



AFL 11-23: Changes in Method for Reporting Surgical Site Infections

Statewide Webinars
March 2011

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Objectives

- Review mandates for SSI reporting
- Describe changes in SSI reporting methods, effective April 1, 2011

SB 1058 SSI Reporting Requirements

Commencing January 1, 2009, Health and Safety Code Section 1288.55 requires hospitals to:

- Report quarterly to the department all healthcare-associated surgical site infections of deep or organ space surgical site infections, following orthopedic, cardiac, and gastrointestinal surgical procedures designated clean and clean-contaminated



SB 1058 SSI Reporting Requirements

By January 1, 2012, the law requires CDPH to post on its website:

- Information regarding the incidence rate of deep or organ space surgical site infections, following orthopedic, cardiac, and gastrointestinal surgical procedures designated as clean and clean-contaminated, acquired at each hospital in California.



HSC Section 1288.5 (c)(1) - Must follow risk adjustment process consistent with NHSN methods

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Special Edition!

October 2010, Updated
December 2010



vention (CDC)

NEWS

Your Guide to the Standardized Infection Ratio (SIR)

With the new version of NHSN (version 6.3), new output options are available that will permit the calculation of standardized infection ratios (SIRs) for central line-associated bloodstream infection (CLABSI) and surgical site infection (SSI) data. Each of these measures fall in line with the State-Specific Healthcare-associated Infections Summary Data Report, published by CDC. For SSIs, we will make the transition from SSI rates to the SSI SIR with this new version of the NHSN tool. The SSI SIR is the result of logistic regression modeling that considered all procedure-level data collected by NHSN facilities in order to provide better risk adjustment than afforded by the risk index. In addition, the SSI SIR provided to facilities within NHSN will be more precise and be calculated only if appropriate for comparisons. As we make this transition, we understand that you will have numerous questions, including how to operationalize this new statistic in your facility to drive prevention practices. This guide is intended to answer some of these questions.

STANDARDIZED INFECTION RATIO (SIR)

What is a standardized infection ratio (SIR)?

The standardized infection ratio (SIR) is a summary measure used to track HAIs at a national, state, or local level over time. The SIR adjusts for patients of varying risk within each facility. The method of calculating an SIR is similar to the method used to calculate the Standardized Mortality Ratio (SMR), a summary statistic with broad

CDPH New SSI Reporting Method

- Commencing April 1, 2011, CDPH will only accept data entered through NHSN
- NHSN protocols must be followed
 - NHSN requires reporting superficial, deep, and organ space infections
 - Only deep and organ space infections will be publicly reported by CDPH
- NHSN information, training, protocols and forms are available at

www.cdc.gov/nhsn/psc_pa



Sample Reporting Form for Surgical Site Infections (v3a)†

Name of Facility: _____

Quarter (circle one) 1 2 3 4 Year of Report: _____

Update of prior quarterly report _____

Facility NHSN ID#: _____

Name of Person Completing _____

Please print legibly

Contact Information:

Email: _____ Phone: _____

For surgeries performed on or after April 1, 2011, CDPH will no longer accept forms for reporting SSI

| Healthcare associated Surgical Site Infections (SSIs) | Number of Cases | Denominator |
|---|-----------------|-----------------|
| 1. Deep or organ/space SSIs not reported through NHSN | | # of procedures |
| A. Orthopedic (consider total knee/hip) | | |
| B. Cardiac (consider <u>mediastinitis</u> following CABG) | | |
| C. GI (consider colon resection) | | |
| D. | | |
| E. | | |

Comments:

Upon completion, please email this to infectioncontrol@cdph.ca.gov

or

fax to "HAI Program" at (510) 699-3999

Required SSI Reporting as of April 1, 2011

- Must follow CABG and hip prosthesis procedures if performed

| Description | Operative Procedure | ICD-9-CM Codes |
|--|--|--|
| Arthroplasty of hip | Hip prosthesis (HPRO) | 00.70-00.73, 00.85-00.87, 81.51-81.53 |
| Chest procedure to perform direct revascularization of the heart; includes obtaining suitable vein from donor site for grafting. | Coronary artery bypass graft with both chest and donor site incisions and Coronary artery bypass graft with chest incision only (CBCB, CBGC) | 36.10-36.14, 36.19 36.15-36.17, 36.2 |
| Chest procedure to perform direct vascularization of the heart using, for example, the internal mammary (thoracic) artery | | <i>Note typo in AFL correct = "CBGB"</i> |

Required SSI Reporting as of April 1, 2011

- If not performing CABG or hip prosthesis surgeries, select procedure(s) from list*
- Every hospital must report SSI for 2 procedures
- Selection based on hospital risk assessment, considering
 - Volume per year (>25)
 - Rate of infection
- Guidance on procedure selection available through the HAI Liaison Program**



- *AFL 11-23, Appendix A: NHSN Operative Procedures
- ** Designated Liaison IP list found at www.cdph.ca/HAI



Required SSI Reporting as of April 1, 2011

- Must follow ALL the ICD-9 codes associated with the selected surgical procedure

Attachment A: NHSN Operative Procedures

Example

| NHSN Operative Procedure Categories – FY 2010 Update | | | | |
|---|-----------------|----------------------------|---|--|
| Legacy Code | New Code | Operative Procedure | Description | ICD-9-CM Codes |
| KPRO | 2124-6 | Knee prosthesis | Arthroplasty of knee | 00.80-00.84, 81.54, 81.55 |
| <u>FX</u> | 2129-5 | Open reduction of fracture | Open reduction of fracture or dislocation of long bones that requires internal or external fixation; does not include placement of joint prosthesis | 79.21, 79.22, 79.25, 79.26, 79.31, 79.32, 79.35, 79.36, 79.51, 79.52, 79.55, 79.56 |

AFL 11-23, Appendix A: NHSN Operative Procedures

Required SSI Reporting as of April 1, 2011

- Hospitals that do not expect to perform ANY of the listed procedures* in 2011 should notify CDPH by email

InfectionControl@cdph.ca.gov

*AFL 11-23, Appendix A: NHSN Operative Procedures



Required SSI Reporting as of April 1, 2011



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National Healthcare Safety Network (NHSN)

www.cdc.gov/nhsn/TOC [PSCManual](#)

NHSN

- Join NHSN
- About NHSN
- Communication Updates
- Enrollment Requirements
- Patient Safety Component
- Healthcare Personnel Safety Component
- Biovigilance Component
- Data Collection Forms
- Training
- Data & Statistics
- Resource Library
- Clinical Document Architecture
- NHSN Manuals
- **Patient Safety Manual**
- Healthcare Personnel Safety Manual

[NHSN](#) > [NHSN Manuals](#)

NHSN Patient Safety Component Manual

[NHSN Forms Update](#)

[Vaccination Module Update](#)

The **HRIIV Module** is being replaced with the **Updated Vaccination Module** back in a few weeks.

Table of Contents

1. [NHSN Overview](#) [PDF - 52KB]
April 2010
2. [Identifying Healthcare-associated Infections \(HAIs\) in NHSN](#) [PDF - 84KB]
March 2009.
3. [Patient Safety Monthly Reporting Plan](#) [PDF - 26KB]
November 2009.

Device-Associated Module

4. [Central Line-Associated Bloodstream Infection \(CLABSI\) Event](#) [PDF - 169KB]

Procedure-Associated Module

9. [Surgical Site Infection \(SSI\) Event](#) [PDF - 258KB]
Guidelines and procedures for monitoring SSI.
October 2010

Must follow NHSN protocols for identifying and reporting SSI and procedure information



Required SSI Reporting as of April 1, 2011

- To enable risk adjustment, specific data must be reported for every procedure performed

Examples: patient ID, gender, procedure date, wound class, ASA score, duration of surgery, emergent Y/N

- NHSN awaiting OMB approval to change forms and streamline procedure data requirements

NHSN Procedure Data Entry - Options

From least (once implemented) to most labor-intensive

1. **Clinical document architecture (CDA) electronic document transfer** – implemented by vendor
2. **Comma separate value (CSV) file import using electronic data** – multiple procedures uploaded at one time; can be developed in hospital with data from existing systems
3. **CSV file import requiring manual data preparation** – some manual entry onto spreadsheet until required data available electronically
4. **Manual data entry** – record-by-record data collection



NHSN - National Healthcare Safety Network

- NHSN Home
- Reporting Plan
 - Add
 - Find
- Patient
- Event
- Procedure
- Summary Data
- Import/Export
- Analysis
- Surveys
- Users
- Facility
- Group
- Log Out

Logged into California General Hospital (ID 15633) as SUECHEN.
Facility California General Hospital (ID 15633) is following the PS component.

Add Monthly Reporting Plan

✔ No data found for April, 2011

1st Step in NHSN:
Add to Reporting Plan

Mandatory fields marked with *

Facility ID*:

Month*:

Year*:

No NHSN Patient Safety Modules Followed this Month

Device-Associated Module [?HELP](#)

Locations CLA BSI DE VAP CAUTI CLIP

| | | | | | |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Procedure-Associated Module [?HELP](#)

| Procedures | SSI | Post-procedure PNEU |
|---|---|----------------------|
| <input type="text" value="CBGB/CBGC - Coronary artery bypass graft"/> | <input type="text" value="IN - Inpatient"/> | <input type="text"/> |
| <input type="text" value="HPRO - Hip prosthesis"/> | <input type="text" value="IN - Inpatient"/> | <input type="text"/> |

Multi-Drug Resistant Organism Module [?HELP](#)

Locations

Logged into California General Hospital (ID 15633) as SUECHEN.
Facility California General Hospital (ID 15633) is following the PS component.

View Procedure

Mandatory fields marked with *

Fields required when in Plan marked with *

Patient Information [?HELP](#)

Facility ID*: California

Patient ID*: 68799

Social Security #:

Last Name:

Middle Name:

Gender*: F - Female

Ethnicity:

Race: American
 Black
 White

Procedure Information [?HELP](#)

NHSN Procedure Code*: CBGB - Coronary bypass w/ chest & donor incisions

ICD-9-CM Code:

Procedure Date*: 05/04/2010 **Procedure Linked**

Procedure Details [?HELP](#)

Outpatient*: N - No Duration (Hrs:Mins)*: 4 : 0

Wound Class*: C - Clean General Anesthesia*: Y - Yes

ASA Class*: 2 - Patient with mild systemic disease

Emergency*: N - No Trauma*: N - No Endoscope*: N - No


Surgeon Code:

Implant*: N - No Non-autologous Transplant*: N - No

Custom Fields [?HELP](#)

Based on your SSI Reporting Plan, enter data for each Procedure performed

These data comprise the denominator for SSI surveillance and enable risk adjustment

 NHSN Home

Reporting Plan


Patient

Event

Procedure

 Add

 Find

 Incomplete

Summary Data

Import/Export

Analysis

Surveys

Users

Facility

Group

Log Out

- NHSN Home
- Reporting Plan
- Patient
- Event
 - Add
 - Find
 - Incomplete
- Procedure
- Summary Data
- Import/Export
- Analysis
- Surveys
- Users
- Facility
- Group
- Log Out

Logged into California General Hospital (ID 15633) as SUECHEN.
 Facility California General Hospital (ID 15633) is following the PS component.

Add Event

Mandatory fields marked with *
 Fields required for record completion marked with >
 Fields required when in Plan marked with >

Note: These fields generally "No"

Patient Information [HELP](#)

Facility ID*: California General Hospital (ID 15633) Event #:

Patient ID*:

Social Security #: Secondary ID:

Last Name: First Name:

First Name:

Gender*: Date of Birth*:

City:

Race: American Indian/Alaska Native Asian
 Black or African American Native Hawaiian/Other Pacific Islander
 White

Required to report "LabID Events" not perform "Infection Surveillance"

Required to report only inpatient procedures

Event Information [HELP](#)

Event Type*: SSI - Surgical Site Infection Date of Event*:

NHSN Procedure Code*: HPRO - Hip prosthesis

ICD-9-CM Code: Outpatient Procedure*: N - No

Procedure Date*: *Event is not Linked*

MDRO Infection Surveillance*: No, this event pathogen/location is not in-plan for MDRO/CDAD Module

Location:



- NHSN Home
- Reporting Plan
- Patient
- Event
- Procedure
- Summary Data
- Import/Export
- Analysis
- Surveys
- Users
- Facility
 - Customize Forms
 - Facility Info
 - Add/Edit Component
 - Locations
 - Surgeons
- Group
- Log Out

Logged into California General Hospital (ID 15633) as SUECHEN.
Facility California General Hospital (ID 15633) is following the PS component.

Surgeons

[? HELP](#)

Instructions

- To **Add** a record, fill in the form with the required fields and any desired optional values. Then click on the **Add** button.
- To **Find** a record, click on the **Find** button. One or more fields can be filled in to restrict the search to that record.
- To **Edit** a record, perform a **Find** on the desired record. Click on the desired record to fill in its values in the form. After you make the changes, click on the **Save** button.
- To **Delete** one or more records, perform a **Find** on the desired record. Click on the desired record to fill in its values in the form. After you make the changes, click on the **Delete** button.
- Press the **Clear** button to start over with a new form.

Mandatory fields to "Add" or "Edit" a record marked with *

Surgeon Code*:

Last Name:

First Name:

Middle Name:

Status*: Active

Surgeon-specific information not required

Consider use for internal quality review efforts

-

“SSI: Finding, Reporting, Analyzing” Workshops

Offered by HAI Liaison Program



Northern CA

| | | | |
|----------|-------------|------------------------------------|-------------------------------|
| March 16 | Truckee | Tahoe Forest Hospital | Lynn Janssen |
| March 17 | Roseville | Adventist Health (by invitation) | Starr Fenn, Sue Chen |
| March 21 | Oakland | Summit Hospital | Starr Fenn, Sue Chen |
| March 23 | Fresno | Fresno Heart and Surgical Hospital | Lynn Janssen, Mr Terry Nelson |
| March 23 | Napa | Saint Helena Hospital Campus | Starr Fenn, Sue Chen |
| March 24 | Modesto | Memorial Medical Center | Lynn Janssen, Mr Terry Nelson |
| March 29 | San Jose | O'Connor Hospital | Lynn Janssen, Mr Terry Nelson |
| April 5 | Chico | Enloe Medical Center | Mr Terry Nelson |
| April 12 | Bakersfield | Kern Medical Center | Teresa Nelson, Lynn Janssen |
| TBD | Sacramento | TBD | Mr Terry Nelson, Sue Chen |

Southern CA

| | | | |
|----------|-----------------|---|-----------------------------|
| March 15 | LA County | LA Endowment Center | Teresa Nelson, Vicki Keller |
| March 15 | San Luis Obispo | Sierra Vista Regional Medical Center (NHSN Definitions only) | Linda Becker |
| March 18 | Los Angeles | Providence Health | Vicki Keller |
| March 23 | San Clemente | Saddleback Hospital | Tracy Lanier |
| March 29 | San Diego | Scripps Green Hospital | Tracy Lanier, Teresa Nelson |
| March 31 | Poway | Pomerado Hospital | Tracy Lanier, Teresa Nelson |
| April 19 | San Luis Obispo | Sierra Vista Hospital Educational Center | Linda Becker |
| April 26 | Goleta | APIC-El Camino | Linda Becker |
| April 26 | Los Angeles | APIC-Greater LA (Data Validation) | Vicki Keller |
| April 29 | Palm Springs | TBD | Linda Becker, Teresa Nelson |

See www.cdph.ca.gov/HAI for more information and schedule updates

Anticipated Questions

1. How do I report SSI for the first quarter of 2011?

CDPH will accept SSI data on sample form for surgeries performed prior to April 1, 2011, as evidence of compliance with statutory reporting requirement

Fax or email as per prior quarters



2. Why do we have to report superficial SSI when that is not in the legislation?

Legislation requires reporting of “all deep or organ space surgical site infections” **AND** requires that reported SSI data be risk adjusted

CDPH cannot risk adjust SSI data unless reported through NHSN

NHSN requires reporting of superficial, deep, and organ space SSI

CDPH will include only deep and organ space infections in the public report



Questions?

For more information, please contact

Your HAI Liaison Infection Preventionist

or

510 412 6060

infectioncontrol@cdph.ca.gov

