

National Healthcare Safety Network Antibiotic Use and Resistance Workgroup

March 1st 2024 CDPH Antimicrobial Stewardship Team



Welcome & Introductions

How to Leverage NHSN AUR Data

Data Sharing AU/AR

Antimicrobial Stewardship Infection Control Assessment and Response Tool (ICAR)

Q&A / Open Discussion



How to Leverage NHSN AUR Data

HOW CAN I LEVERAGE THE NHSN ANTIBIOTIC USE DATA TO HELP WITH MY LOCAL STEWARDSHIP EFFORTS?

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HI, IT'S US- WE'RE THE PROBLEM





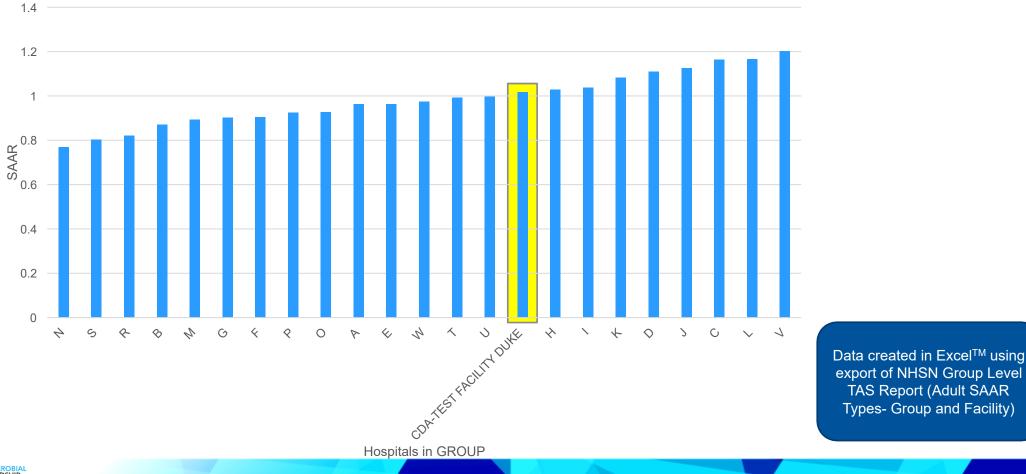
Duke Center for Antimicrobial Stewardship and Infection Prevention



dason.medicine.duke.edu

Do we really use more?

All Antimicrobial SAAR Values for GROUP Facilities

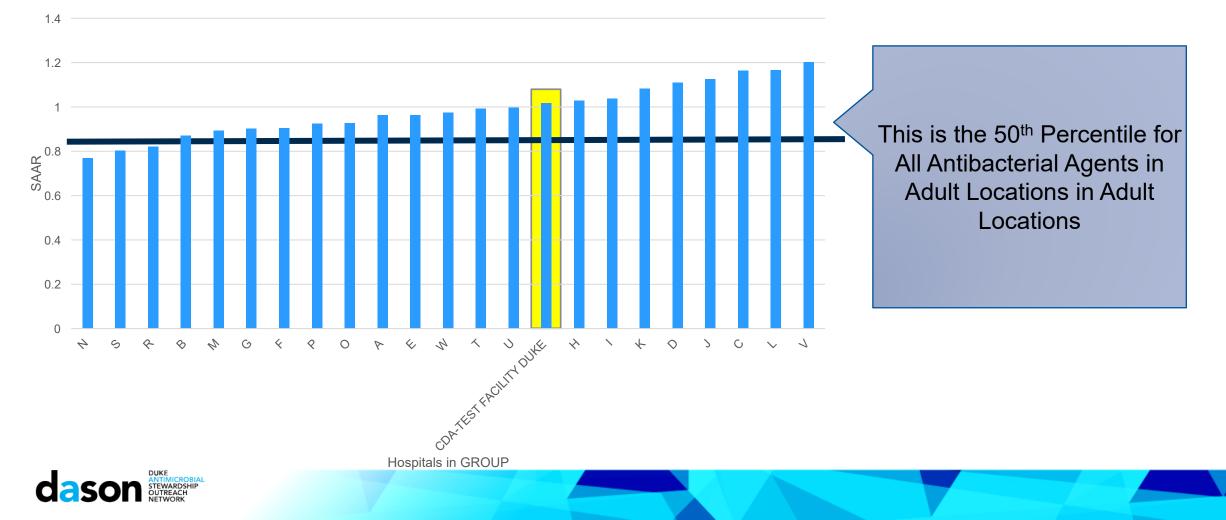


EWARDSHI

export of NHSN Group Level TAS Report (Adult SAAR Types- Group and Facility)

Do we really use more?

All Antimicrobial SAAR Values for GROUP Facilities



Where did that come from?

In addition to the Annual Antibiotic Use Report...

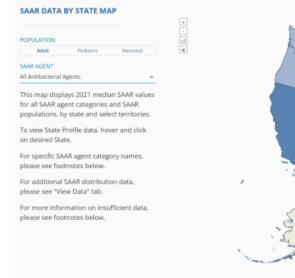


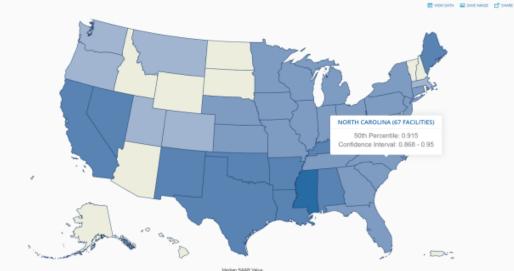
Healthcare-Associated Infections (HAIs)

CDC > Healthcare-associated Infections (HAI) > HAI Data > Data Portal

 Healthcare-associated Infections (HAI)

Antibiotic Resistance & Patient Safety Portal





https://www.cdc.gov/hai/data/portal/AR-Patient-Safety-Portal.html#anchor_1572284811

Search

Q

Slight Detour: A Word About Benchmarks/Risk Adjustment

SAAR BASELINE POPULATION

Calendar year 2017

Adult/Pediatric modeled separately

N units:

- 2156 Adult units (added 2 new unit types)
- 170 Pediatric units

Included hospitals in 49 states

- 449 hospitals in adult models
- 109 hospitals in peds models

This allows time trends with the SAAR

ANNUAL TRENDS

Annual Antimicrobial Use Option Report

- Provides distribution by SAAR category
- AND-use data for individual drugs ③

Antibiotic Resistance & Patient Safety Portal

- Aggregate annual data
- Can drill down to state to make comparisons more local

This allows you see if you are "keeping up" as use trends change with time

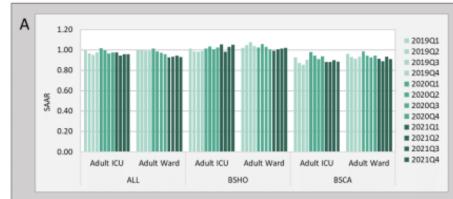


Additional Resources in the Annual AU Option Report

Pooled Mean SAARS

dason Stewardship OUTREACH NETWORK

Figure 2. Select 2019, 2020, and 2021 pooled mean SAARs, by antimicrobial agent category and quarter for A) adult ICUs and wards and B) pediatric ICUs and wards.



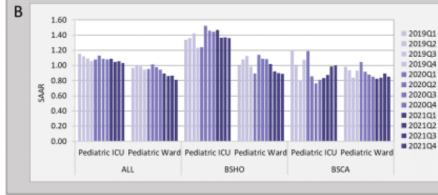


Table 3. Pooled mean SAAR values by adult location type and SAAR antimicrobial agent category.

| | | tegories | | | | | |
|---------------------------------------|----------------------|----------|-------|---------|-------|-------|------------|
| Adult SAAR Location Type | All Antibacterial | взно | BSCA | GramPos | NSBL | CDI | Antifungal |
| Medical ICUs | 0.975 | 1.022 | 0.902 | 0.992 | 0.948 | 1.231 | 1.000 |
| Medical-Surgical ICUs | 0.944 | 1.025 | 0.867 | 0.867 | 0.868 | 1.040 | 0.986 |
| Surgical ICUs | 0.990 | 1.050 | 1.000 | 0.925 | 0.759 | 1.248 | 1.124 |
| Medical Wards | 0.910 | 0.920 | 0.901 | 0.822 | 0.975 | 0.948 | 0.799 |
| Medical-Surgical Wards | 0.938 | 1.036 | 0.897 | 0.840 | 0.978 | 0.958 | 0.858 |
| Surgical Wards | 0.957 | 1.096 | 1.010 | 0.941 | 0.778 | 1.068 | 0.996 |
| Step Down Units | 0.919 | 0.938 | 0.896 | 0.845 | 0.917 | 0.975 | 0.846 |
| General Hematology- Oncology Wards | 0.938 | 0.934 | 0.957 | 0.842 | 0.980 | 1.020 | 0.781 |

Additional Resources in the Annual AU Option Report

Drill Down Tables

| | | | | | _ | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|--|--|---|--|--|--|---|--|---|---|---|---|---|--|---|--|
| | | | | | Perc | entile | distribu | ition of | locatio | on-spe | cific SA | ARs | | | | | | | |
| No. of locations | | | | | | | | | | | | | | | | | | | |
| with ≥1 predicted | | | | | | | | | | | | | | | | | | | |
| antimicrobial day ² | 5th | 10th | 15th | 20th | 25th | 30th | 35th | 40th | 45th | 50th | 55th | 60th | 65th | 70th | 75th | 80th | 85th | 90th | 95th |
| 507 | 0.597 | 0.683 | 0.724 | 0.761 | 0.802 | 0.835 | 0.864 | 0.897 | 0.934 | 0.963 | 0.985 | 1.013 | 1.047 | 1.072 | 1.102 | 1.141 | 1.190 | 1.236 | 1.363 |
| 1,190 | 0.613 | 0.698 | 0.748 | 0.781 | 0.814 | 0.845 | 0.872 | 0.897 | 0.925 | 0.952 | 0.982 | 1.006 | 1.031 | 1.062 | 1.095 | 1.127 | 1.170 | 1.213 | 1.321 |
| 229 | 0.633 | 0.705 | 0.746 | 0.790 | 0.816 | 0.839 | 0.873 | 0.894 | 0.918 | 0.945 | 0.961 | 0.991 | 1.023 | 1.059 | 1.088 | 1.153 | 1.209 | 1.273 | 1.417 |
| 1,748 | 0.476 | 0.606 | 0.669 | 0.711 | 0.755 | 0.792 | 0.826 | 0.855 | 0.885 | 0.912 | 0.938 | 0.968 | 0.998 | 1.026 | 1.067 | 1.107 | 1.158 | 1.234 | 1.348 |
| 2,482 | 0.465 | 0.633 | 0.704 | 0.754 | 0.799 | 0.839 | 0.870 | 0.898 | 0.927 | 0.957 | 0.986 | 1.014 | 1.048 | 1.084 | 1.116 | 1.152 | 1.210 | 1.274 | 1.376 |
| 805 | 0.591 | 0.703 | 0.762 | 0.802 | 0.838 | 0.861 | 0.894 | 0.915 | 0.941 | 0.966 | 0.995 | 1.018 | 1.045 | 1.077 | 1.112 | 1.150 | 1.197 | 1.244 | 1.313 |
| 1,026 | 0.493 | 0.577 | 0.648 | 0.695 | 0.746 | 0.792 | 0.838 | 0.868 | 0.901 | 0.937 | 0.969 | 1.005 | 1.044 | 1.076 | 1.118 | 1.159 | 1.226 | 1.295 | 1.419 |
| 285 | 0.664 | 0.737 | 0.777 | 0.835 | 0.855 | 0.881 | 0.909 | 0.925 | 0.949 | 0.976 | 1.003 | 1.032 | 1.081 | 1.121 | 1.153 | 1.226 | 1.297 | 1.357 | 1.516 |
| | antimicrobial day ² 507 1,190 229 1,748 2,482 805 1,026 | with ≥1 predicted antimicrobial day ² 5th 507 0.597 1,190 0.613 229 0.633 1,748 0.476 2,482 0.465 805 0.591 1,026 0.493 | with≥1 predicted antimicrobial day ² 5th 10th 507 0.597 0.683 1,190 0.613 0.698 229 0.633 0.705 1,748 0.476 0.606 2,482 0.465 0.633 805 0.591 0.703 1,026 0.493 0.577 | with ≥1 predicted antimicrobial day ² 5th 10th 15th 507 0.597 0.683 0.724 1,190 0.613 0.698 0.748 229 0.633 0.705 0.746 1,748 0.476 0.606 0.669 2,482 0.465 0.633 0.704 805 0.591 0.703 0.762 1,026 0.493 0.577 0.648 | with ≥1 predicted 507 508 10th 15th 20th 507 0.597 0.683 0.724 0.761 1,190 0.613 0.698 0.748 0.781 229 0.633 0.705 0.746 0.790 1,748 0.476 0.600 0.669 0.711 2,482 0.465 0.633 0.704 0.754 805 0.591 0.703 0.762 0.802 1,026 0.493 0.577 0.648 0.695 | No. of locations with ≥1 predicted Ith 15th 20th 25th antimicrobial day ² 5th 10th 15th 20th 25th 507 0.597 0.683 0.724 0.761 0.802 1,190 0.613 0.698 0.748 0.781 0.814 229 0.633 0.705 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2021 Data

2021 Antimicrobial Use Option Data Report – November 2022 [PDF – 2 MB]

2021 Antimicrobial Use Option Report Data Tables – November 2022 🚺 [XLS – 436 KB]

Table 2a2. Adult all antibacterial agents SAAR usage by antimicrobial agent (top 10 most commonly used agents) and SAAR location type

| Adult SAAR location | | Pooled antimicrobial | Percentage of antimicrobial |
|-----------------------|----------------------------|-------------------------|--------------------------------|
| type (n) ¹ | Antimicrobial ² | days | days |
| Medical ICUs (n=465) | Vancomycin | 386,209 | 18.2 |
| | Piperacillin/Tazobactam | 333,532 | 15.7 |
| | Cefepime | 291,716 | 13.7 |
| | Ceftriaxone | 243,080 | 11.4 |
| | Meropenem | 169,634 | 8.0 |
| | Metronidazole | 112,249 | 5.3 |
| | Azithromycin | 110,496 | 5.2 |
| | Cefazolin | 61,911 | 2.9 |
| | Doxycycline | 60,059 | 2.8 |
| | Linezolid | 48,813 | 2.3 |



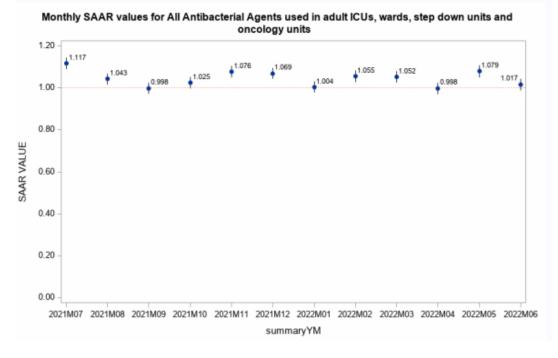
Can I easily get my percentile? Yes!

| orgID | SAARType_2017 | location | summaryYQ | locCDC | antimicrobialDays | numAUDaysPredicted | numDaysPresent | SAAR | SAAR_pval | SAAR95CI | SAAR_pctl |
|-------|------------------------------|----------|-----------|-----------------|-------------------|--------------------|----------------|-------|-----------|--------------|-----------|
| 45032 | Adult_All-Antibacterial_2017 | MED | 2021Q1 | IN:ACUTE:WARD:M | 2214 | 2519.021 | 4272 | 0.879 | 0.0000 | 0.843, 0.916 | 36 |
| 45032 | Adult_All-Antibacterial_2017 | MED | 2021Q2 | IN:ACUTE:WARD:M | 2870 | 2806.777 | 4760 | 1.023 | 0.2369 | 0.986, 1.060 | 62 |
| 45032 | Adult_All-Antibacterial_2017 | MED | 2021Q3 | IN:ACUTE:WARD:M | 2421 | 2812.082 | 4769 | 0.861 | 0.0000 | 0.827, 0.896 | 33 |
| 45032 | Adult_All-Antibacterial_2017 | MED | 2021Q4 | IN:ACUTE:WARD:M | 2579 | 2691.793 | 4565 | 0.958 | 0.0295 | 0.922, 0.996 | 50 |
| 45032 | Adult_All-Antibacterial_2017 | MED | 2022Q1 | IN:ACUTE:WARD:M | 2814 | 2754.885 | 4672 | 1.021 | 0.2644 | 0.984, 1.060 | 61 |
| 45032 | Adult_All-Antibacterial_2017 | MED | 2022Q2 | IN:ACUTE:WARD:M | 2269 | 2608.651 | 4424 | 0.870 | 0.0000 | 0.835, 0.906 | 35 |

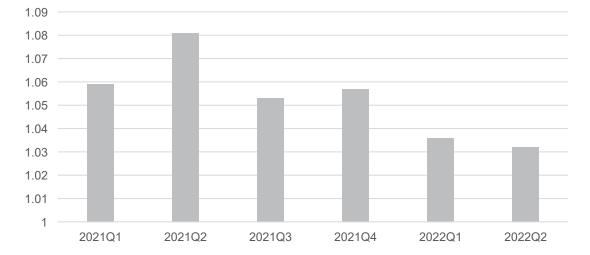
SAAR Report-All Adults and Ped SAARs by Location (2017 Baseline)- modified to by quarter



Wait- Did you Mention Time Trends?



All Anti-bacterial Agents by Quarter



SAAR Plot-All Adult and Pediatric SAARs (2017 baseline)



SO, WE'RE THE PROBLEM WHERE DO I START?





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Drilling Down to Specific Agents

| - - 114 - 11 | | | | | | | | | 95% Confidence |
|--------------------------|-------------|-------------|---------------------------|---|--------------------|------------------------------|--------------|---------------|----------------|
| Facility Name | SAARTypeCat | AU-CAD Rank | Facility AU-CAD (Rounded) | Three highest use drugs within SAAR Type (Percentage) | Antimicrobial Days | Predicted Antimicrobial Days | Days Present | Location SAAR | Interval |
| CDA TEST FACILITY - DUKE | ALL | 1 | 1989 | CEFTRX(17); VANC(14); PIPERWT(13); | 55053 | 53063.896 | 85609 | 1.037 | 1.029, 1.046 |
| | BSCA | 2 | 1514 | CEFTRX(69); LEVO(14); CIPRO(7); | 13330 | 11816.070 | 85609 | 1.128 | 1.109, 1.147 |
| | BSHO | 3 | 843 | PIPERWT(51); CEFEP(32); MERO(15); | 14437 | 13594.403 | 85609 | 1.062 | 1.045, 1.079 |
| | CDI | 4 | 96 | CEFTRX(52); CEFEP(26); LEVO(11); | 17844 | 17747.672 | 85609 | 1.005 | 0.991, 1.020 |
| | GRAMPOS | 5 | -299 | VANC(85); LNZ(8); DAPTO(5); | 8224 | 8523.404 | 85609 | 0.965 | 0.944, 0.986 |
| | ANTIFGL | 6 | -367 | FLUCO(78); MICA(17); ANID(6); | 1574 | 1941.421 | 85609 | 0.811 | 0.771, 0.852 |
| | NSBL | 7 | -437 | CEFAZ(59); AMOXWC(14); AMPIWS(12); | 7133 | 7569.913 | 85609 | 0.942 | 0.921, 0.964 |

| SAARTypeCat | AU- CAD Rank | Facility AU- CAD (Rounded) | Three highest use drugs within SAAR Type (Percentage) |
|-------------|--------------------|----------------------------------|---|
| ALL | 1 | 1989 | CEFTRX(17); VANC(14); PIPERWT(13); |
| BSCA | 2 | 1514 | CEFTRX(69); LEVO(14); CIPRO(7); |
| BSHO | 3 | 843 | PIPERWT(51); CEFEP(32); MERO(15); |
| CDI | 4 | 96 | CEFTRX(52); CEFEP(26); LEVO(11); |
| GRAMPOS | 5 | -299 | VANC(85); LNZ(8); DAPTO(5); |
| ANTIFGL | 6 | -367 | FLUCO(78); MICA(17); ANID(6); |
| NSBL | 7 | · -437 | CEFAZ(59); AMOXWC(14); AMPIWS(12); |

TAS Report-Adult SAAR Types- Facility



Drilling Down to Specific Agents

| | FACILI | FACILITY LOCATION G | | | | | | | |
|--------------------|-----------------------------------|---------------------------------|---------------|-------------|---------------------------|--|---|--|--|
| Facility Org ID | Facility Name | Facility AU-CAD (Rounded) | LocationGroup | SAARTypeCat | Location Group Rank | Location Group AU-CAD (Rounded) | Three highest use drugs within SAAR Type (Percentage) | | |
| 45032 | CDA TEST FACILITY - DUKE | 1989 | WARDS | ALL | 1 | 1985 | CEFTRX(17); VANC(14); PIPERWT(13); | | |
| | | | ONCOLOGY | ALL | 2 | 127 | CEFTRX(19); PIPERWT(13); VANC(12); | | |
| | | | STEPDOWN | ALL | 3 | 35 | CEFTRX(19); CEFEP(13); VANC(13); | | |
| | | | ICUS | ALL | 4 | -158 | PIPERWT(19); VANC(17); CEFTRX(13); | | |

TAS Report-Adult SAAR Types- Location Groups (Separated)



Prioritizing- By Unit

| | FACILITY | | | | | | LOCATION GROUP | | | | | |
|--------------------|-----------------------------|------------------------------|---------------|-------------|------------------------|------------------------------------|--|-----------------------|---------------------------------|-----------------|------------------|-------------------------------|
| Facility Org ID | Facility Name | Facility AU-CAD (Rounded) | LocationGroup | SAARTypeCat | Location Group Rank | Location Group AU-CAD (Rounded) | Three highest use drugs within SAAR Type (Percentage) | Antimicrobial Days | Predicted Antimicrobial Days | Days Present | Location SAAR | 95% Confidence Interval |
| | CDA TEST FACILITY - DUKE | 1350 | ICUS | BSCA | 1 | 157 | CEFTRX(70); LEVO(20); ERTA(5); | 1287 | 1130.155 | 7911 | 1.139 | 1.078, 1.202 |
| | | | | BSHO | 2 | 134 | PIPERWT(51); MERO(26); CEFEP(22); | 2588 | 2453.596 | 7911 | 1.055 | 1.015, 1.096 |
| | | | | ANTIFGL | 3 | 72 | FLUCO(46); MICA(40); ANID(13); | 373 | 301.362 | 7911 | 1.238 | 1.117, 1.368 |
| | | | | CDI | 4 | -153 | CEFTRX(49); CEFEP(30); LEVO(14); | 1843 | 1996.219 | 7911 | 0.923 | 0.882, 0.966 |
| | | | | GRAMPOS | 5 | -209 | VANC(88); LNZ(9); CEFTAR(2); | 1263 | 1472.489 | 7911 | 0.858 | 0.811, 0.906 |
| | | | | NSBL | 6 | -247 | CEFAZ(58); AMPIWS(30); NAF(4); | 437 | 684.103 | 7911 | 0.639 | 0.581, 0.701 |
| | | | STEPDOWN | CDI | 1 | 126 | CEFTRX(52); CEFEP(36); LEVO(4); | 2754 | 2627.581 | 13021 | 1.048 | 1.010, 1.088 |
| | | | | BSHO | 2 | 30 | CEFEP(47); PIPERWT(36); MERO(12); | 2111 | 2081.448 | 13021 | 1.014 | 0.972, 1.058 |
| | | | | BSCA | 3 | 25 | CEFTRX(82); LEVO(7); CEFDIN(5); | 1733 | 1707.727 | 13021 | 1.015 | 0.968, 1.063 |
| | | | | ANTIFGL | 4 | -27 | FLUCO(79); MICA(21); ANID(0); | 211 | 237.654 | 13021 | 0.888 | 0.774, 1.014 |
| | | | | NSBL | 5 | -101 | CEFAZ(34); AMOXWC(21); AMPIWS(15); | 807 | 908.430 | 13021 | 0.888 | 0.829, 0.951 |
| | | | | GRAMPOS | 6 | -176 | VANC(90); LNZ(5); DAPTO(4); | 1035 | 1210.900 | 13021 | 0.855 | 0.804, 0.908 |
| | | | WARDS | BSCA | 1 | 1121 | CEFTRX(66); LEVO(15); CIPRO(8); | 8549 | 7428.174 | 54520 | 1.151 | 1.127, 1.175 |
| | | | | BSHO | 2 | 737 | PIPERWT(56); CEFEP(30); MERO(11); | 7891 | 7154.396 | 54520 | 1.103 | 1.079, 1.128 |
| | | | | CDI | 3 | 288 | CEFTRX(52); CEFEP(22); LEVO(12); | 10849 | 10560.911 | 54520 | 1.027 | 1.008, 1.047 |
| | | | | GRAMPOS | 4 | 278 | VANC(84); DAPTO(7); LNZ(7); | 5173 | 4895.455 | 54520 | 1.057 | 1.028, 1.086 |
| | | | | NSBL | 5 | -69 | CEFAZ(64); AMOXWC(13); AMPIWS(10); | 5376 | 5444.862 | 54520 | 0.987 | 0.961, 1.014 |
| | | | | ANTIFGL | 6 | -87 | FLUCO(88); MICA(8); ANID(4); | 758 | 844.986 | 54520 | 0.897 | 0.835, 0.963 |

TAS Report-Adult SAAR Types- Location Groups (Separated)



Prioritizing- Overall

| | FACILITY | (| | LOCATION GROUP | | | | | | |
|--------------------|-----------------------------|------------------------------|---------------|----------------|------------------------|------------------------------------|--|--|--|--|
| Facility Org ID | Facility Name | Facility AU-CAD (Rounded) | LocationGroup | SAARTypeCat | Location Group Rank | Location Group AU-CAD (Rounded) | Three highest use drugs within SAAR Type (Percentage) | | | |
| 45032 | CDA TEST FACILITY - DUKE | 1350 | WARDS | BSCA | 1 | 1121 | CEFTRX(66); LEVO(15); CIPRO(8); | | | |
| | | | WARDS | BSHO | 2 | 737 | PIPERWT(56); CEFEP(30); MERO(11); | | | |
| | | | WARDS | CDI | 3 | 288 | CEFTRX(52); CEFEP(22); LEVO(12); | | | |
| | | | WARDS | GRAMPOS | 4 | 278 | VANC(84); DAPTO(7); LNZ(7); | | | |
| | | | ONCOLOGY | BSCA | 5 | 211 | CEFTRX(70); LEVO(14); CIPRO(8); | | | |

TAS Report-Adult SAAR Types- Location Groups (Combined)



ARE YOU SETTING POSSIBLE GOALS?





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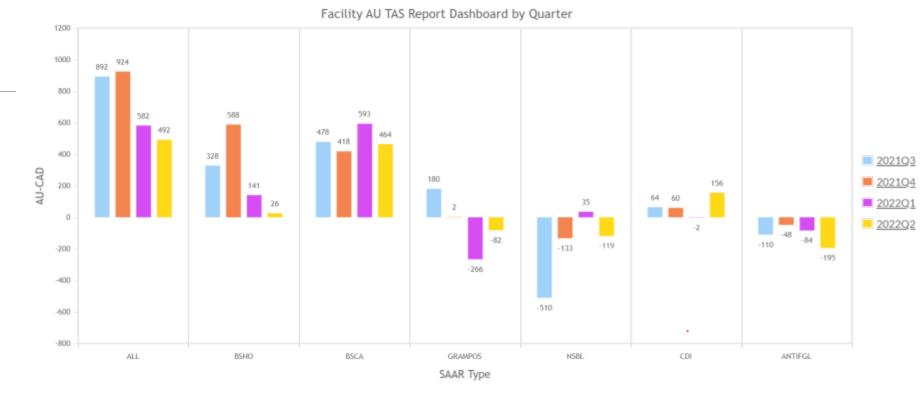
New NHSN Tools!!

- TAP Strategy Dashboard
- TAS Dashboard
- Action Items

| Population: Adult | |
|----------------------|---|
| All Antibacterials 1 | Export PDF |
| BSHO 1 | Generate New Last Generated: September 13, 2022 3:16 PM |
| BSCA 1 | |
| GramPos 1 | |
| NSBL 1 | |
| CDI 1 | |
| Antifungal 1 | Refresh Reset Save |



AU-CAD



| Facility AU-CAD | | | | | | | | | | |
|-----------------|--------|--------|--------|--------|--|--|--|--|--|--|
| SAAR Type | 2021Q3 | 2021Q4 | 2022Q1 | 2022Q2 | | | | | | |
| ALL | 892 | 924 | 582 | 492 | | | | | | |
| BSHO | 328 | 588 | 141 | 26 | | | | | | |
| BSCA | 478 | 418 | 593 | 464 | | | | | | |
| GRAMPOS | 180 | 2 | -266 | -82 | | | | | | |
| NSBL | -510 | -133 | 35 | -119 | | | | | | |
| CDI | 64 | 60 | -2 | 156 | | | | | | |
| ANTIFGL | -110 | -48 | -84 | -195 | | | | | | |



CAN I TARGET SPECIFIC INTERVENTIONS?





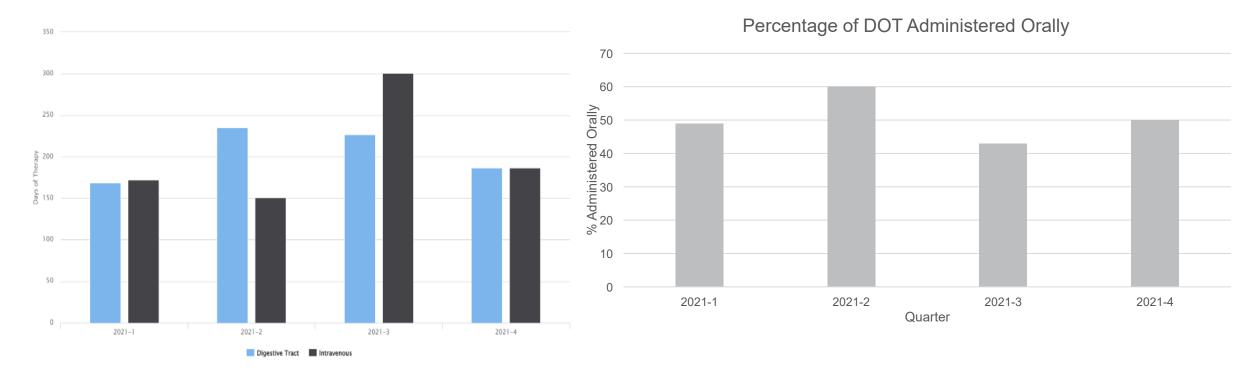
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Example: IV to PO

Quarterly Data for IV vs. PO Doxycycline



Line Listing- All Submitted AU Data for FACWIDEIN- converted to graph using Pivot Chart in Excel



Leveraging National Healthcare Safety Network Antibiotic Use Option to Inform, Implement and Assess Antibiotic Stewardship Activities

CLINICAL SCENARIOS

Category 1: Using AU Data to Identify and Inform Stewardship Opportunities for High Antimicrobial Use

- + 1. Individual SAAR category
- + 2. Targeted antimicrobial within a SAAR category
- + 3. SAAR category on a targeted unit type
- + 4. Specific antimicrobial in a select population

METRIC GUIDES

- Manipulations of NHSN Extracts
 - Specific Antimicrobial use bar chart
 - Antimicrobial use by route of delivery
 - Antimicrobial specific DOT/1000 days present
- Combining NHSN Data with Additional Data from Local S
 - Antimicrobial-specific Average Length of Therapy
 - NHSN Infection Rate Extracted to Combine with Antibiotic Data
- Metrics Using Local Data Sources
 - Antimicrobial use by Indication
 - Durations based on date of event
 - Percent of Patient Admissions receiving a Specific Antimicrobial
 - <u>Targeted admissions denominator</u> (diagnosis code or antibiotic use)
 - Provider Specific Prescribing (DOT)
 - Provider Specific Prescribing- Stratified by Route or Indication
 - <u>Laboratory Test Utilization Rate</u>
 - Culture Rates

Work Funded by Centers for Disease Control & Prevention SHEPheRD





Percent of Patient Admissions receiving a Specific Antimicrobial

| CDC | Centers for Disease Control and Pr CDC 24/7: Saving Lives, Protecting People TM | evention | SEARCH Q | |
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| 08:25 | | | | |

Click the full screen icon 💱 to view the video on the full screen, press the Esc key to return to previous video window.

Reference article: <u>Percent of Patient Admissions receiving a Specific Antimicrobial PDF</u>

The ABCs of Using NHSN Data in Your Stewardship Program

- Access: Get access to NHSN if you do not have it already!!!
 - There are pre-built actionable reports that you can use immediately
 - Your submitted data is there and is very easy to manipulate in basic programs like ExcelTM
- Be Realistic: These data are not going to change antibiotic use data themselves- it is how YOU USE THE TOOLS that will create change
 DO NOT underestimate the power of comparison
- Collaborate: All around you are people who are assessing similar data with similar questions- work together! (not sure how to start?- say hi to your neighbor)



Questions?

Libby.dodds@duke.edu





NHSN Data Sharing AU/AR

\star NHSN Data Sharing

 CDC and your state, local, or territorial health department have entered into a data use agreement (DUA). The health department will gain access to data reported to CDC's National Healthcare Safety Network (NHSN) from healthcare facilities in the jurisdiction. The new provisions are designed to allow data access solely for the purposes of surveillance and prevention. The overarching goal of the new access provisions is to enhance the value of data reported to NHSN for public health purposes.

X Data Sharing FAQ's

- How is the data going to be used by the health department?
 - The data will be used for healthcare-associated infection (HAI) surveillance and prevention purposes and not legal and regulatory action
- Who in CDPH will have access to the data?
- Access to the data is intended for the city HAI program for prevention activities. You
 may contact Estrella Cervantes, PharmD the Antimicrobial Stewardship Pharmacist, at
 <u>Estrella.Cerevantes@cityofchicago.org</u> or Hira Adil, MD the CDPH HAI program
 manager, at <u>Hira.Adil@cityofchicago.org</u> with questions or concerns.
- What data will be included in the data use agreement?
 - Each data use agreement is modeled using a template developed by CDC and customized by CDC and CDPH to reflect local data needs, protections, and policies. If your state has a data use agreement, CDC will make the agreement publicly available on CDC's website. It is important to note that past data (i.e., data that was entered into NHSN prior to the opt-out period) will not be shared; only future data will be shared with the health department.

\star Data Sharing FAQ's

- Will facility-identifiable data be made publicly available?
 - No. Making facility-identifiable data publicly available would be a violation of the data use agreement and CDC will terminate the data use agreement immediately with CDPH.
- How does CDPH entering into a data use agreement benefit my hospital?
 - Many state health departments have an effective and collaborative relationship with facilities in their state, including the prioritizing of prevention programs and opportunities for undertaking complementary HAI prevention projects. The data use agreement may foster additional collaborations between facilities and CDPH in this manner.

Enter Your Monthly Reporting Plan



| NHSN Home | | Add Monthly Reporting Plan | n | |
|----------------|---|--|-------------------|------|
| Alerts | | Add Monthly Reporting Fian | • | |
| Dashboard | | | • You | ir n |
| Reporting Plan | | Add marked with * | 633) • | |
| Patient | | Find | tell | s N |
| Event | | Year *: 💌 | ules Followed YOL | 1 \\ |
| Procedure | • | No NHSN Patient Safety Modu | | 8 |
| Summary Data | | Device-Associated Module | mo | nth |
| Import/Export | | Location | • Pla | n n |
| Surveys | | 2 WEST - M/S ICU | , • Pld | nn |
| Analysis | | Add Row Clear All Rows Copy from Previou | us Month rep | ort |
| Users | • | | - Ma | |
| Facility | | Procedure-Associated Module | • Ma | y a |
| Group | | Procedures | for | ea |
| Logout | | APPY - Appendix surgery | vea | ar |
| | | Add Row Clear All Rows Copy from Previou | us Month | |

- Your monthly reporting plan tells NHSN in what modules you will enter data each month
- Plan must include CDPH reporting requirements
- May add plans ahead of time for each month for the entire year

Antimicrobial Use and Resistance Module

 Locations
 Antimicrobial Use
 Antimicrobial Resistance

 Image: Clear All Rows
 Copy from Previous Month

Multi-Drug Resistant Organism Module

Locations The second se

***** Setting Up A Monthly Reporting Plan

How do I include the AU Option in my monthly reporting plan?

- You need to add the AU Option to your monthly reporting plan for every month you plan to submit AU data. You cannot enter AU data "off-plan".
 - 1. From the NHSN Homepage, select Reporting Plan from the left-hand menu.
 - 2. Click Add to add a new monthly reporting plan or click Edit to edit an existing plan.
 - 3. Select the month and year for AU data submission.
 - 4. If editing an existing plan, first scroll down to the bottom of the page and click Edit. Scroll to the Antimicrobial Use and Resistance Module section of the plan, enter all the locations for which you'll submit AU data that month, and check the AU box (see screenshot below for reference). To include facility-wide inpatient (FacWideIN) in the monthly reporting plan for the AU Option, you MUST have at least one individual non-FacWideIN location (for example, medical ward, emergency department) added to the plan.

5. Click the Save button at the bottom of the screen.

Steps to create Antimicrobial Use and Resistance Module Reporting Plan

- **1. Select** the location that you wish to monitor.
- 2. Check the box(s) for Antimicrobial Use and Antimicrobial Resistance

| Anti | Antimicrobial Use and Resistance Module | | | | | | | |
|------|---|-------------------|--------------------------|--|--|--|--|--|
| | Locations | Antimicrobial Use | Antimicrobial Resistance | | | | | |
| Î | FACWIDEIN - Facility-wide Inpatient (FacWIDEIn) | V | V | | | | | |
| Ť | 5GPED - PED MED_SURG - AU | V | | | | | | |
| Ì | PMICU - PED MICU_AU | | | | | | | |
| Î | SURGWARD - SURGICAL WARD - AU | | | | | | | |
| Ŵ | EMERG - EMERGENCY DEPT | | V | | | | | |
| Add | Add Row Clear All Rows Copy from Previous Month | | | | | | | |

CDC NHSN AUR Training Videos

- Antimicrobial Use (AU) Option: Beginner Analysis
 - https://youtu.be/lb3J6wA4W6g?si=fheYoeVeoIJMAe60
- Antimicrobial Use (AU) Option: Advanced Analysis
 - https://youtu.be/yp97BZkVT-0?si=oSBfwX9GVrlHilym
- Antimicrobial Resistance (AR) Option: Reporting and Analysis
 - https://youtu.be/vRSWZaZbOvU?si=7cHWwjPsiXJ4Fv8T
- Antimicrobial Resistance (AR) Option: Facility-Wide Antibiogram Report
 - https://youtu.be/J9vJEUo3Tvk?si=I6pjxCmRRquDTzzZ
- Understanding the Standardized Antimicrobial Administration Ratio (SAAR)
 - https://youtu.be/z-Z6B0YWpTo?si=X33gq-B_XEhVEc1Y
- Interpreting the Standardized Antimicrobial Administration Ratio (SAAR)
 - https://youtu.be/uaHXTF_Z07M?si=HyBg-E0RUrzx98y1
- NHSN AU Option TAS Webinar
 - https://youtu.be/z3G26xirJzs?si=gKGwIV9QEmX1A52B



Antimicrobial Stewardship Infection Control Assessment and Response (ICAR)

Jazmine Wright Antimicrobial Stewardship Support





This AS ICAR is intended to aid an ICAR facilitator in the review of a healthcare facility's antimicrobial stewardship policies and activities.



This review should be conducted with antimicrobial stewardship lead(s) if possible.



The ICAR helps to identify your facility's capacity to detect, report and address healthcare acquired infections and/or outbreaks





Leadership Commitment, Accountability and Stewardship Expertise to Improve Antibiotic Use



Actions and Activities to Improve Antibiotic Use



Tracking and Reporting Antibiotic Use and Outcomes



Education of Healthcare Professionals, Patients, and their Families



Infection Control Assessment and Response (ICAR) Tool for General Infection Prevention and Control (IPC) Across Settings

Module 10. Antibiotic Stewardship Facilitator Guide

Antibiotic Stewardship: This form is intended to aid an ICAR facilitator in the review of a healthcare facility's antibiotic stewardship policies and activities. This interview should be conducted with antibiotic stewardship lead(s) if possible.

Leadership Commitment, Accountability and Stewardship Expertise to Improve Antibiotic Use

- Which of the following individuals are responsible for the management and outcomes of antibiotic stewardship activities at your healthcare facility: (Select all that apply)
 - Physician
 - Co-lead
 - Lead
 - Designated physician support
 - Pharmacist
 - Co-lead
 - Lead
 - Designated pharmacist support
 - Other (e.g., RN, PA, NP, IP, other), specify:
 - Co-lead
 - Lead
 - Designated support
 - Unknown
 - None, the healthcare facility does not have individuals responsible for antibiotic stewardship activities management and outcomes
 - Not Assessed

Identifying an antibiotic stewardship lead or co-lead who is/are accountable for program management and outcomes is critical for the successful implementation of antibiotic stewardship policies and activities. Most hospitals have found a physician and pharmacist co-leadership model to be effective.

If a non-physician is identified as a lead for stewardship activities, it is important to designate a physician (or medical director) who can serve as a point of contact and support for the non-physician lead. Regular "stewardship rounds" for the co-leaders, or the non-physician lead and the supporting physician can strengthen program leadership.

The core elements of antibiotic stewardship for hospital, outpatient, nursing home, and small and critical access hospitals can be found here: Core Elements of Antibiotic Stewardship.

For strategies to improve antibiotic prescribing in outpatient dialysis settings refer to: Improving Antibiotic Use in Outpatient Hemodialysis Facilities

- Which of the following describes the individual responsible for the management and outcomes of antibiotic stewardship activities? (Select all that apply, repeat for <u>each</u> individual)
 - Has dedicated time to manage the program and conduct daily stewardship interventions
 - □ Specify percent time in the job description or in an average week dedicated to stewardship activities at the facility: ○ 0-25% ○ 26%-50% ○ 51-75% ○ 76-99% ○ 100%

Has antibiotic stewardship responsibilities specified in the employment contract, job description or performance review
Is on-site at the healthcare facility

- O Full-time
- Provides remote stewardship expertise (tele-stewardship)
- Completed infectious diseases training (residency or fellowship)
- Completed antibiotic stewardship training (certificate program, conference, online training)
- Unknown
- None, the healthcare facility does not have individuals responsible for antibiotic stewardship activities management and outcomes
 Not Assessed

A priority example of leadership commitment includes giving stewardship program lead(s) time and resources to manage the program and conduct daily stewardship interventions. That includes having stewardship as part of the job description to ensure that lead(s) have dedicated time to spend on developing and maintaining stewardship activities.

Core Elements of Antibiotic Stewardship

For healthcare facilities without pharmacy staff on-site, placing stewardship requirements into the contractual responsibilities of pharmacy services can help support stewardship implementation. This can include a requirement for supporting antibiotic use tracking and formal stewardship training. Healthcare facilities with limited stewardship expertise can consider funding remote consultation or tele-stewardship. Even when remote expertise is used, it is important to have a stewardship lead on staff at the facility. Healthcare facilities can also seek additional expertise by joining multi-facility stewardship collaboratives or engaging with public health organizations.

Training in infectious diseases and/or antibiotic stewardship benefits stewardship program lead(s). An example of an online stewardship training can be found here: CDC Training on Antibiotic Stewardship.

Notes

- 3. Healthcare facility leadership has demonstrated commitment to antibiotic stewardship efforts by: (Select all that apply)
 - Having an antibiotic stewardship policy that requires an antibiotic stewardship program or requires the implementation of antibiotic stewardship activities
 - Allocating resources to support education and training for stewardship team and healthcare professionals
 - Ensuring support for stewardship activities from key departments and groups such as information technology or microbiology
 - Having a senior executive who serves as a point of contact or "champion" and ensures availability of resources and key support to implement stewardship activities
 - Having regularly scheduled meetings with facility leadership and/or the hospital board to report and discuss stewardship activities, resources, and outcomes
 - Communicating to healthcare facility staff about antibiotic use, resistance, and stewardship activities via email, newsletters, events, or other avenues
 - Unknown
 - None, the healthcare facility does not demonstrate commitment to antibiotic stewardship efforts
 - Not Assessed
 - Other (specify):

Dedicating necessary human, financial and information technology resources is critical for the success of stewardship activities. <u>Core Elements of Antibiotic Stewardship</u>

Regularly scheduled meetings can be done quarterly, biyearly or yearly depending on the facility size and activities planned. Refer to leadership commitment and accountability sections in:

Antibiotic Stewardship Implementation Resources for Hospitals;

Antibiotic Stewardship Implementation Resources for Outpatient Facilities; and

Participate Second ship implementation resources for outpatient roundes, and

Antibiotic Stewardship Implementation Resources for Nursing Homes.

\star How will your facility benefit from this assessment?

- Allows for a fresh perspective on your existing AS program
- Prepare facility for regulatory surveys
- The ICAR helps with Infection Control Risk Assessment priorities and planning activities
- Provides a summary report of opportunities and strengths for each facility's antimicrobial stewardship program, as well as resources and education if needed.



| Send | Analyze | Establish | Site Visit |
|--|---|---|--|
| ICAR form will be sent to Antimicrobial Stewardship leads at facility | ICAR responses are analyzed by CDPH Antimicrobial Stewardship Team | Provide customized feedback and identify areas of opportunity | Provide written recommendations to facility based on results via site visit in person or virtually |



Q & A



MIDWEST ANTIMICROBIAL STEWARDSHIP COLLABORATIVE

Call For Abstracts

Mark your calendars! Based on the positive feedback from the 2023 MASC Virtual Research Symposium, we plan to host our second event May 23rd, 2024, from 1200-1600.

Summary: The Midwest Antimicrobial Stewardship Collaborative (MASC) would like to highlight 2023-24 research efforts from regional pharmacy and medical residents, fellows (and students). Nursing submissions are also encouraged. Due to time limitations, the first 12 relevant abstracts will be accepted. This is a great opportunity for trainees to share their work in a supportive forum with clinicians experienced in antimicrobial and diagnostic stewardship. Submissions on novel stewardship topics are ideal, though not required.

Presentation Overview: Presenters will provide an overview of their research via PowerPoint slides (preferably around 10 slides) over a maximum of 10 minutes, with an additional 5 minutes for questions. Research in progress is acceptable, provided outcomes data will be available by the presentation date. Slides should be submitted 1 week ahead of the presentation date.

IMPORTANT: Presenting data at the MASC Research Symposium has NO bearing on other submissions (e.g. IDWeek, etc). This is meant to be an open forum for information sharing.

Submission Request Requirements:

- Presenter name, title, institution, and email
- Co-presenter names, title(s), institution
- Research Title
- Abstract (attach as Word/PDF document)
 - Include the following sections: background, methods, results, conclusion
 - Max 500 words
- Email submission and/or questions to: <u>MidwestASC@gmail.com</u>

Submission deadline: Monday, April 22nd, 2024



<u>https://forms.office.com/g/NygicwgBXc</u>

NHSN Workgroup Feedback Survey







Chicago.gov/Health



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