UWTASP

tele-antimicrobial stewardship program

June 4, 2019

Announcements

- Website
- TASP Noon Session

UWTASP

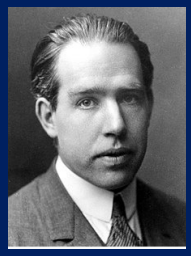
tele-antimicrobial stewardship program

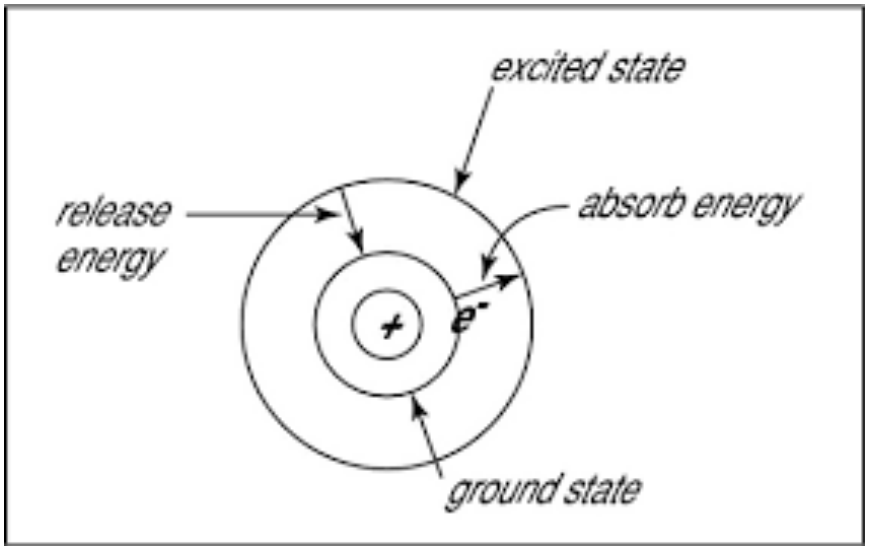
June 4, 2019

Agenda

- Didactic: *NHSN Antibiotic Use Reporting*
- Case Discussions

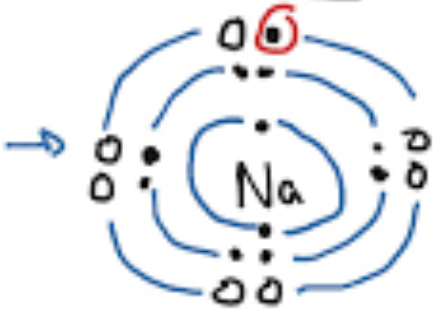
Niels Bohr – Nobel Prize winning Physicist





Shell 1 = 2 "spots"
Shell 2 = 8 "spots"
Shell 3 = 8 "spots"

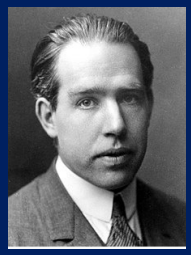
Na - sodium



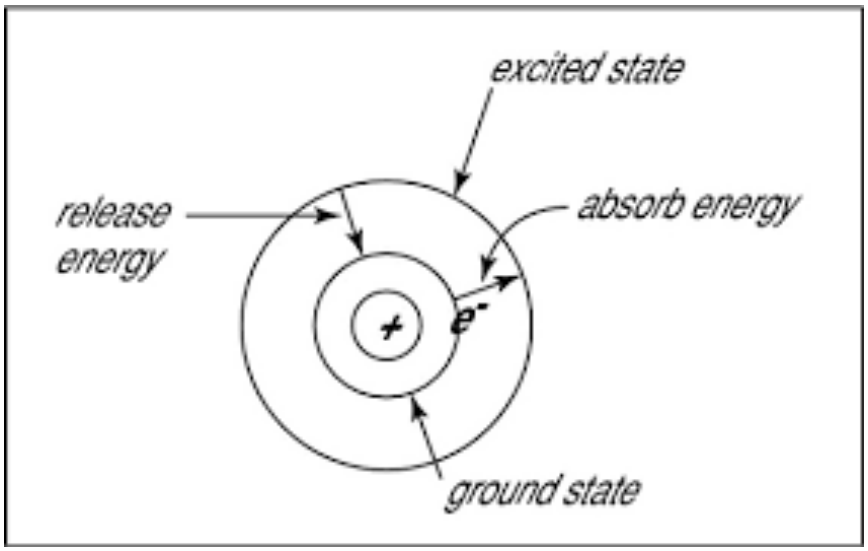
Na 11 p+ 11 e-

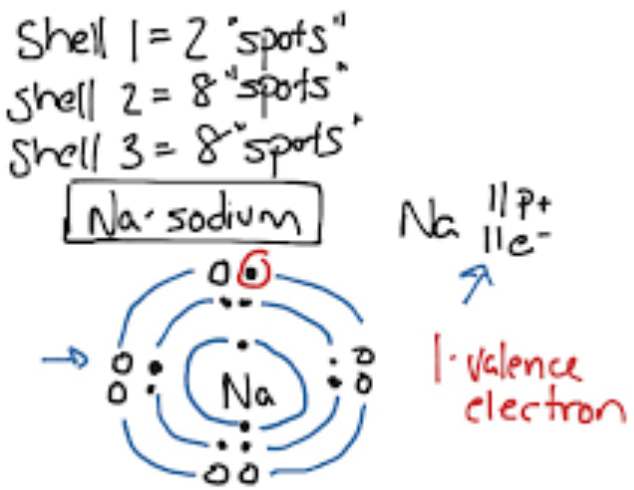
1 - valence electron

Niels Bohr – Nobel Prize winning Physicist



An expert is a person who has made all the mistakes that can be made in a very narrow field





My Institution Reports Antimicrobial Use to the NHSN

Yes

No

Working on it

Not Sure

My Institution Reports Infection Prevention Data to the NHSN

Yes

No

Not Sure

NHSN: Opportunities to Partner with Infection Prevention

Surveillance for Antimicrobial Use and Antimicrobial Resistance Options

Resources for NHSN Users Already Enrolled

- Training +
- Protocols +
- Frequently Asked Questions +
- Data Validation +
- Data Collection Forms +
- Supporting Material +
- Analysis Resources +

NHSN options for surveillance (infection prevention)

Resources to Help Prevent Infections

- HAI Prevention in Long-term Care Settings
- Resources for Patients and Healthcare Providers
- HHS Action Plan to Prevent Healthcare-associated Infections
- Management of Multidrug-Resistant Organisms In Healthcare Settings, 2006
- Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings, 2007
- Guideline for Environmental Infection Control in Healthcare Facilities, 2003
  - See: C. difficile Excerpt

New Users - Start Enrollment Here

Step 1: Enroll into NHSN

Step 2: Set up NHSN

Step 3: Report

Click here to enroll

CMS NHSN Requirements Click here for more information

Clinical Document Architecture CDA

Getting Started…

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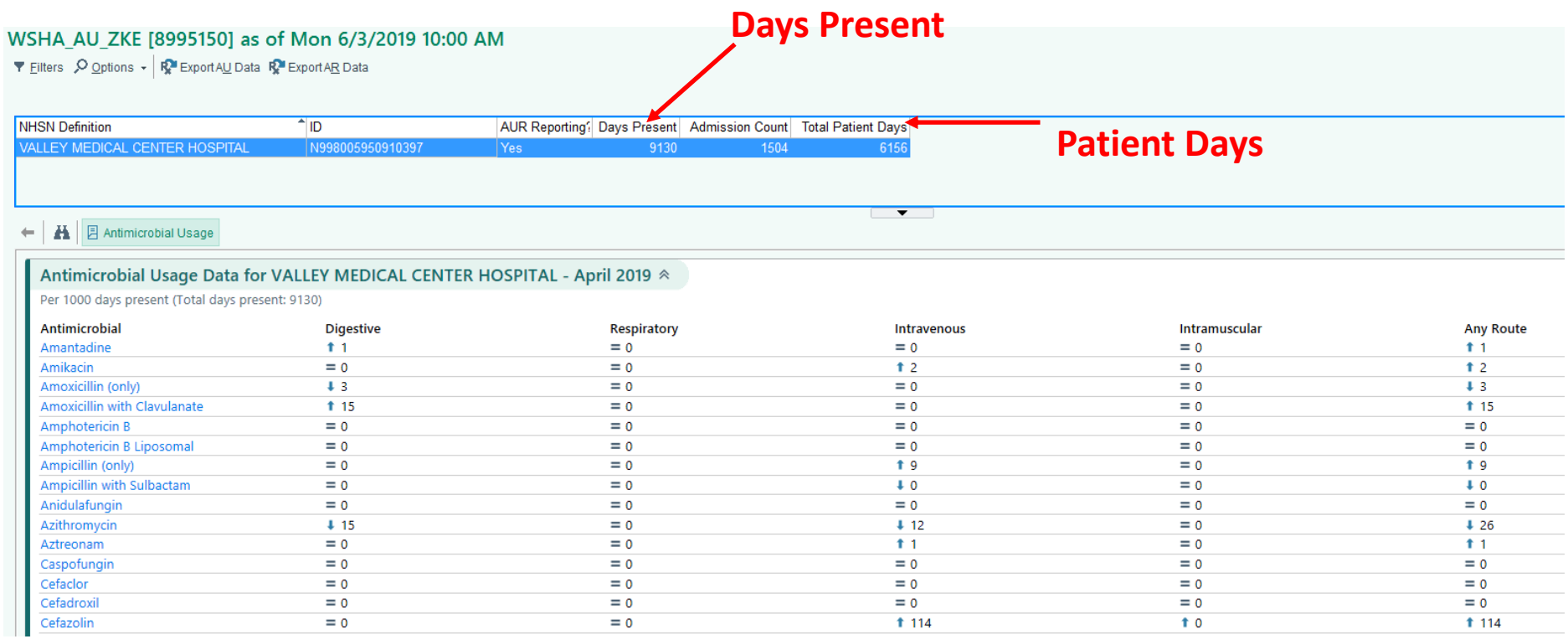
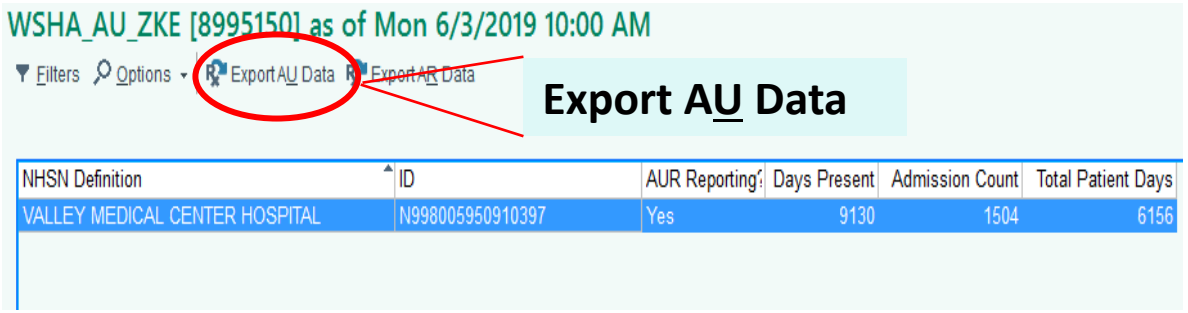
Step 3: Report

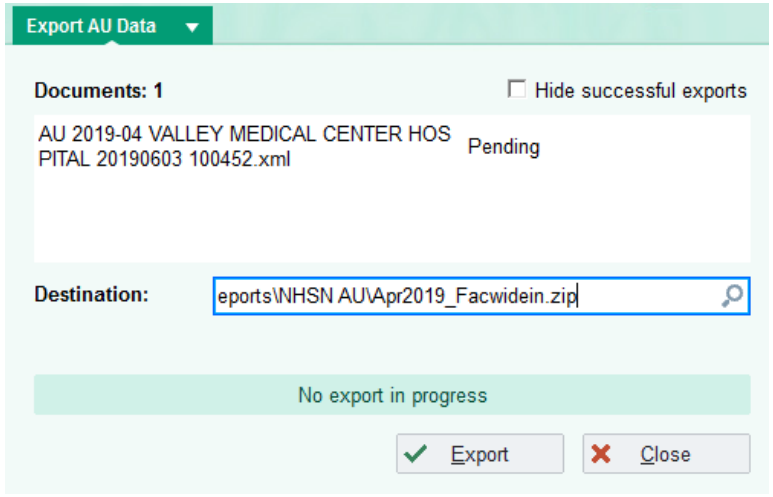
Click here to enroll

https://www.cdc.gov/nhsn/acute-care-hospital/aur/index.html

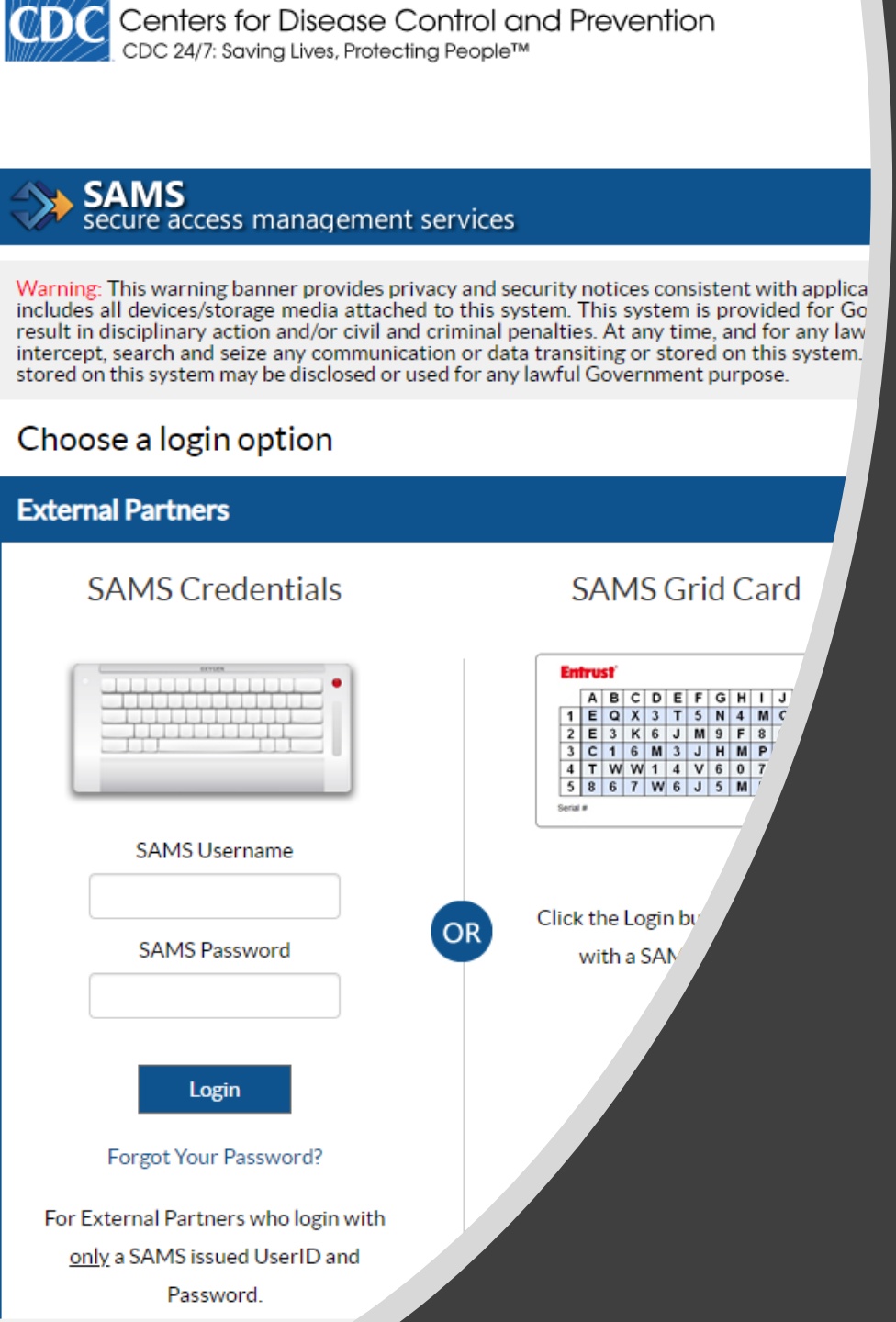


Step 1: Run the Report

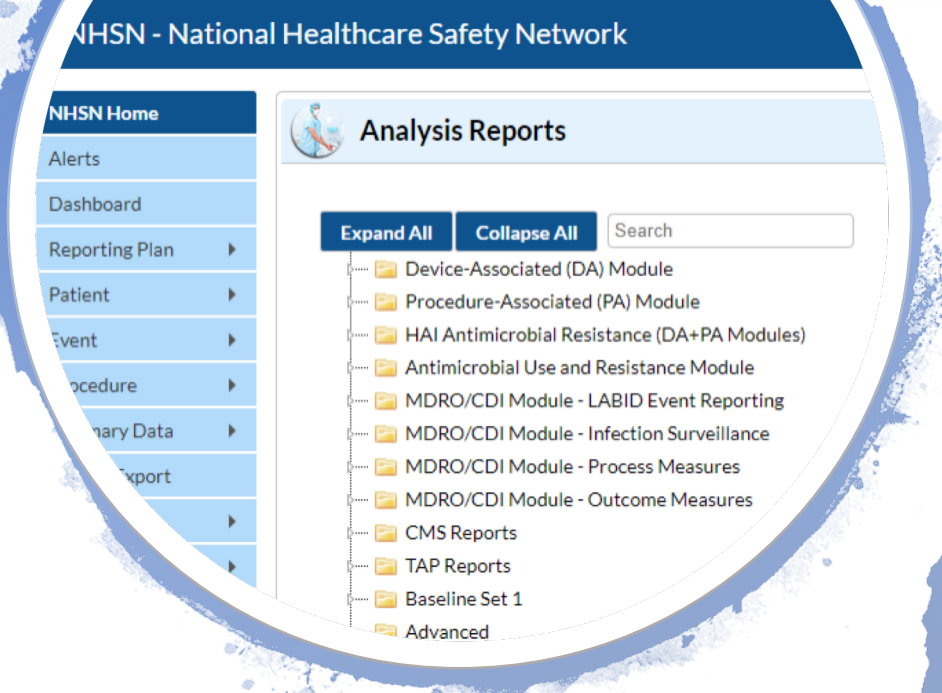


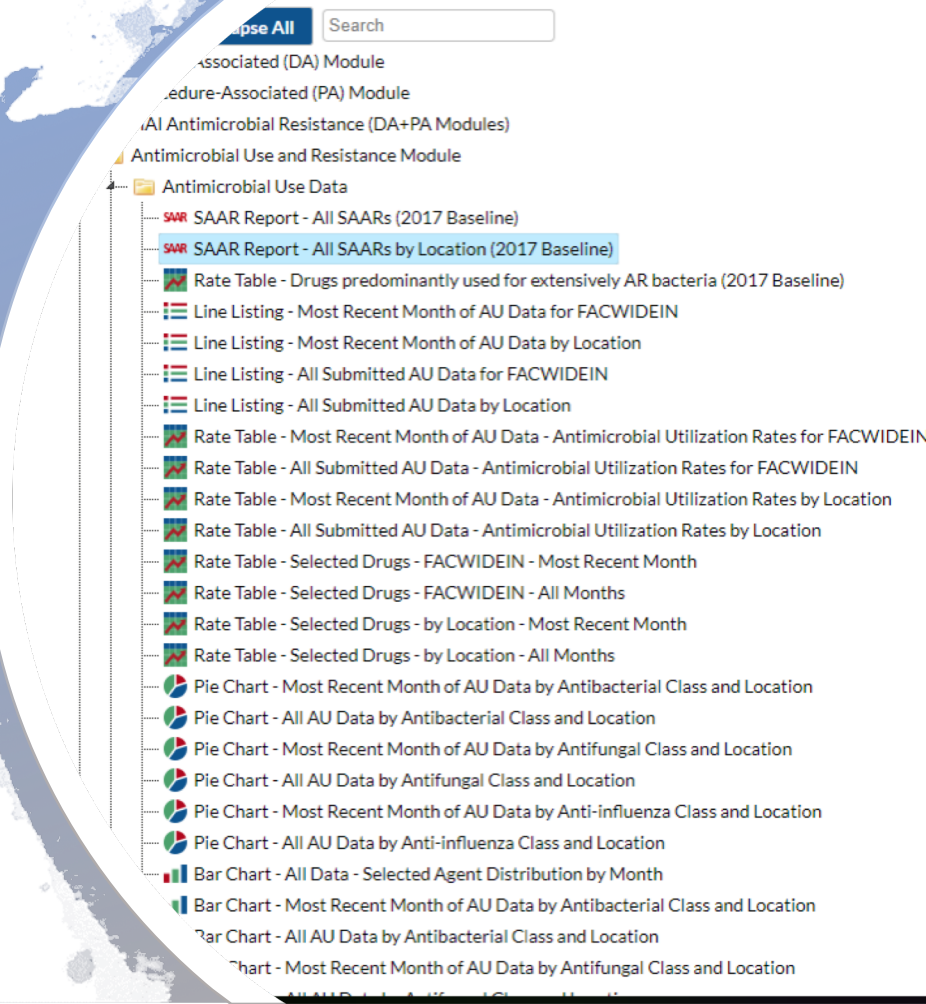


Step 2: Export the Report



Step 3: Upload the Report



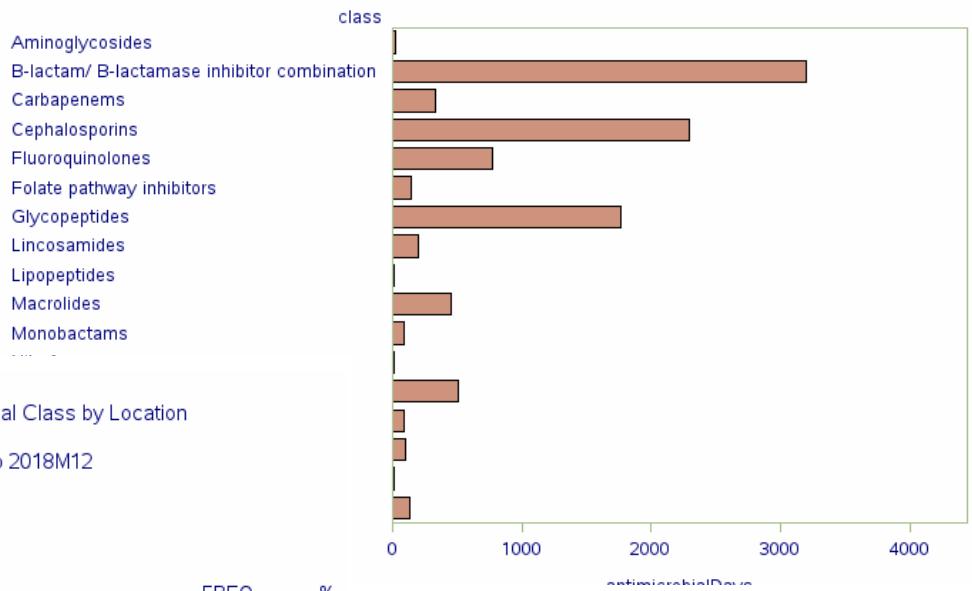


Data Analysis

AU Data

National Healthcare Safety Network

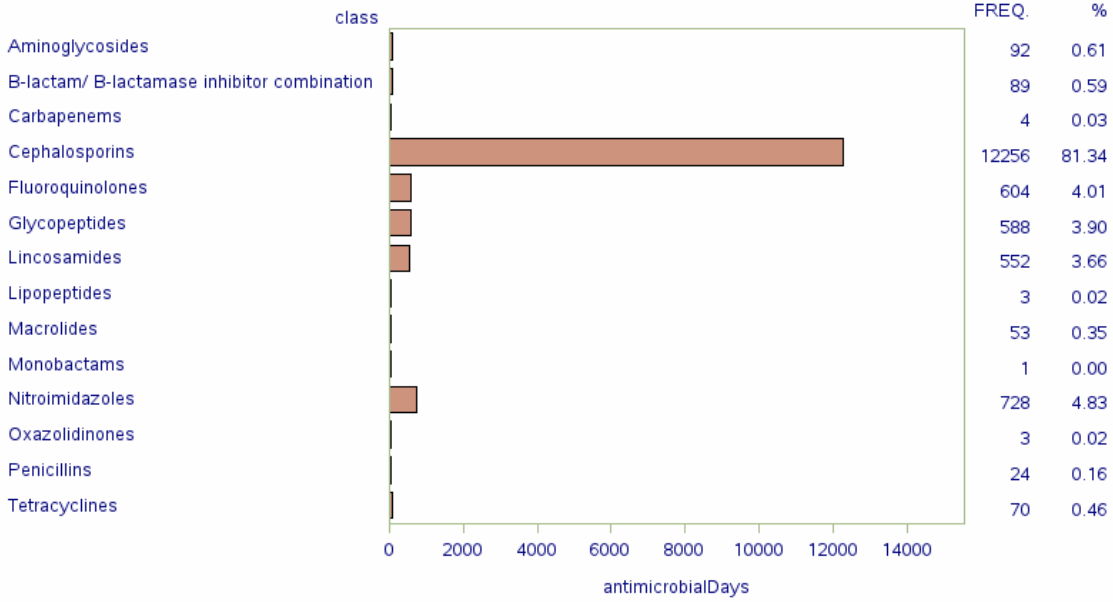
Bar Chart - All Data - Proportion of Antimicrobial Days per Antibacterial Class by Location
As of: June 3, 2019 at 2:04 PM
Date Range: SUMMARYAU summaryYM 2016M01 to 2018M12
if (((category = Antibacterial)))
location=CCU



class	FREQ.	%
Aminoglycosides	27	0.27
B-lactam/ B-lactamase inhibitor combination	3190	31.40
Carbapenems	333	3.28
Cephalosporins	2298	22.62
Fluoroquinolones	778	7.66
Folate pathway inhibitors	151	1.49
Glycopeptides	1762	17.35
Lincosamides	204	2.01
Lipopeptides	15	0.15
Macrolides	452	4.45
Monobactams	88	0.87
	12	0.12
	506	4.98
	95	0.94
	102	1.00
	6	0.06
	139	1.37

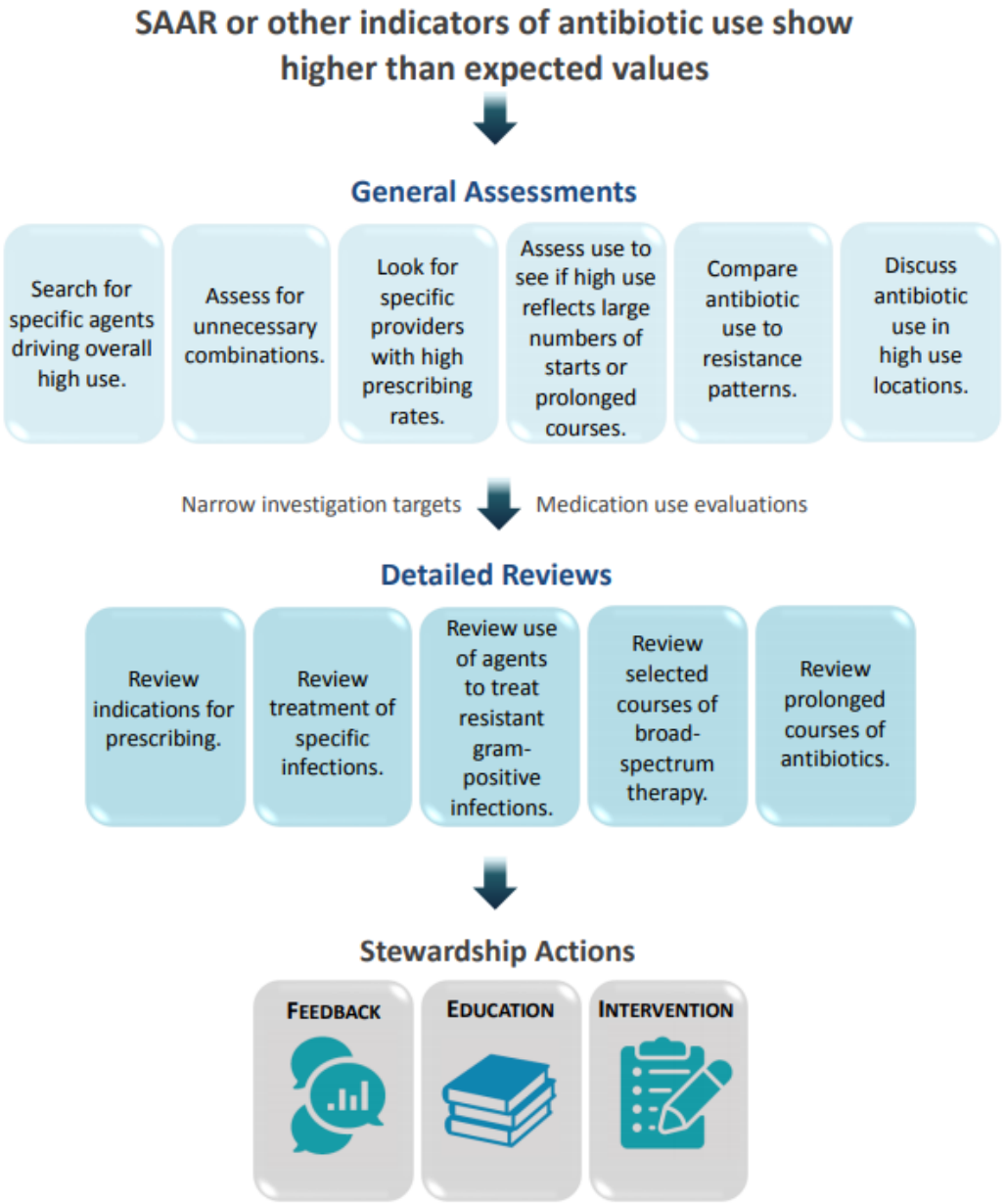
National Healthcare Safety Network

Bar Chart - All Data - Proportion of Antimicrobial Days per Antibacterial Class by Location
As of: June 3, 2019 at 2:04 PM
Date Range: SUMMARYAU summaryYM 2016M01 to 2018M12
if (((category = Antibacterial)))
location=OR



class	FREQ.	%
Aminoglycosides	92	0.61
B-lactam/ B-lactamase inhibitor combination	89	0.59
Carbapenems	4	0.03
Cephalosporins	12256	81.34
Fluoroquinolones	604	4.01
Glycopeptides	588	3.90
Lincosamides	552	3.66
Lipopeptides	3	0.02
Macrolides	53	0.35
Monobactams	1	0.00
Nitroimidazoles	728	4.83
Oxazolidinones	3	0.02
Penicillins	24	0.16
Tetracyclines	70	0.46

SAAR Standardized Antimicrobial Administration Ratio



https://www.cdc.gov/antibiotic-use/healthcare/pdfs/Strategies-to-assess-antibiotic-use-in-hospitals-508.pdf

U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

THE PEW CHARITABLE TRUSTS

Standardized Antimicrobial Administration Ratios (SAARs)

National Healthcare Safety Network

SAARs Table - All Standardized Antimicrobial Administration Ratios (SAARs) High-Level Indicators and High-Value Targets (2017 Baseline)

As of: June 3, 2019 at 2:14 PM
Date Range: All AU_SAAR_2017

Antibacterial agents posing the highest risk for CDI used in adult SAAR wards

Data divided by month

Statistical validity

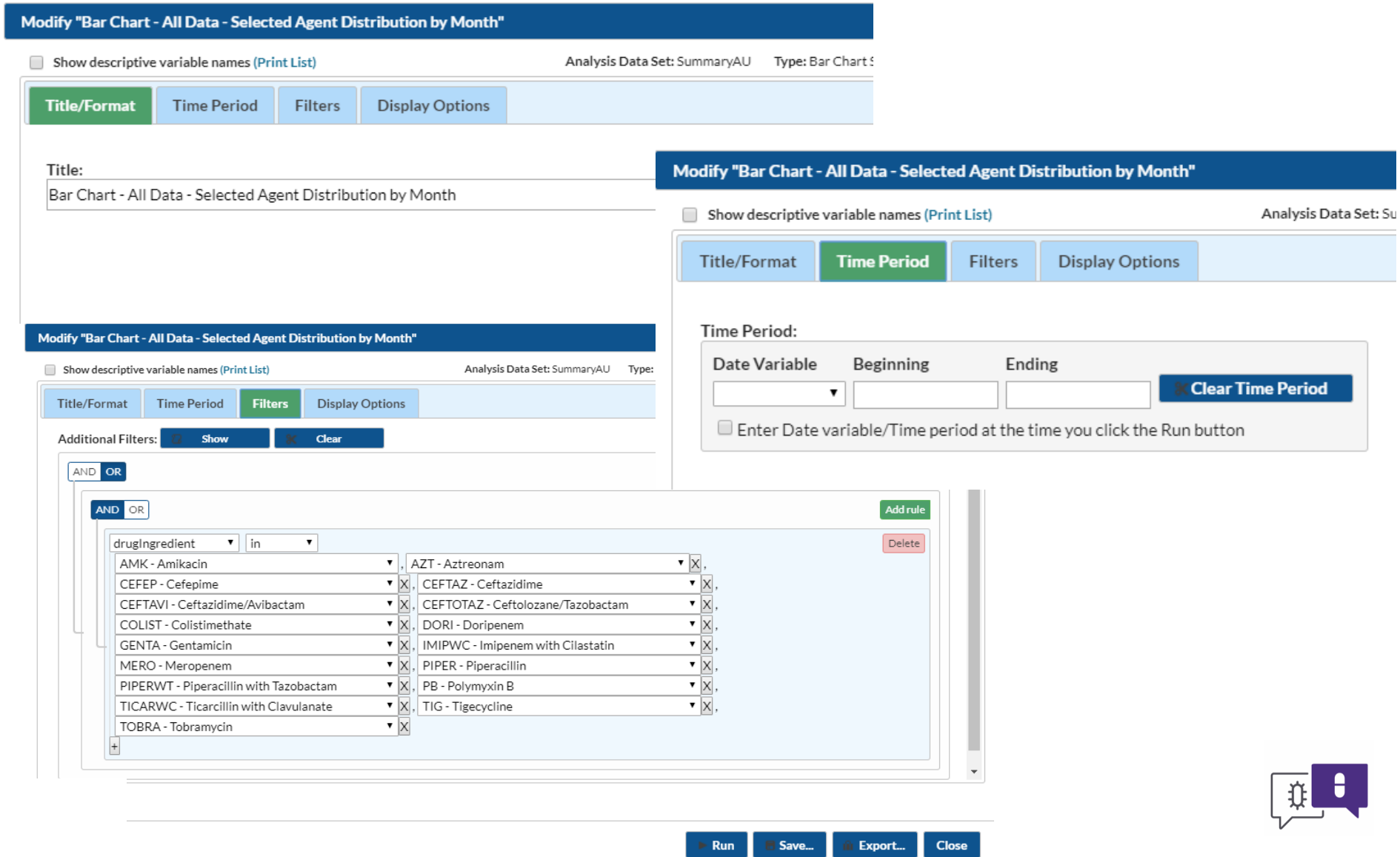
orgID	summaryYM	SAARType_2017	antimicrobialDays	numAUDaysPredicted	numDaysPresent	SAAR	SAAR_pval	SAAR95CI
12944	2017M06	Adult_CDI_Ward_2017	677	811.623	4138	0.834	0.0000	0.773, 0.899
12944	2017M07	Adult_CDI_Ward_2017	739	826.223	4185	0.894	0.0022	0.832, 0.961
12944	2017M08	Adult_CDI_Ward_2017	641	848.024	4334	0.756	0.0000	0.699, 0.816
12944	2017M09	Adult_CDI_Ward_2017	617	858.665	4361	0.719	0.0000	0.664, 0.777
12944	2017M10	Adult_CDI_Ward_2017	663	945.295	4814	0.701	0.0000	0.649, 0.756
12944	2017M11	Adult_CDI_Ward_2017	615	947.077	4809	0.649	0.0000	0.600, 0.702
12944	2017M12	Adult_CDI_Ward_2017	792	965.873	4903	0.820	0.0000	0.764, 0.879
12944	2018M01	Adult_CDI_Ward_2017	873	1000.332	5084	0.873	0.0000	0.816, 0.932
12944	2018M02	Adult_CDI_Ward_2017	605	839.248	4265	0.721	0.0000	0.665, 0.780
12944	2018M03	Adult_CDI_Ward_2017	796	979.697	4991	0.812	0.0000	0.757, 0.870
12944	2018M04	Adult_CDI_Ward_2017	637	916.528	4638	0.695	0.0000	0.643, 0.751
12944	2018M05	Adult_CDI_Ward_2017	621	946.750	4819	0.656	0.0000	0.606, 0.709
12944	2018M06	Adult_CDI_Ward_2017	662	892.638	4534	0.742	0.0000	0.687, 0.800
12944	2018M07	Adult_CDI_Ward_2017	784	921.546	4677	0.851	0.0000	0.793, 0.912
12944	2018M08	Adult_CDI_Ward_2017	737	940.591	4794	0.784	0.0000	0.728, 0.842
12944	2018M09	Adult_CDI_Ward_2017	704	878.142	4459	0.802	0.0000	0.744, 0.863
12944	2018M10	Adult_CDI_Ward_2017	679	922.222	4704	0.736	0.0000	0.682, 0.793
12944	2019M02	Adult_CDI_Ward_2017	684	898.837	4554	0.761	0.0000	0.706, 0.820
12944	2019M03	Adult_CDI_Ward_2017	865	978.359	4948	0.884	0.0002	0.827, 0.945

Ratio: Our use vs. other AU-submitting facilities

Raw data

Includes data for January 2017 and forward.
The SAAR is only calculated if the number of predicted antimicrobial days (numAUDaysPredicted) is >=1.
If antimicrobial days exceed days present for a specific SAAR category, a SAAR will not be calculated and data should be validated for accuracy.
Data restricted to medical, medical-surgical, surgical, step down and oncology locations.
Source of aggregate data: 2017 NHSN AU Data
Data contained in this report were last generated on June 3, 2019 at 1:48 PM.

Data Analysis & Choices



NHSN AU Survival Tips

New Users - Start Enrollment Here

Step 1: Enroll into NHSN

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Click here to enroll

Make friends with IT

Review CDC guides and NHSN videos

Make sure EMR is up to date

Create NHSN Account SAMS Profile – *this takes a LONG time*

Delay if you are moving/ changing name

Submit data, ask questions, experiment with analysis options

Shadow a user (IP, etc)

Send Zahra your successes

zescobar@uw.edu