

Analysis in NHSN – A Quick Reference

- **Generating Data Sets**

- Each user in the NHSN has an individual profile and therefore, each user needs to generate his/her own data sets. When a user generates data sets in NHSN, an array of analysis data sets (ADS) is built – these remain unchanged until the user generates new data sets. **This means that to see updated data, the user must generate new data sets!**
- To generate data sets:
 - From the navigation bar, click Analysis > Generate Data Sets
 - On the main page will be information about the date and time of the last generated data sets. If you decide to generate new data sets, your old data sets will be overwritten.

- **Output Options**

- Basic output options for analysis include:
 - Line Listing – a record that includes a line for each patient with date of event, location, etc.
 - Frequency Table
 - Bar Chart
 - Pie Chart
 - Rate Table – stratified by particular variables, a rate table includes the numerator, denominator, a comparison pooled rate from national NHSN data for the corresponding location type and sometimes the facility’s medical school affiliation, and p-values and percentiles comparing your facility’s data to the national data. **If no pooled comparison rate is displayed, there is not enough aggregate data for the location type and event.**

National Healthcare Safety Network

Rate Table for Ventilator-Associated PNEU Data for ICU-Other/SCA

As of: May 14, 2007 at 8:54 AM

Date Range: All VAP_RATESICU_SCA

orgID=10018 locCDC=IN:ACUTE:CC:C

location	summaryYM	VAPCount	numVentDays	VAPRate	VAP_Mean	IDR_pval	IDR_pctl	numPatDays	VentDU	VentDU_Mean	P_pval	P_pctl
ICU/CCU	2006M01	0	.	.	4.4	.	.	644	.	0.25	.	.
ICU/CCU	2007M01	0	43	0.0	4.4	0.8267	10	218	0.20	0.25	0.0460	42
ICU/CCU	2007M02	1	75	13.3	4.4	0.2825	95	246	0.30	0.25	0.0253	63
ICU/CCU	2007M03	0	88	0.0	4.4	0.6774	10	171	0.51	0.25	0.0000	93

Date of aggregate data: Jun 2004

- Run Chart – a basic line plot of values over time for a given measure
- Control Chart – a line plot that displays values of a given measure over time that includes ≥1 additional line to indicate whether or not the measure is in control.

- **Modifying Output**

- You can modify attributes of the output including Output Type (the base of the report being modified), Output Name (controls how the modified report will appear in the output menu), Output Title (what will appear at the top of your output), and Output Format (e.g. PDF, CSV, etc.)
- Modifying the time period – Select the date variable you will use to define the time period for your output and select a beginning and end date. **If you do not select a time period, you will receive cumulative output.**
- Other Selection Criteria:
 - Select a variable from the drop-down menu.
 - After you select a variable, click on the cell directly below the variable name. A “Specify criteria” window will open.
 - Specify values you want to include or exclude from your report. When the selected variable has a defined set of values, you will be able to select them from a drop-down. Otherwise, enter the appropriate value.
 - Save to go back to the Modify screen.
 - To specify multiple selection criteria:
 - Cells within a column will filter data with values meeting the criteria in one OR the other.
 - Cells in the same row will filter data with values meeting the criteria in BOTH cells.
 - Cells in a different column and a different row will filter data with values meeting the criteria in one OR the other.
 - Save As – your custom output will be available from the main analysis menu in a user-defined output folder.

- **Special Reports**

- Under the folder “Advanced” you can:
 - Generate Line Listings of All Patients, All Events, All Procedures, All Summary Data, Patient Safety (Monthly Reporting) Plans, an Antibiogram for all identified pathogens, Facility Enrollment Data, Conferred Rights, and your Hospital Survey.
- Any modified reports that you create can be published and shared with other NHSN users in your facility. Published reports will show up under the folder “Published Output.”