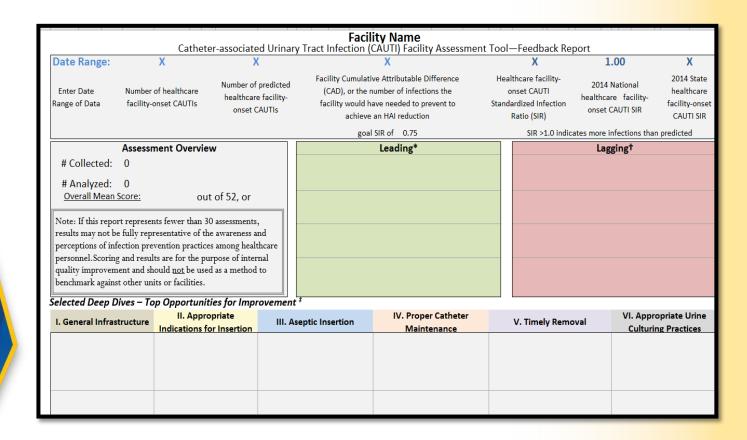
CAUTI CLABSI CDI

# **Excel Spreadsheet**



Ia.	Facility	Staff
team/work group focusing on CAUTI	ture	4. Does your facility have a staff person with dedicated time to coordinate CAUTI prevention activities?

# Feedback Report





Texas Department of State
Health Services

## Response Rates



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#### Responses Per Question

Please note: Selected LEADING results are highlighted in green (>75% Yes, or >75% for sum of Often+Always). Selected LAGGING results are highlighted in red (>33% Unknown, >50% No, >50% for sum of Never+Rarely+Sometimes+Unknown). It is strongly encouraged that each unit and facility review all of the data available to target other potential opportunities for improvement, aligning to ongoing and/or planned areas for intervention where possible. Data may not be representative of actual practices, as these are self-reported respondent perceptions.

I. General Infrastructure, Capacity, and Processes			
Question	Yes	No	Unknown
1. Does your facility's senior leadership actively promote CAUTI prevention activities?	0%	0%	0%
2. Is unit-level leadership involved in CAUTI prevention activities?	0%	0%	0%
3. Does your facility currently have a team/work group focusing on CAUTI prevention?	0%	0%	0%
4. Does your facility have a staff person with dedicated time to coordinate CAUTI prevention activities?	0%	0%	0%
5. Does your facility have a nurse champion for CAUTI prevention activities?	0%	0%	0%
6. Does your facility have a physician champion for CAUTI prevention activities?	0%	0%	0%
Does your facility provide training to all healthcare personnel* on:  *For personnel given the responsibility to insert, assist with insertion, or maintain indwelling urinary catheters.	Yes	No	Unknown
, , , , , , , , , , , , , , , , , , , ,	Yes	<b>No</b> 0%	Unknown 0%
*For personnel given the responsibility to insert, assist with insertion, or maintain indwelling urinary catheters.			

#### **Prevent: Resources**



- 1. TAP CAUTI Toolkit Implementation
  Guide: Links to Example
  Resources(https://www.cdc.gov/hai/prevent/tap/cauti.html)
- 2. TAP CDI Implementation Guide:
  Links to Example
  Resources(https://www.cdc.gov/hai/prevent/tap/cdiff.html)
- 3. TAP CLABSI Implementation Guide:
  Links to Example Resources
  (https://www.cdc.gov/hai/prevent/tap/clabsi.html)

## **Texas TAP Strategy**



Measures	No. TAP Assessments Completed
CLABSI	11
CAUTI	8
Total:	19

# **Implemented**



- 2. Implementing CLABSI bundle
- 3. Department Specific In-services
- 4. Equipment and new product training
- 5. Creation of PICC team
- Implement Nurse driven CAUTI protocols
- 7. Review products- suture-less adhesives, non-indwelling



#### **Success Stories**

"We are working hard on preventing CAUTIS and the assessment you did was very helpful!"

"This was helpful, we found the same type of stuff in our own drill downs so your findings are reassuring that's what we should focus on."

"Having recommendations from DSHS got everyone's attention".

74% of facilities that participated in the TAP Strategy saw a decrease in their SIR and CAD.



**Texas Department of State Health Services** 

# Questions?

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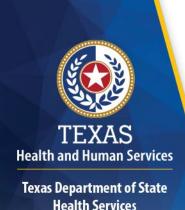
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Texas Department of State Health Services

# Thank you!

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