

California Department of Public Health Surgical Site Infection (SSI) Quality Assurance/Quality Control Report

Using NHSN Analysis to Review and Confirm “Total Procedures”

To verify the numbers of Total Procedures included in your CDPH QA/QC report, you should run your own report using NHSN Analysis features. This document demonstrates step-by-step how to run a frequency of procedures report to confirm the total number of surgical procedures performed at your hospital and entered into NHSN.

SAMPLE: SSI QA/QC Report sent to a hospital by CDPH

PROCEDURE CODE	PROCEDURE DESCRIPTION	MONTHS IN PLAN	MONTHS REPORTED	COMPLEX EVENTS	COMPLETE PROCEDURES	EXCLUDED PROCEDURE	TOTAL PROCEDURES
CARD	Cardiac surgery	6	6	0	37	0	37
CBGB	Coronary bypass graft with chest incision	6	6	0	79	0	79
CBGC	Coronary bypass w/ chest & donor incisions	6	2	0	2	0	2
COLO	Colon surgery	6	6	0	109	0	109

Please note: the examples provided in this document contain screenshots from a fictitious facility with fictitious data.

Always begin by generating a data set prior to using the Analysis features to ensure all data are current.

1. In the NHSN Portal, click Analysis → Output Options → Advanced → Procedure-level Data → CDC Defined Output → Frequency Table – All Procedures → Modify

Patient Safety Component
Analysis Output Options

Expand All Collapse All

- Device-Associated Module
- Procedure-Associated Module
- MDRO/CDI Module - Infection Surveillance
- MDRO/CDI Module - LABID Event Reporting
- MDRO/CDI Module - Process Measures
- MDRO/CDI Module - Outcome Measures
- Vaccination Module
- Antimicrobial Use and Resistance Module
- 3 Advanced
 - Create New custom Option
 - CMS Reports
 - Patient-level Data
 - Event-level Data
 - 4 Procedure-level Data
 - 5 CDC Defined Output
 - Line Listing - All Procedures
 - 6 Frequency Table - All Procedures

Click in order:

1. Analysis
2. Output Options
3. Advanced
4. Procedure-level Data
5. CDC Defined Output
6. Frequency Table – All Procedures
7. Modify

Run Modify Run Modify 7

2. After clicking “Modify”,
 - Give your Output a name if you wish.
 - Select output format. HTML looks nice. If you plan to export to an Excel spreadsheet, choose the “CSV file” format.
 - Use Variable Labels for ease of reading column headers.
 - Choose your time period.
 - Date Variable: procDateYM
 - Beginning: 01/2012
 - Ending: 06/2012

Frequency Table

Analysis Data Set: Procedures Export Analysis Data Set

Modify Attributes of the Output:

Last Modified On: **09/17/2012**

Output Type: **Frequency Table**

Output Name:

Output Title:

Select output format:

Output Format:

Use Variable Labels

Select a time period or Leave Blank for Cumulative Time Period:

Date Variable	Beginning	Ending	
<input type="text" value="procDateYM"/>	<input type="text" value="01/2012"/>	<input type="text" value="06/2012"/>	<input type="button" value="Clear Time Period"/>

Enter Date variable/Time period at the time you click the Run button

- Select a Date Variable. Since we are referencing a short time period, months (procDateYM) would be best.
- Use 01/2012 and 06/2012 for your beginning and ending dates

3. Go to the "Specify Other Selection Criteria"
 - Column 1: Select "outpatient", chose "= N" as a modifier
4. Scroll down to "Other Options"
 - Change 'Row' to 'procCode'
 - Change 'Column' to 'procDateYr'
5. Select "Run"

Specify Other Selection Criteria: 3

[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

outpatient			
= N			

Other Options: 4 [Print Variable Reference List](#)

Selected Variables to include in output:

Row: Column: Page by:

Frequency Table Options:

Table percent - Display cell frequency divided by table total

Missing - Include observations with missing values

Print the table in list form

Two-Way Table Options:

Row Percent - Display cell frequency divided by row total

Column Percent - Display cell frequency divided by column total

Expected - Expected cell frequencies

Chi-square - Test for independence

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Results (output) from NHSN are shown below.

**National Healthcare Safety Network
Frequency Table for All Procedures
As of: September 19, 2012 at 6:07 PM
Date Range: PROCEDURES procDateYM 2012M01 to 2012M06**

Frequency	Table of procCode by procDateYr	
	procCode(Procedure Code)	procDateYr(Procedure~Year)
		2012
		Total
	CARD	37
	CBGB	79
	CBGC	2
	COLO	109
	Total	227

6. Now compare your NHSN report to your QA/QC report (below).

PROCEDURE CODE	PROCEDURE DESCRIPTION	MONTHS IN PLAN	MONTHS REPORTED	COMPLEX EVENTS	COMPLETE PROCEDURES	EXCLUDED PROCEDURES	TOTAL PROCEDURES
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NHSN procedure counts should correspond with the “Total Procedures” column on your QA/QC report.

Note: The bottom of your QA/QC report has the date the data was downloaded from NHSN. If you have modified your data (i.e. added or deleted procedures) since this date, your NHSN report could be different than the QA/QC report generated by CDPH.

*DO NOT CITE OR DISTRIBUTE: These tables contain DRAFT data which are not yet substantiated.
On September 17, 2012 these data were downloaded from NHSN. If you have any data related questions, please feel free to email HAI_DATA@cdph.ca.gov.*