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CENTERS FOR MEDICARE & MEDICAID SERVICES



# *Let's Take a Close Look at Arizona's Healthcare-Associated Infection Data*

**Arizona Department of Health Services  
Office of Infectious Disease Services  
2012 Infectious Disease Training & Exercise**

**August 1, 2012**

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Health Services Advisory Group, Inc.  
(Arizona's Medicare Quality Improvement Organization)**

# *Primary Objectives*

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- CMS Public Reporting and *Hospital Compare*
  - Tour of the Web site
  - Review the latest national and state results on Central-Line Associated Blood Stream Infections (CLABSI)
  
- Current Results from the Arizona NHSN Group
  - CLABSI and Catheter Associated Urinary Tract Infections (CAUTI)
    - Rates
    - Device Utilization Ratios
    - Standardized Infection Ratios (SIR)

# ***CMS Hospital Compare – in a Nutshell***

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## **Background of CMS Public Reporting**

- CMS and The Joint Commission Align
- 10-Measure Starter Set
- Arizona—Part of the CMS 3-State Pilot Project
- Annual Payment Update—“Market Basket”
- Process, Outcome, and Patient Perception Measures
- Quarterly CMS Reporting Requirements
- Pay-for-Reporting
- Pay-for-Performance—Value-Based Purchasing





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Medicare Basics

Resource Locator

Help & Support

Medicare.gov > Hospital Compare Home

About Hospital Compare

About the Data

Resources

Help

## Hospital Compare

### Find a Hospital

Location - ZIP Code or City, State (required)

Example: 21244 or Baltimore, MD

Hospital Name - Full or Partial (optional)

Show Hospitals



### Compare Other Providers and Plans

In addition to Hospital Compare, you may find the following sites helpful:

- ◆ Nursing Home Compare
- ◆ Physician Compare
- ◆ Home Health Compare
- ◆ Dialysis Facility Compare
- ◆ Medicare Plan Finder

### Hospital Spotlight

Learn about the new organization of the Hospital Compare measures.

There are two new measures under the Use of Medical Imaging tab.

Medicare now has information about Emergency Department Wait Times.

Beginning October 2012, Hospital Compare will include new surgical outcomes measures submitted on a voluntary basis by hospitals participating in the American College of Surgeon's National Surgical Quality Improvement Program database (ACS NSQIP®).

### Additional Information

- ◆ Visit Medicare's Hospital Value Based Purchasing Program page and learn more about future measures.
- ◆ View a list of Hospital Compare contacts.
- ◆ Download the Hospital Compare Database (Data Last Updated: July 19, 2012)

# CMS Hospital Compare

## Hospital Results

[View Map](#) | [View Table](#)



**Modify Your Results**

**Update Results**

**Location**

ZIP Code or City, State

**Distance**

State

**County (Optional)**

**Hospital Type**

**Hospital Name**

**Update Results**

**New Search**

**Your search resulted in 31 hospitals available within 25 miles from the center of Tempe, AZ.**

Choose up to three hospitals to compare. So far you have selected:

- BANNER DESERT MEDICAL CENTER
- BANNER HEART HOSPITAL
- JOHN C LINCOLN DEER VALLEY HOSPITAL

**Compare Now**

Viewing 1 - 20 of 31 First Prev **1** **2** Next Last

	GENERAL INFORMATION [?]	DISTANCE [?]	HOSPITAL TYPE [?]	EMERGENCY SERVICES [?]
<input type="checkbox"/>	<b>A. ARIZONA ORTHOPEDIC SURGICAL HOSPITAL</b> 2905 WEST WARNER ROAD CHANDLER, AZ 85225 (480) 603-9000 Add to my Favorites	8.7 Miles	Acute Care Hospitals	No
<input type="checkbox"/>	<b>B. ARIZONA REGIONAL MEDICAL CENTER</b> 515 NORTH MESA DRIVE MESA, AZ 85201 (480) 898-3333 Add to my Favorites	8.5 Miles	Acute Care Hospitals	Yes
<input type="checkbox"/>	<b>C. ARIZONA SPINE AND JOINT HOSPITAL</b> 4620 EAST BASELINE ROAD MESA, AZ 85206 (480) 832-4770 Add to my Favorites	15.3 Miles	Acute Care Hospitals	No
<input type="checkbox"/>	<b>D. BANNER BAYWOOD MEDICAL CENTER</b> 6644 EAST BAYWOOD AVENUE MESA, AZ 85206 (480) 321-2000 Add to my Favorites	18.1 Miles	Acute Care Hospitals	Yes

# CMS Hospital Compare

<input type="checkbox"/>	<b>R. MERCY GILBERT MEDICAL CENTER</b> 3555 SOUTH VAL VISTA DRIVE GILBERT, AZ 85296 (480) 728-8327  <b>Add to my Favorites</b> 			
<input type="checkbox"/>	<b>S. MOUNTAIN VISTA MEDICAL CENTER, LP</b> 1301 SOUTH CRISMON ROAD MESA, AZ 85209 (480) 358-6100  <b>Add to my Favorites</b> 	23.9 Miles	<b>Acute Care Hospitals</b>	Yes
<input type="checkbox"/>	<b>T. OASIS HOSPITAL</b> 750 NORTH 40TH STREET PHOENIX, AZ 85008 (602) 797-7700  <b>Add to my Favorites</b> 	4.8 Miles	<b>Acute Care Hospitals</b>	No

**Viewing 1 - 20 of 31** First Prev **1** **2** Next Last

**So far you have selected:**

- BANNER DESERT MEDICAL CENTER**
- BANNER HEART HOSPITAL**
- JOHN C LINCOLN DEER VALLEY HOSPITAL**

**Compare Now** 

# CMS Hospital Compare

U.S. Department of Health & Human Services  
**HHS.gov**

Sign In to MyMedicare.gov

Search  Search

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Home Manage Your Health Medicare Basics Resource Locator Help & Support

Medicare.gov → Hospital Compare Home → Hospital Results → Hospital Compare

About Hospital Compare About the Data Resources Help PRINT ALL TABS

## Hospital Compare

<<Return to Previous Page

General Information Patient Survey Results **Timely & Effective Care** Readmissions, Complications & Deaths Use of Medical Imaging Medicare Payment Number of Medicare Patients

	BANNER DESERT MEDICAL CENTER	BANNER HEART HOSPITAL	JOHN C LINCOLN DEER VALLEY HOSPITAL
	1400 SOUTH DOBSON ROAD MESA, AZ 85202 (480) 412-3000	6750 EAST BAYWOOD AVENUE MESA, AZ 85206 (480) 854-5050	19829 NORTH 27TH AVENUE PHOENIX, AZ 85027 (623) 879-5574
	<a href="#">Add to my Favorites</a> <input type="button" value="♥"/>	<a href="#">Add to my Favorites</a> <input type="button" value="♥"/>	<a href="#">Add to my Favorites</a> <input type="button" value="♥"/>
	<a href="#">Map and Directions</a> <input type="button" value="📍"/>	<a href="#">Map and Directions</a> <input type="button" value="📍"/>	<a href="#">Map and Directions</a> <input type="button" value="📍"/>
Hospital Type [?]	Acute Care Hospitals	Acute Care Hospitals	Acute Care Hospitals
Provides Emergency Services [?]	Yes	No	Yes
Registry Type [?]	Cardiac Surgery Registry Stroke Care Registry Nursing Care Registry	Cardiac Surgery Registry Nursing Care Registry	Cardiac Surgery Registry Nursing Care Registry

# CMS Hospital Compare

caused them.

Please note that the numbers shown here do not take into account the different kinds of patients treated at different hospitals. For this reason, they should not be used to compare one hospital to another.

- Why Hospital Acquired Conditions measures are important.
- Current data collection period.

	<b>BANNER DESERT MEDICAL CENTER</b>  1400 SOUTH DOBSON ROAD MESA, AZ 85202 (480) 412-3000  <a href="#">Add to my Favorites</a>  <a href="#">Map and Directions</a> 	<b>BANNER HEART HOSPITAL</b>  6750 EAST BAYWOOD AVENUE MESA, AZ 85206 (480) 854-5050  <a href="#">Add to my Favorites</a>  <a href="#">Map and Directions</a> 	<b>JOHN C LINCOLN DEER VALLEY HOSPITAL</b>  19829 NORTH 27TH AVENUE PHOENIX, AZ 85027 (623) 879-5574  <a href="#">Add to my Favorites</a>  <a href="#">Map and Directions</a> 
Hospital Acquired Conditions	<a href="#">Get Results for this Hospital</a>	<a href="#">Get Results for this Hospital</a>	<a href="#">Get Results for this Hospital</a>

## Healthcare Associated Infections

Healthcare Associated Infections (HAIs) are serious conditions that occur in some hospitalized patients. Many HAIs occur when devices, such as central lines and urinary catheters, are inserted into the body. Hospitals can prevent HAIs by following guidelines for safe care.

The Central Line Associated Blood Stream Infections (CLABSI) Score is reported using a Standardized Infection Ratio (SIR). This calculation compares the number of central line infections in a hospital's intensive care unit to a national benchmark based on data reported to NHSN from 2006 – 2008. The result is adjusted based on certain factors such as the type and size of a hospital or ICU.

- A score of less than 1 means that the hospital had fewer CLABSIs than hospitals of similar type and size.
- A score of 1 means the hospital's CLABSI score was no different than hospitals of similar type and size.
- A score of more than 1 means the hospital had more CLABSIs than hospitals of similar type and size.

Lower numbers are better. A score of zero (0) – meaning no CLABSIs – is best.

- Why Healthcare Associated Infections (HAIs) measures are important.
- Current data collection period.

[View Graphs](#)

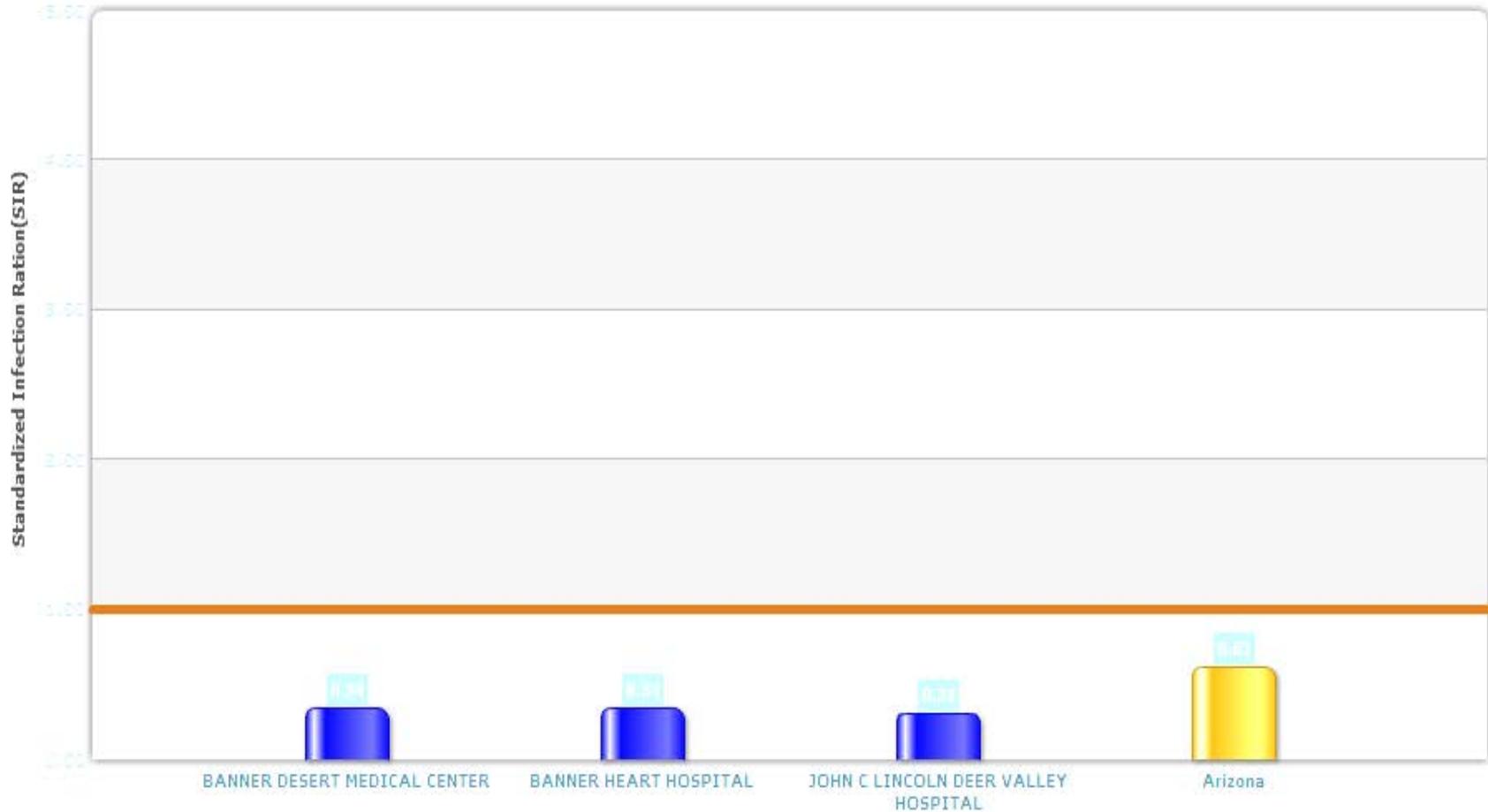
	<b>BANNER DESERT MEDICAL CENTER</b>  1400 SOUTH DOBSON ROAD MESA, AZ 85202 (480) 412-3000  <a href="#">Add to my Favorites</a>  <a href="#">Map and Directions</a> 	<b>BANNER HEART HOSPITAL</b>  6750 EAST BAYWOOD AVENUE MESA, AZ 85206 (480) 854-5050  <a href="#">Add to my Favorites</a>  <a href="#">Map and Directions</a> 	<b>JOHN C LINCOLN DEER VALLEY HOSPITAL</b>  19829 NORTH 27TH AVENUE PHOENIX, AZ 85027 (623) 879-5574  <a href="#">Add to my Favorites</a>  <a href="#">Map and Directions</a> 
Central Line Associated Blood Stream Infections (CLABSI)	Better than the U.S. National Benchmark	Better than the U.S. National Benchmark	Better than the U.S. National Benchmark

<sup>4</sup> Suppressed for one or more quarters by CMS

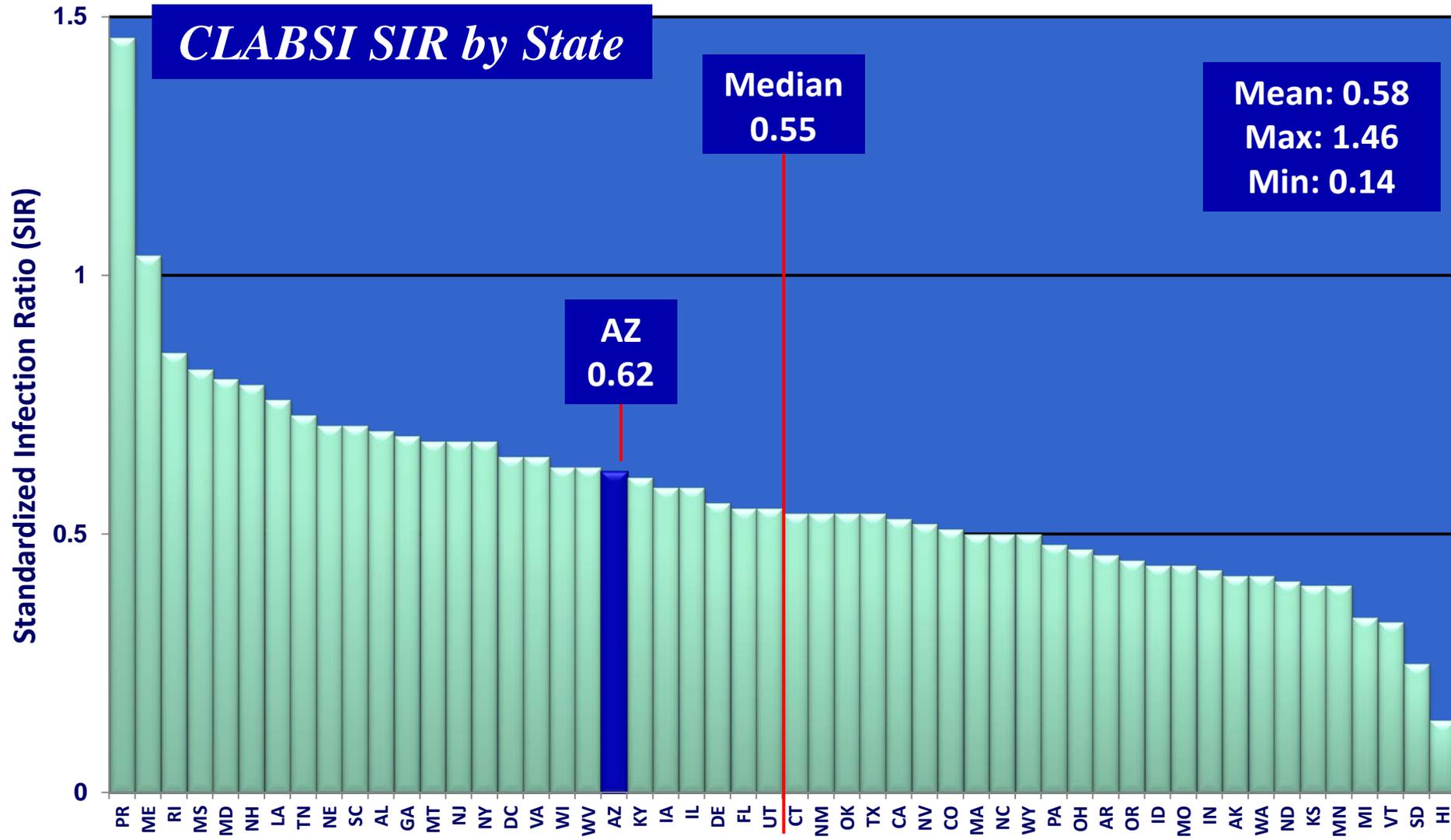
<sup>5</sup> This column shows the number of patients with Original Medicare who were admitted to the hospital for heart attack, heart failure or pneumonia conditions. The hospital may also have

# CMS Hospital Compare

Central Line Associated Blood Stream Infections (CLABSI)  
National Benchmark=1  
[Why is this important?](#)



# CMS Hospital Compare (1Q–3Q 2011, Posted July 2012)

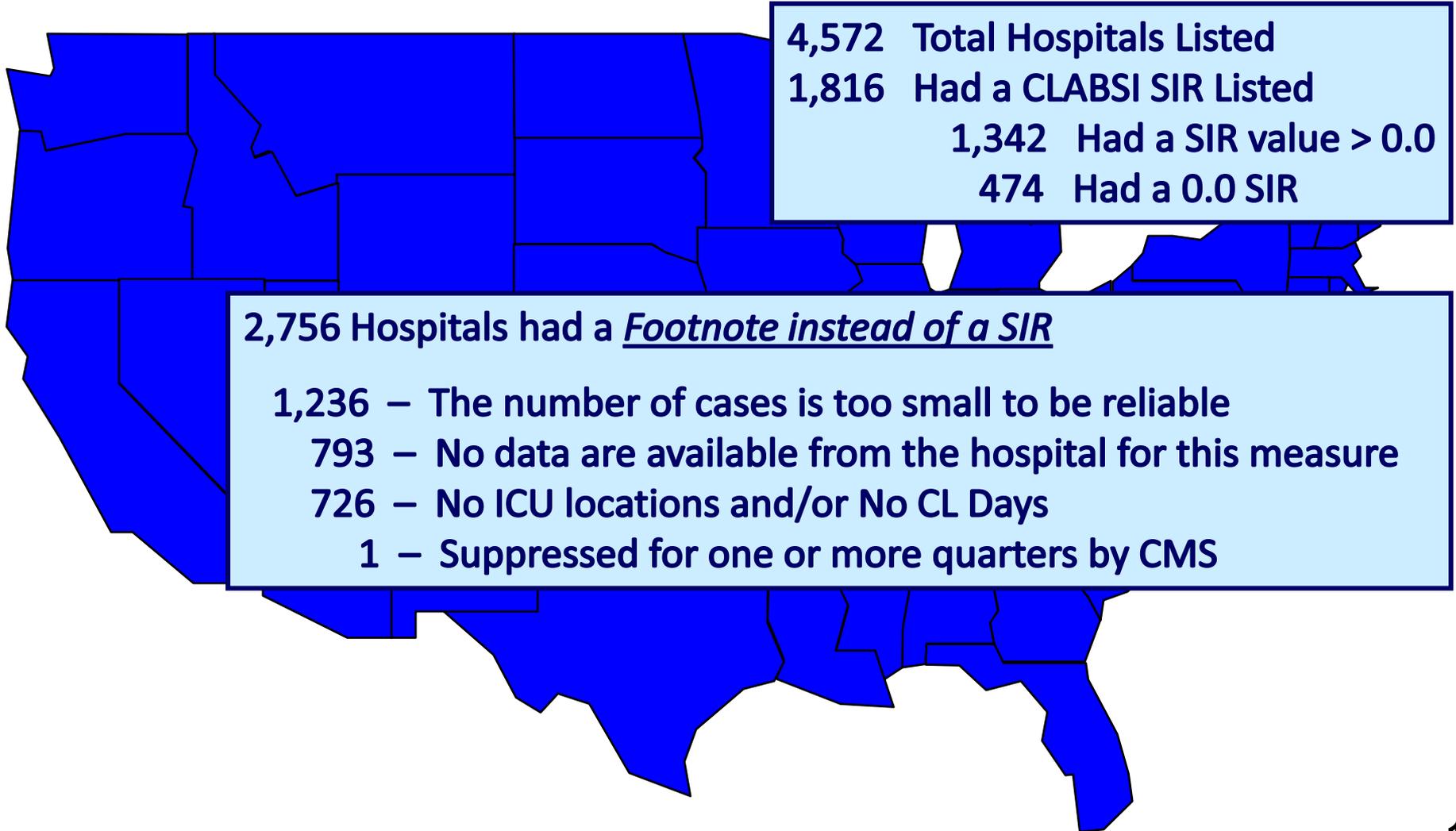


Note: U.S. mean is the average of the individual State SIRs.

# National Hospital Compare CLABSI Data

(1Q–3Q 2011, Posted July 2012)

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# National Hospital Compare CLABSI Data (1Q–3Q 2011, Posted July 2012)

SIR Distribution Among 1,816 Hospitals that  
Had a CLABSI SIR Listed

<u>SIR Value</u>	<u># Hospitals</u>	<u>% Hospitals</u>
= 0.00	474	26%
> 0.00 & < 1.00	1,015	56%
= 1.00	8	<1%
> 1.00 & < 1.99	262	14%
= 2.00 & < 2.99	42	2%
≥ 3.00	15	1%

No AZ Hospital was > 2.0

# *Let's Look at the Arizona HAI Landscape*



# Arizona Hospital Compare CLABSI Data (1Q – 3Q 2011, Posted July 2012)

75 Total Hospitals Listed  
41 Had a CLABSI SIR Listed  
    26 Had a SIR value > 0.0  
    15 Had a 0.0 SIR

34 Hospitals had a Footnote instead of a SIR  
    8 – No ICU locations and/or No CL Days  
    13 – No data are available from the hospital for this measure  
    13 – The number of cases is too small to be reliable



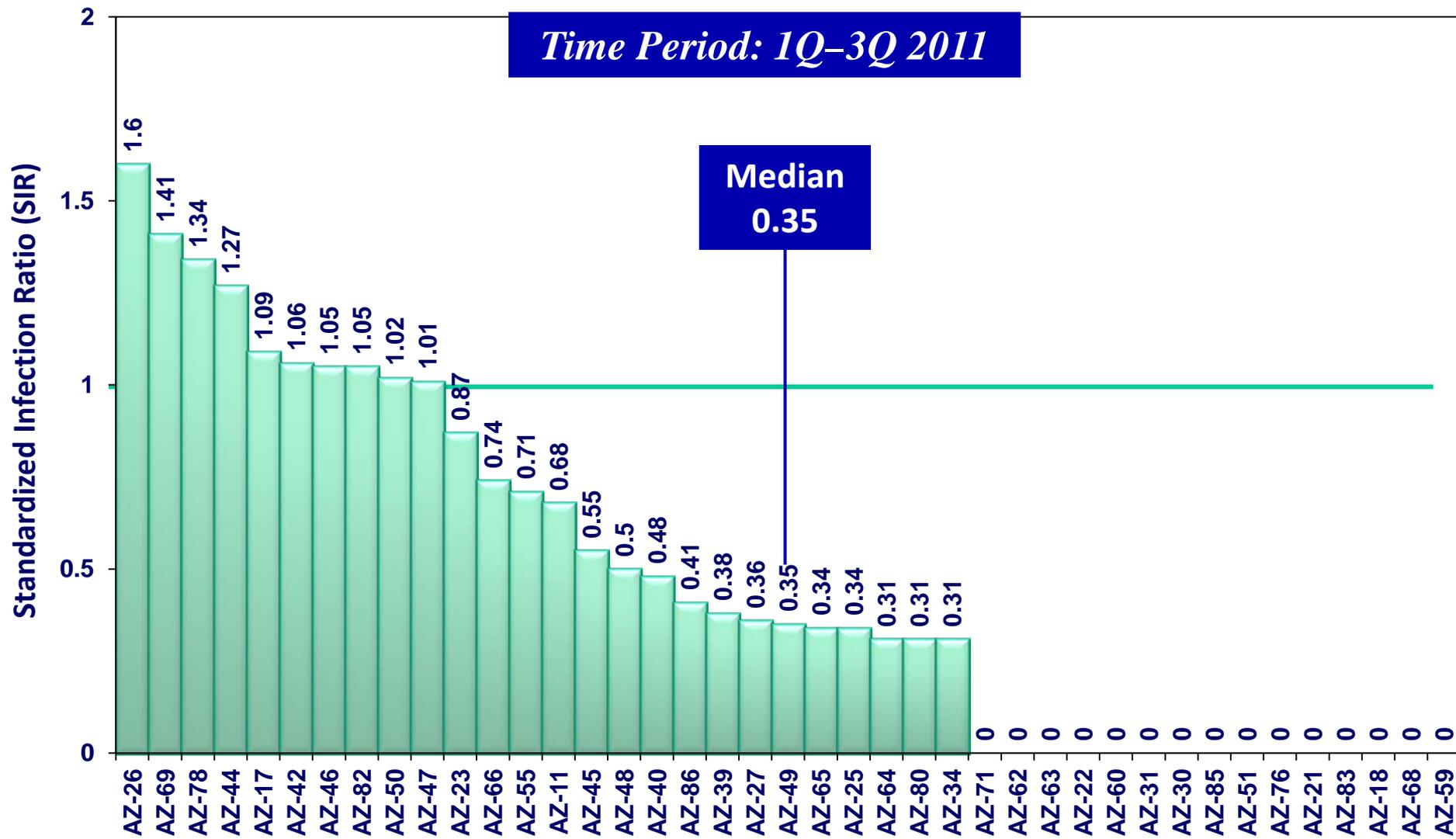
# Arizona Hospital Compare CLABSI Data (1Q – 3Q 2011, Posted July 2012)

SIR Distribution Among 41 Hospitals that  
Had a CLABSI SIR Listed

<u>SIR Value</u>	<u># Hospitals</u>	<u>% Hospitals</u>
= 0.00	15	37%
> 0.00 & < 1.00	16	39%
= 1.00	0	0%
> 1.00 & < 1.99	10	24%
= 2.00 & < 2.99	0	0%
≥ 3.00	0	0%

**In Comparison,  
SIR > 1.0 = 17% in U.S.**

# Arizona CLABSI SIR by Hospital



Source: Hospital Compare, July 2012 update.

# Arizona CLABSI SIR by Year and Data Source

## NATIONAL AND STATE HEALTHCARE-ASSOCIATED INFECTIONS STANDARDIZED INFECTION RATIO REPORT

Using Data Reported to the National  
Healthcare Safety Network



January – December 2010

National Center for Emerging and Zoonotic Infectious Diseases  
Division of Healthcare Quality Promotion



## CDC Annual SIR Report

- 0.44 2009 Critical Care CLABSI SIR  
1 to 4 Reporting Hospitals
- 0.86 2010 Critical Care CLABSI SIR  
22 Reporting Hospitals

## CMS Hospital Compare

- 0.62 1Q–3Q 2011 Critical Care  
CLABSI SIR  
41 Reporting Hospitals

## AZ NHSN Group

- 0.605 2011 Critical Care CLABSI SIR  
56 AZ Reporting Hospitals  
123 Critical Care Units

# CLABSI Rates & Device Utilization by Location-Type

## Critical Care Units (CCU)

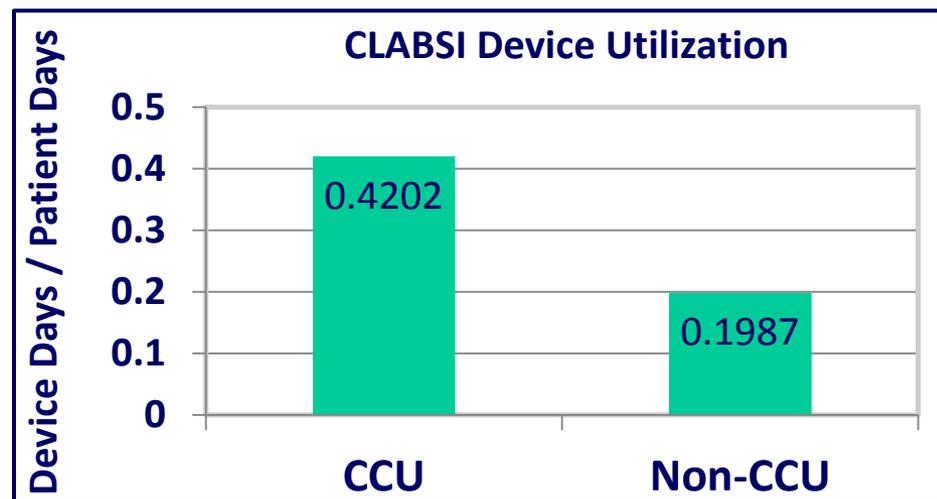
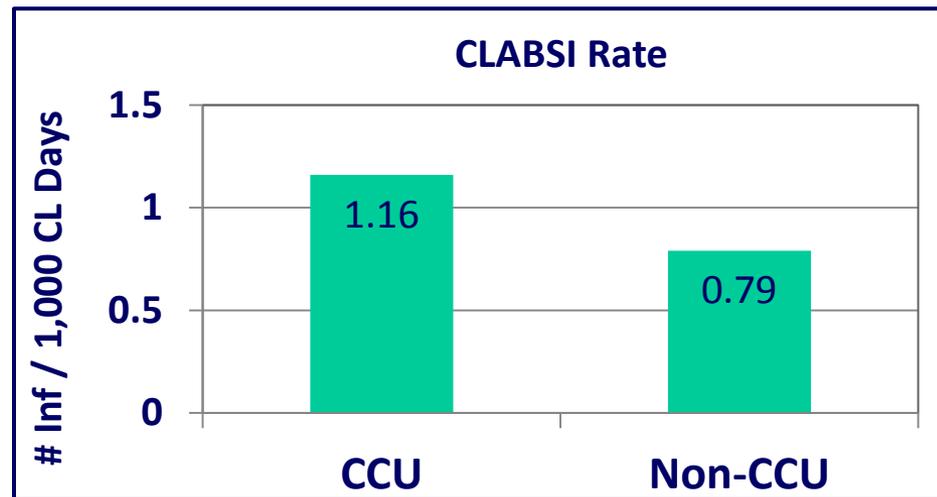
### 56 Hospitals

- 34 have 1 CCU  
8 have 2 CCUs  
10 have 6-9 CCUs
- 56 Medical/Surgical Critical Care  
45 Neonatal Critical Care (Level II/III)  
8 Surgical Cardiothoracic Critical Care  
5 Pediatric Medical/Surgical Critical Care  
5 Neonatal Critical Care (Level III)

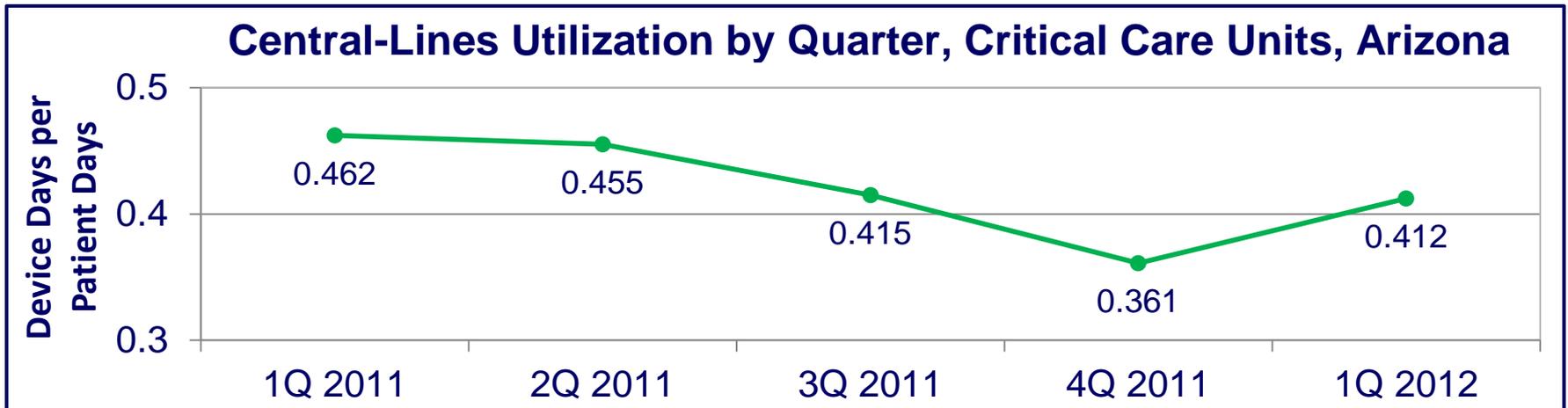
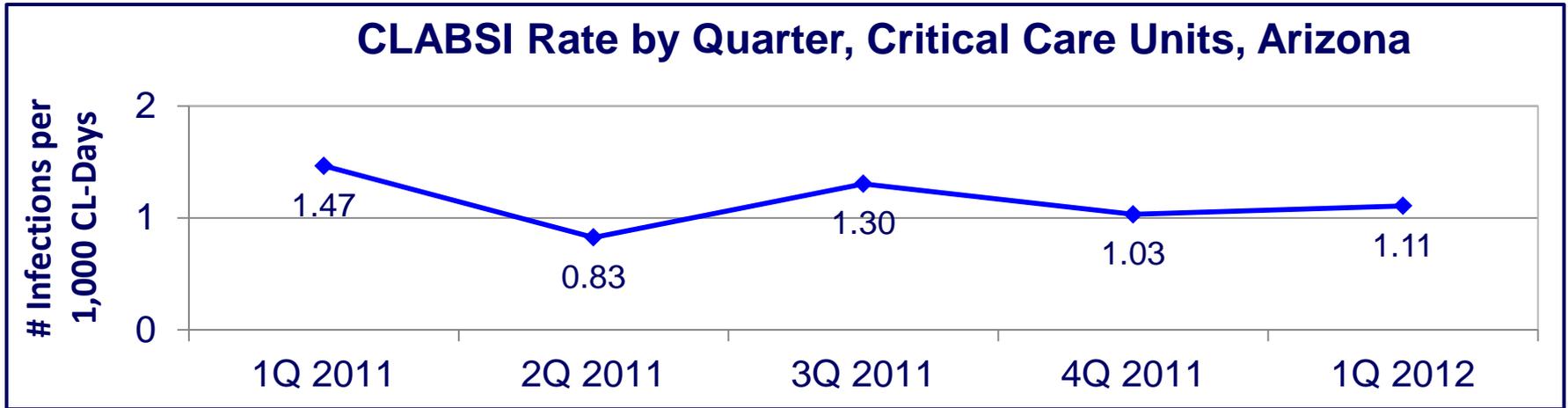
## Non-Critical Care Units (Non-CCU)

### 8 Hospitals

- 5 report 1-3 NCCUs  
3 report 9-13 NCCUs
- 9 Medical/Surgical Wards  
6 Step Units  
4 Telemetry Wards  
23 Other Units



# Quarterly Trend in Central-Line Utilization and BSIs

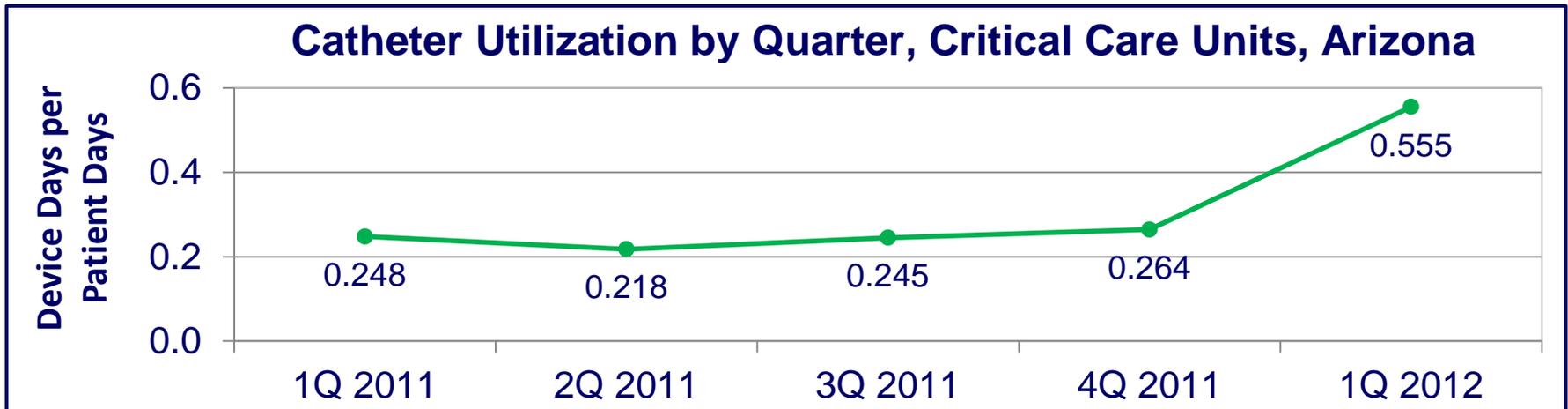
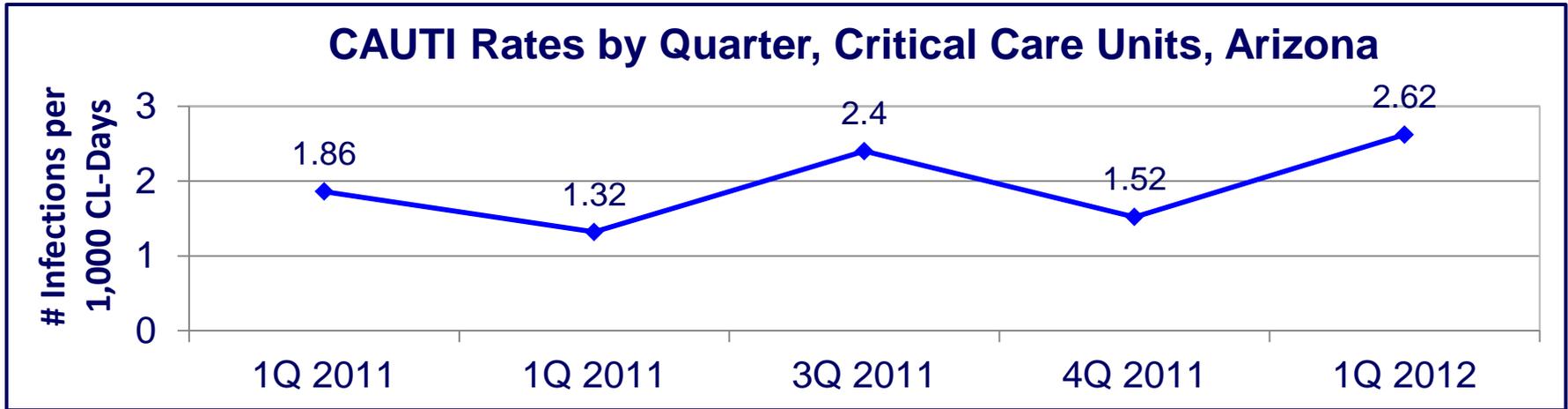


# The CLABSI Data behind the Graph

## Summary of Arizona Critical Care Units – Reporting CLABSI

Quarter	BSIs	Device Days	Patient Days	DU	Units Reporting	Rate / 1000
1Q 2011	80	54600	118138	0.462	123	1.47
2Q 2011	42	50854	111755	0.455	125	0.83
3Q 2011	61	46778	112743	0.415	121	1.30
4Q 2011	52	50396	139590	0.361	124	1.03
1Q 2012	59	53250	129165	0.412	132	1.11

# Quarterly Trend in Catheter Utilization and UTIs



# The CAUTI Data Behind the Graph

## Summary of Arizona Critical Care Units – Reporting CAUTI

Quarter	UTIs	Device Days	Patient Days	DU	Units Reporting	Rate / 1000
1Q 2011	45	24196	97632	0.248	80	1.86
2Q 2011	26	19720	90508	0.218	82	1.32
3Q 2011	54	22525	91930	0.245	83	2.40
4Q 2011	48	31509	119184	0.264	81	1.52
1Q 2012	148	56433	101666	0.555	79	2.62

# Summary

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- Data Reporting: *Hospital Compare* is one result
  - Consumer choices/empowerment
  - Measure performance and reward (and penalize)
  - Identify high performers and spread best practices
  
- Arizona NHSN Group
  - Monitor NHSN reporting to ensure hospitals meet CMS requirements
  - Review statewide statistics to identify opportunities to improve care and focus resources
  - Provide quarterly hospital-specific feedback reports for internal quality improvement

## Contact Information

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