

Tracking and Reporting Antibiotic Use and Outcomes in LTCF

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**2025 Nebraska Antimicrobial
Stewardship Summit**

Disclosures

Neither presenter has any relevant financial conflicts of interest to report related to this presentation.

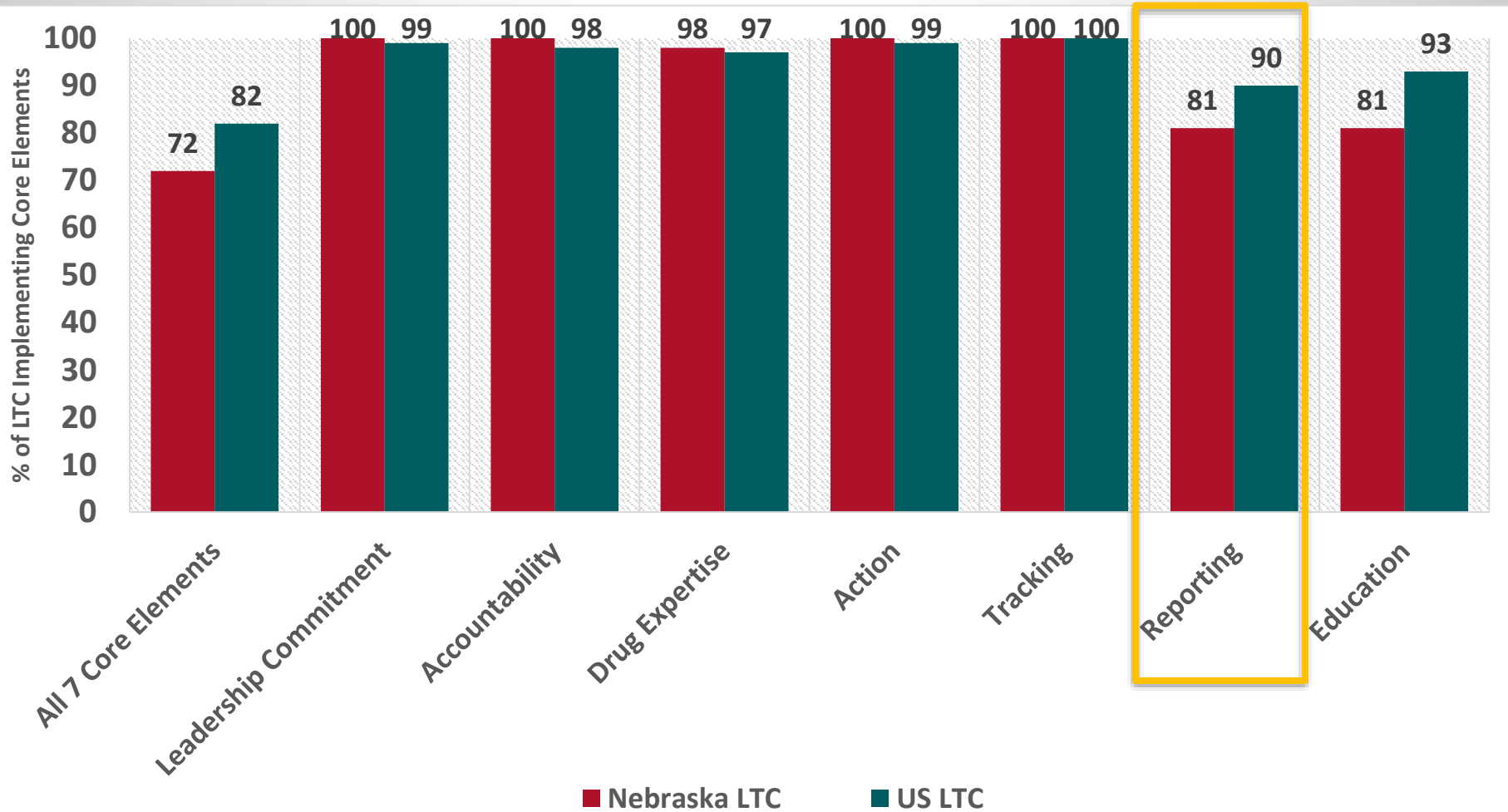
Objectives

- Describe the core elements of tracking and reporting antibiotic use in long-term care settings, including key metrics used to monitor prescribing practices
- Review the Nebraska ASAP Antibiotic Use Tracking log as a strategy for nursing homes to track and summarize antibiotic use data

CDC Core Element Implementation

Long-Term Care 2023

53 LTCF reporting



CMS Regulations for Antibiotic Stewardship Programs

§483.80(a)(3)

As part of their IPCP program, the facility must establish an antibiotic stewardship program that includes antibiotic use protocols and **a system to monitor antibiotic use.**

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Medicare & Medicaid Services

42 CFR Parts 405, 431, 447, 482, 483, 485, 488, and 489

[CMS-3260-F]

RIN 0938-AR61

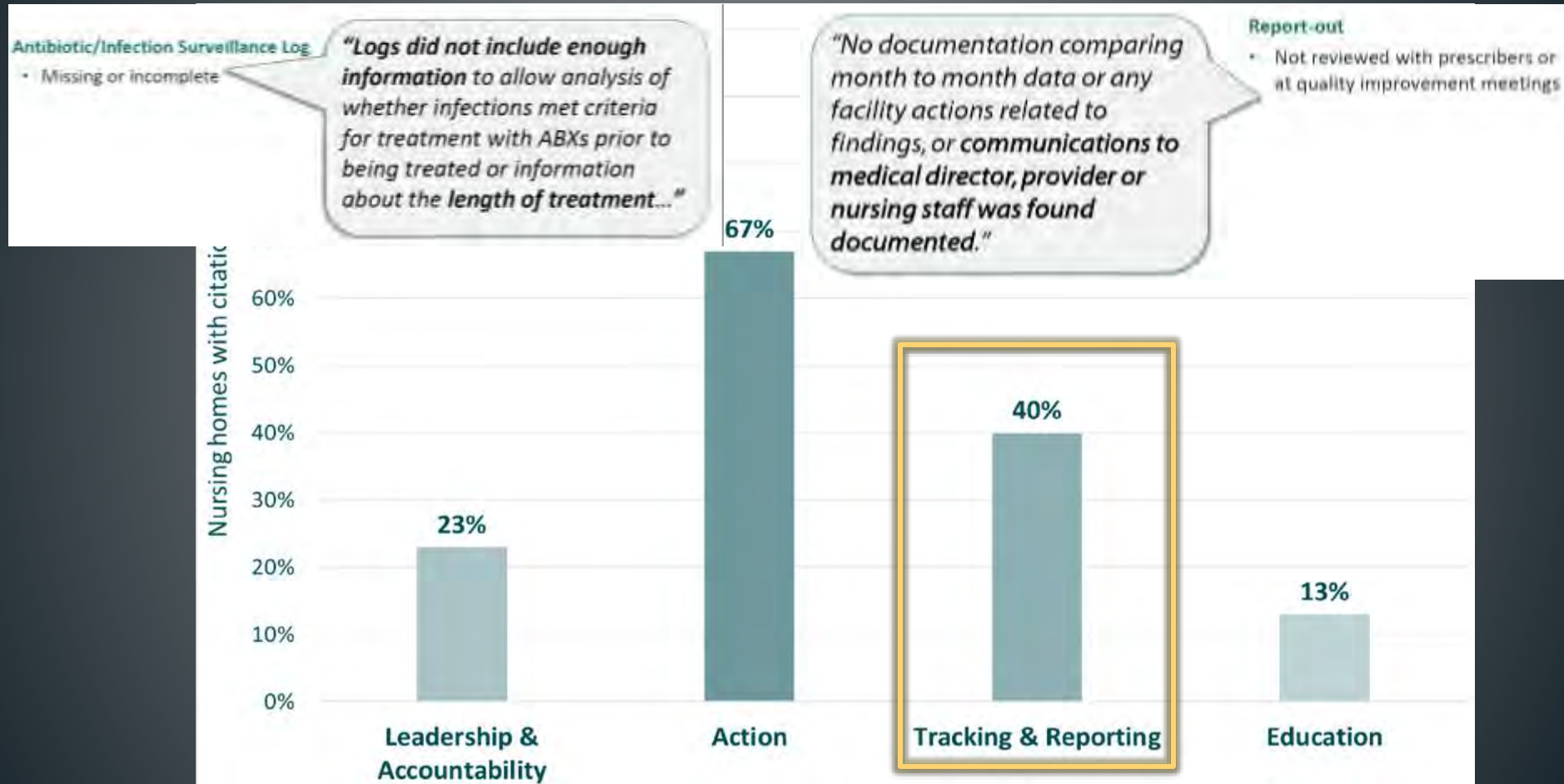
Medicare and Medicaid Programs; Reform of Requirements for Long-Term Care Facilities

AGENCY: Centers for Medicare & Medicaid Services (CMS), HHS.

ACTION: Final rule.

<https://www.federalregister.gov/documents/2016/10/04/2016-23503/medicare-and-medicaid-programs-reform-of-requirements-for-long-term-care-facilities>

Tracking and Reporting were the second most common stewardship CMS deficiencies cited among nursing homes from 2018–2019



Note: These categories are not mutually exclusive; citations could be classified into one or more categories.

How are nursing homes currently tracking antibiotic use?

- In 2022, 99% of LTCF (n=4,898) respondents indicated having a system for tracking antimicrobial use on the NHSN annual facility survey
 - Manual AU tracking (48%)
 - EHR (31%)
 - Pharmacy Services (25%)
- In 2022, 98% of LTCFs reported having access to an electronic health record, but only a third were using the EHR for antibiotic use tracking

[CDC: Antibiotic Stewardship in Long-Term Care Facilities](#)

How are nursing homes currently tracking and reporting antibiotic use?

Results of a Statewide Survey of the Antibiotic Tracking and Reporting Inventory in Wisconsin Nursing Homes



Sally Jolles, MA, MS;^{1,2} Dee Heller, RN, NHA;¹ Grace Multhaupt, BS;² Lori Koepfel, BSN, RN, NHA, DNS-CT, DON-C;¹ Michele Gassman, MA;³ Bikram Poudel, BPH;⁴ Maddie Langenstroer, MPH;⁴ Lindsay Taylor, MD, MS;⁵ Kimberly Goffard MBA, HCM, RN;⁵ Christinia Olivier MBA LPN;⁵ Mariah Welke MPH CHES;⁵ Chris Crnich MD PhD;^{1,2} Jay Ford PhD³
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Table 2. Tools facilities use for line listing and reporting tasks

	No.	(%)
Tools used for line listing*		
Excel spreadsheet (facility-developed)	62	(57.4%)
Paper	41	(38.0%)
EHR integrated line list	24	(22.2%)
Excel spreadsheet (externally developed)	11	(10.2%)
Stand-alone software application	6	(5.6%)
Other	2	(1.9%)
Tools used for reporting		
Excel spreadsheet (facility-developed)	62	(57.4%)
EHR integrated reporting tool	30	(27.8%)
Paper (none of the above, no paper option)	17	(15.7%)
Excel spreadsheet (externally developed)	10	(9.3%)
Stand-alone software application	4	(3.7%)
Other	2	(1.9%)

*32 NH used more than one tool.

Data presented
at 2025 SHEA
Conference

How much time is devoted to tracking and reporting antibiotic use?

Results of a Statewide Survey of the Antibiotic Tracking and Reporting Inventory in Wisconsin Nursing Homes

Sally Jolles, MA, MS;^{1,2} Dee Heller, RN, NHA;¹ Grace Multhaupt, BS;¹ Lori Koepfel, BSN, RN, NHA, DNS-CT, DON-C;¹ Michele Gassman, MA;³ Bikram Poudel, BPH;¹ Maddie Langenstroer, MPH;⁴ Lindsay Taylor, MD, MS;³ Kimberly Goffard MBA, HCM, RN;³ Christinia Olivier MBA LPN;³ Mariah Welke MPH CHES;³ Chris Crnich MD PhD;^{1,2} Jay Ford PhD³
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Table 4. Time devoted to line listing and reporting tasks

	Mean
Line listing (hours/week)*	
≤ 50 beds	7.8
51 – 99 beds	8.2
≥ 100 beds	14.8
All facilities	9.6
Reporting (hours/month)	
≤ 50 beds	13.7
51 – 99 beds	17.4
≥ 100 beds	23.0
All facilities	17.0

*Significant difference at $p < .001$

Data presented
at 2025 SHEA
Conference

What Should be Tracked?

Antibiotic Use Measures

Antibiotic Process Measures

Antibiotic Outcomes Measures

What Should be Tracked?

Antibiotic Use Measures

- **Antibiotic starts per 1000 resident-days**
 - **Antibiotic Drug and/or Class**
- **Days of therapy per 1000 resident-days**
 - **Can separate out prophylactic courses**
- **Infection type per 1000 resident-days**
 - **Can separate out prophylactic courses**
- **Prescriber name**
- **Rx origin (ED, clinic, hospital, LTCF)**

Why Per 1000 Resident Days?

- Converts the number of starts, or days of therapy to a rate
 - Account for variations in number of residents and lengths of stay
 - Allow within facility comparison over time
 - Make between facility comparison possible

Calculation:

$(\# \text{ of antibiotic starts in August} \div \# \text{ of resident days August}) \times 1000$

$(\# \text{ of days of therapy in August} \div \# \text{ of resident days August}) \times 1000$

Drugs That Typically are NOT Counted

- Antivirals
- Topical antifungals
 - Nystatin, clotrimazole, ketoconazole
- Topical antibiotics
 - Triple antibiotic, bacitracin, mupirocin
- Antibiotic-containing eye and ear drops/ointments
 - Gentamicin, tobramycin, erythromycin
- Agents that work within GI tract or not absorbed
 - Sulfasalazine, rifaximin
 - Exceptions: vancomycin PO, fidaxomicin
- Urinary tract antiseptic/analgesic
 - Methenamine, phenazopyridine

What Should be Tracked?

Antibiotic Process Measures

- **Use of clinical assessment tool (SBAR)**
 - **Staff members performing assessment**
- **Loeb criteria met**
- **Antibiotic Reassessment (timeout) performed**
- **Antibiotic selection based on guidelines**
- **Surveillance definition met**

What Should be Tracked?

Antibiotic Outcome Measures

- **Antimicrobial resistance**
 - **Antibiograms**
- **Antimicrobial-associated adverse events**
- **Infection rates due to pathogens of interest**

Tracking Outcome Measures – *Infection Rates of Specific Organisms*

Resistant Pathogens and other Pathogens of Interest

- MRSA (methicillin-resistant *Staphylococcus aureus*)
- VRE (vancomycin-resistant enterococci)
- ESBL (extended spectrum β -lactamase) Gram negative bacilli
- CRE (carbapenem-resistant *Enterobacterales*)
- Candida auris
- *Clostridioides difficile* infections

Data can be standardized by

- Per **10,000** Resident-Days
- Per number of new admissions

Why track them?

- Direct consequences of the extent of antibiotic use AND infection control practices

Other Outcome Measures – *Adverse Drug Events (ADR)*

Rates of antibiotic-related adverse events

- *C difficile* infections
- Diarrhea, loose stools unrelated to CDI
- Rash, hives
- Fluoroquinolones: Tendon rupture, hypo/hyperglycemia, confusion, seizure, neuropathy, others

Requires careful review of clinical records to determine causality

- Naranjo adverse drug reaction probability scale
- Classify causal relationship as definite, probable, possible, doubtful

Request assistance from

- Consultant pharmacist as part of monthly drug use evaluation
- Medical director
- Specific nurse caring for resident who experienced the ADR

Example of Tool for Evaluating ADR

<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> </div>	Resident Label
Adverse Drug Reaction Worksheet	
Evaluation Date: _____	Evaluated By: _____ Date of Adverse Reaction: _____
Suspect Medication: _____	Dosing Regimen: _____ Is medication new? <input type="checkbox"/> Yes <input type="checkbox"/> No
Adverse Reaction: _____ <i>(Refer to a list of common adverse antimicrobial reactions in Table 1 on the next page)</i>	
Probability Reaction Related to Medication (from the Naranjo Probability Scale below):	
<input type="checkbox"/> Definite (2-9) <input type="checkbox"/> Probable (5-8) <input type="checkbox"/> Possible (1-4) <input type="checkbox"/> Doubtful (0)	
Consequence of Adverse Reaction (check all that apply):	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> No change-therapy continued <input type="checkbox"/> Increased monitoring <input type="checkbox"/> Disability <input type="checkbox"/> Hospitalization </div> <div style="width: 50%;"> <input type="checkbox"/> Therapy changed to another agent <input type="checkbox"/> Symptomatic medical treatment <input type="checkbox"/> Permanent Damage <input type="checkbox"/> Other (specify): _____ </div> <div style="width: 50%;"> <input type="checkbox"/> Therapy discontinued <input type="checkbox"/> Corrective surgical procedure <input type="checkbox"/> Delayed discharge </div> </div>	
Reviewer: _____	Date: _____

Naranjo Adverse Drug Reaction Probability Scale (with modifications)

The following scale is used to assess the likelihood a particular adverse reaction is related to a medication. Answer each of the 10 questions, calculate total score, and determine if an adverse drug reaction is Definitely, Probably, Possibly, or unlikely related to the drug in question. (Interpretation of the probability classification can be found in Table 2 on the next page)

Question	Yes	No	Do Not Know	Score
1. Are there previous CONCLUSIVE reports on this reaction? <i>Answer: yes if 1 or more authorities that have reports can be found in the literature</i>	+1	0	0	
2. Did the adverse reaction appear after the suspected drug was administered? <i>Answer: yes if reaction occurred in short temporal sequence (i.e., within 1-2 days) after drug administration</i>	+2	-1	0	
3. Did the adverse reaction improve when the drug was discontinued or a specific antagonist given? <i>Answer: yes if reaction seemed to subside after the suspected drug stops or if pharmacologic antagonist given</i>	+1	0	0	
4. Did the adverse reaction reappear when the drug was readministered? <i>Answer: yes if complete discontinuation plus drug administration had reappeared when the drug was readministered</i>	+2	-1	0	
5. Are there alternative causes (other than the suspect drug) that could have caused the reaction? <i>Answer: yes if the reaction can be explained by another event occurring after the first suspect drug</i>	-1	+2	0	
6. Did the reaction reappear when a placebo was given? <i>Answer: yes if drug reaction appears to occur when not likely to occur</i>	-1	+1	0	
7. Was the drug detected in blood or other fluids in concentrations known to be toxic? <i>Answer: yes if drug concentration(s) in the fluid is supratherapeutic range</i>	+1	0	0	
8. Was the reaction more severe when dose was increased or less severe when dose was decreased? <i>Answer: yes if the severity of the reaction is directly proportional to the dose of the drug</i>	+1	0	0	
9. Did the patient have a similar reaction to the same or similar drugs in any previous exposure? <i>Answer: yes if patient has a previous documented reaction which occurred to the suspect drug or related medication in the past</i>	+1	0	0	
10. Was the adverse reaction confirmed by any objective evidence? <i>Answer: yes if the reaction can be confirmed by a documented lab value, imaging, or physiological measurement</i>	+1	0	0	
Total Score				

Table 1. List of Common Adverse Antimicrobial Reactions*

Drug Class	Class Member	Common Adverse Reaction
Penicillins +/- Beta-Lactamase inhibitors	Ampicillin, Ampicillin-Sulbactam, Amoxicillin, Amoxicillin-Clavulanate, Cloxacillin, Dicloxacillin, Nafcillin, Oxacillin, Penicillin, Piperacillin-Tazobactam	Nausea, vomiting, diarrhea, <i>C. difficile</i> infection, allergic reactions (including rash, hemolytic anemia), elevated serum creatinine, bone marrow suppression with long-term use, phlebitis with IV therapy
Cephalosporins +/- Beta-Lactamase inhibitors	Cefaclor, Cefazolin, Cefdinir, Cefditoren, Cefepime, Cefixime, Cefixetan, Cefixitin, Cefpodoxime, Cefprozil, Ceftriaxone, Cefuroxime, Cefuroxime-Axibactam, Cefibuten, Cefixolone-Tazobactam, Cefixone, Cefuroxime, Cephradrol, Cephalixin	Nausea, vomiting, diarrhea, <i>C. difficile</i> infection, allergic reactions (including rash, serum sickness), altered mental status
Carbapenems	Doripenem, Ertapenem, Imipenem-Cilastatin, Meropenem	Nausea, vomiting, diarrhea, <i>C. difficile</i> infection, seizure
Fluoroquinolones	Ciprofloxacin, Delafloxacin, Levofloxacin, Moxifloxacin	Disorientation, delirium, agitation, seizure, hypo- or hyperglycemia, peripheral neuropathy, tendon rupture, QT prolongation, nausea, vomiting, <i>C. difficile</i> infection, increased liver function tests, aortic dissection
Macrolides	Azithromycin, Clarithromycin, Erythromycin	Nausea, vomiting, elevation in liver function tests, reversible tinnitus or deafness, taste alteration, phlebitis with IV therapy
Tetracyclines	Doxycycline, Minocycline, Tetracycline	Nausea, vomiting, sunburn, esophageal ulcer, phlebitis with IV therapy, teeth discoloration
Sulfonamides	Sulfamethoxazole-Trimethoprim	Allergic reactions (rash, hives, drug fever, Steven-Johnson Syndrome), headache, sunburn, hyperkalemia, worsened renal functions, bone marrow suppression, hemolytic anemia, hypoglycemia (especially with sulfonylureas)
Glycopeptides	Teicoplanin, Vancomycin IV	Redman syndrome (flushing, itching, hypotension), worsened renal functions
Others	Clindamycin, Metronidazole, Nitrofurantoin	All: Nausea, vomiting; Clindamycin: diarrhea, <i>C. difficile</i> infection, taste alteration; Metronidazole: disulfiram reaction after alcohol (flushing, dyspnea), taste alteration, peripheral neuropathy, confusion; Nitrofurantoin: interstitial pneumonitis especially with chronic use, hemolytic anemia

* The above list does not include all antimicrobials or all adverse drug reactions. Consult drug references and published literature for additional information if an adverse drug reaction not listed above is suspected.

Table 2. Interpretation of Probability Categories

Category	Score Range	Interpretation
Definite	≥ 9	Reaction 1) followed a reasonable temporal sequence after a drug or in which a toxic drug level had been established in body fluids or tissues; 2) followed a recognized response to the suspected drug; and 3) was confirmed by withdrawal but not by exposure to the drug
Probably	5 – 8	Reaction 1) followed a reasonable temporal sequence after a drug; 2) followed a recognized response to the suspected drug; 3) was confirmed by withdrawal but not by exposure to the drug; 4) could not be reasonably explained by the known characteristics of the patient's clinical state
Possible	1 – 4	Reaction 1) followed a temporal sequence after a drug; 2) possibly followed a recognized pattern to the suspected drug; 3) could be explained by characteristics of the patient's disease
Doubtful	0	Reaction was likely related to factors other than a drug

Reference

Naranjo CA, et al. A method for estimating the probability of adverse drug reactions. *Can Pharmacol Ther* 1981;30:239-45.

Demonstration of Nebraska ASAP Infection and Antibiotic Tracking Tool

Refer to pages 35–37 in the Workbook

Note: Fictitious data for illustration purposes only



Tools and Templates for Long Term Care - ASAP



Reporting Data

Reporting Antimicrobial Stewardship Data Activities and Outcomes

CDC recommends reporting tracked data to:

- Clinical providers
- Nursing staff

Optional: selective data to residents/families

What good is it if no one knows about it!

- Data can increase buy-in
- Resistance rate may deter use
- Rate of inappropriate UA/culture may improve use of assessment tool
- Justify your time and efforts in the facility

Reporting Antimicrobial Stewardship Activities and Outcomes

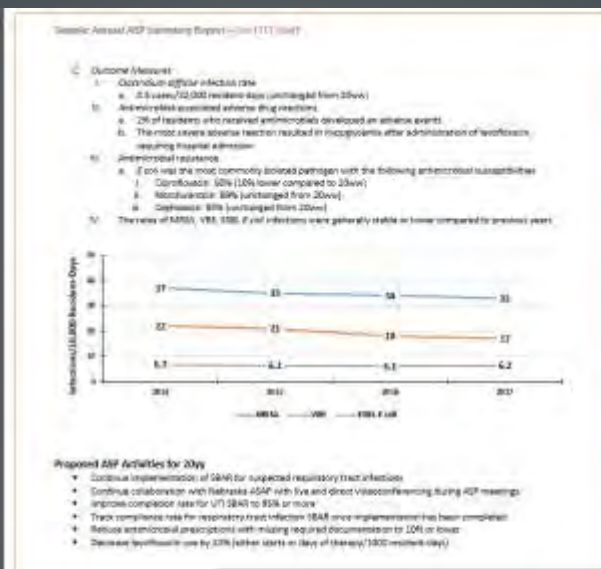
What to report

- Antibiotic use data (starts, DOT)
- Rates of specific infections
- Interventions (actions) made and any outcomes
- Compliance to policy (met criteria before starting antibiotics)
- Outlier data

How to report

- Use existing system
 - Newsletter, QAPI report, posters, prescriber letters
- Frequency varies based on type of information
 - Annually for antibiogram, antibiotic spending
 - Quarterly, semi-annually, or annually for other info such as intervention outcomes

Report Out Templates



Provider Feedback Letter Templates

[Receiving therapy UTI duration 2024](#)

[Receiving therapy, not meeting clinical criteria, catheterized 2024](#)

[Receiving therapy, not meeting microbiologic criteria, or non-susceptible organism, catheterized 2024](#)

[Receiving therapy, not meeting microbiologic criteria, or non-susceptible organism, uncatheterized 2024](#)

[Receiving therapy, not meeting clinical criteria, uncatheterized 2024](#)

[Therapy completed, not meeting clinical criteria, catheterized 2024](#)

[Therapy completed, not meeting clinical criteria, uncatheterized 2024](#)

[Therapy completed, not meeting microbiologic criteria, catheterized 2024](#)

[Therapy completed, not meeting microbiologic criteria, uncatheterized 2024](#)

[Therapy completed, UTI duration 2024](#)

Tools and Templates for Long Term Care - ASAP

Demonstration of Nebraska ASAP Infection and Antibiotic Tracking Tool – Charts and Tables for Reporting

Dan German

Turning Reported Data Into Action

Low compliance with prescription documentation

- Provider education
- Policy to enforce or reinforce compliance
- If verbal order, implement process to obtain all required information

Low compliance with assessment / SBAR tool use

- Nursing staff education
- One-on-one feedback
- Evaluate ease-of-use of tools

High rates of infections

- Discuss with Infection Preventionist
- Examine infection control practices
- Review urinary catheter cares, wound cares, peri cares, etc.

Slide credit: Alex
Neukirch, PharmD
Consultant
Pharmacist,
Consonus Pharmacy

High rates of hospitalization

- Examine reasons: infectious vs. non-infectious causes
- If infectious:
 - Review antibiotic request, med administration procedures
 - Review empiric antibiotic use
 - Review adverse event rates

High rates of use in certain classes of antibiotics

- Antibiotic classes may become a target for improvement (e.g., fluoroquinolones)
- Antibiotic agents used for the treatment of specific infections (e.g., *C. difficile* or UTIs)

High resistance rates for certain antibiotics

- Review use of the antibiotic in question
 - Remove antibiotic from any facility guidelines

Location of antibiotic initiation

- Prescriber education
- Encourage antibiotic reassessments/timeouts
- Engage referring hospitals and emergency departments

High Frequency of antibiotic starts not meeting criteria

- Nursing education on tools
- Prescriber education on appropriate criteria
- Medical director involvement if necessary

Duration of therapy longer than necessary

- Prescriber education
- Facility treatment guidelines
- Implement antibiotic time-out tool
- Medical director involvement if necessary

High rate of bug-drug mismatch

- Prescriber education on antibiogram
- Facility treatment guidelines

Slide credit: Alex
Neukirch, PharmD
Consultant Pharmacist,
Consonus Pharmacy

Benchmarking Antibiotic Use Data in Long-Term Care

Antibiotic Use Rates in Long-Term Care

- Antibiotic orders from electronic health records in over 1,600 nursing homes in 2016
 - 54% of residents received at least one antibiotic order
 - Prescribing rate: 81 DOT/1,000 Resident Days
 - Significant variability in antibiotic use rates by facility
 - Facilities with more short-stay residents have higher antibiotic use rates

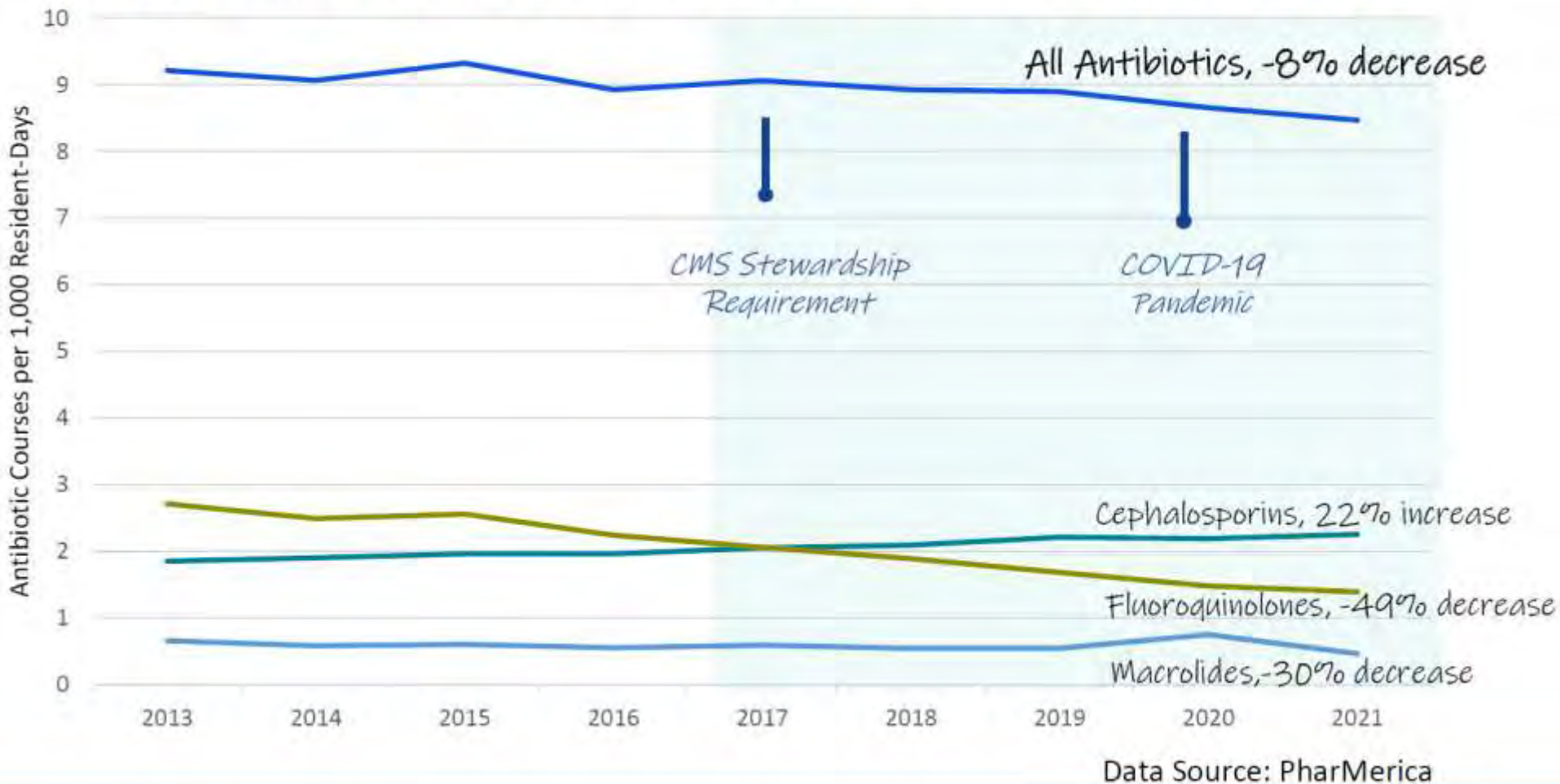
Facility-level Rates	Overall	Facilities with ≥75% Short-Stay Residents	Facilities with <75% Short-Stay Residents
DOT/1,000 Resident Days, Median (IQR)	81 (43-140)	90	38

<https://www.cambridge.org/core/journals/antimicrobial-stewardship-and-healthcare-epidemiology/article/description-of-antibiotic-use-variability-among-us-nursing-homes-using-electronic-health-record-data/68769AAD1D0DD906257C4BF180AE7CE7>

Kabbani S, Wang SW, Ditz LL, et al. Description of antibiotic use variability among US nursing homes using electronic health record data. *Antimicrobial Stewardship & Healthcare Epidemiology*. 2021;1(1):e58. doi:10.1017/ash.2021.207

LTC Pharmacy Dispensing Data to Track Antibiotic Use

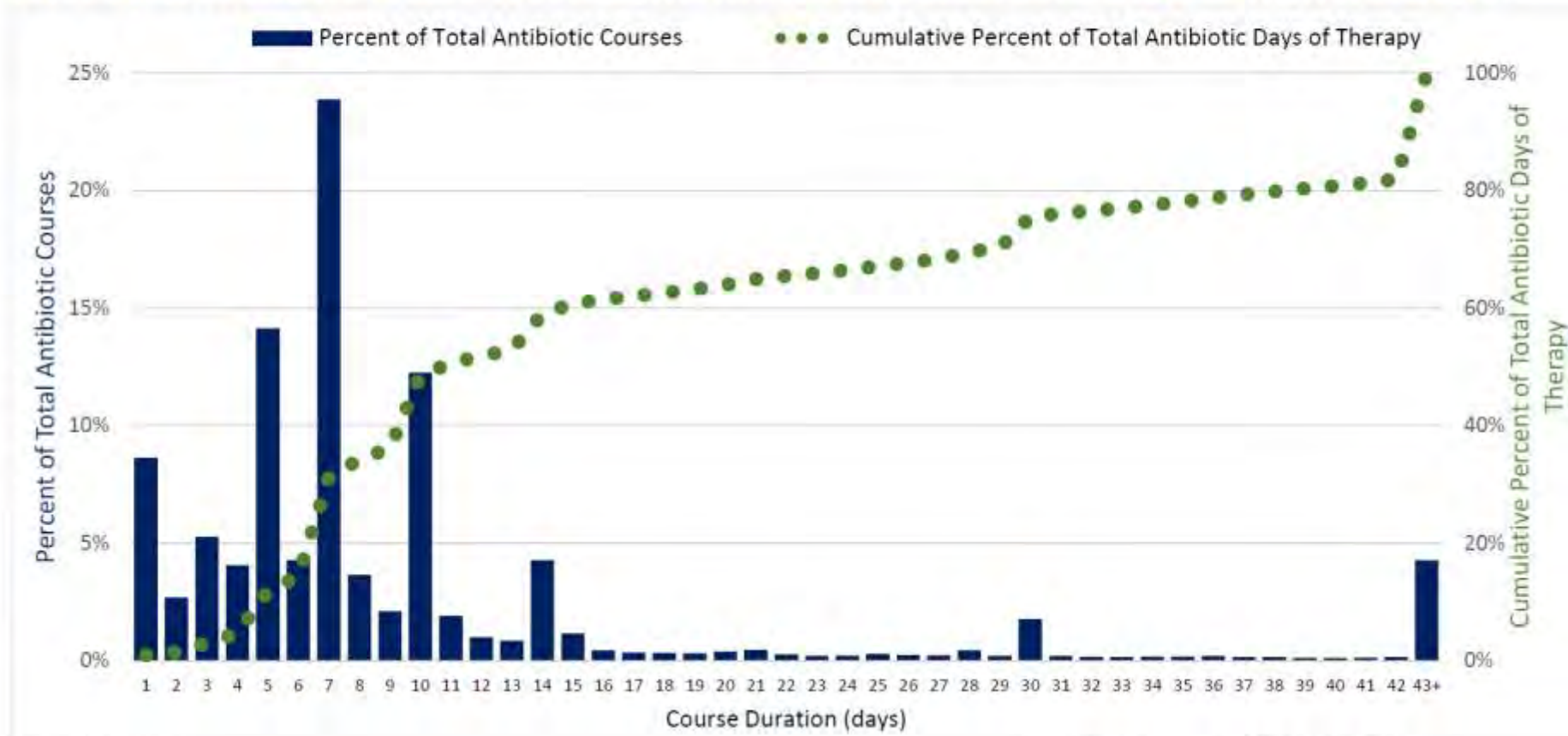
Decreases in Antibiotic Use Rates in LTC Facilities, 2013-2021



[Description of national antibiotic prescribing rates in U.S. long-term care facilities, 2013–2021 | ASHE](#)

LTC Pharmacy Dispensing Data to Track Antibiotic Use

18% of antibiotic DOTs were contributed by courses longer than 42 days.



Gouin et al., ASHE 2024

Data Source: PharMerica

[Description of national antibiotic prescribing rates in U.S. long-term care facilities, 2013–2021 | ASHE](#)

Antibiotic Use Collaborative Database for Nebraska LTCF

- An opportunity is available for Nebraska LTCF to collaborate with antimicrobial stewardship experts through the Nebraska ASAP program
- The aim of the Nebraska ASAP LTCF Antibiotic Use Tracking Collaborative is to provide participating LTCFs with both **facility-specific** and **benchmarked** antibiotic use information to guide their initiatives
- There are currently 39 LTCF enrolled in the database

How to Participate

Step 1:

ASAP LTC AU Database Commitment Letter

Nebraska Antimicrobial Stewardship Assessment and Promotion Program (ASAP) Long-Term Care Facility Antibiotic Use Tracking Collaborative Commitment Letter

As a participant in the Nebraska Long-Term Care Facilities Antibiotic Use Tracking Collaborative, you agree to participate with and maintain a commitment to report all the information of Nebraska ASAP (Antimicrobial Stewardship Assessment and Promotion Program) through the Nebraska ASAP program. Nebraska ASAP is a non-regulatory and is funded by the Nebraska Department of Health and Human Services, Nebraska Antimicrobial Stewardship and Infection Prevention (ASAP) Program through a CDC grant. The goal of the Nebraska ASAP Long-Term Care Facility Antibiotic Use Tracking Collaborative is to provide participating long-term care facilities with best practices, and best practices of Nebraska antibiotic use information to the state and national antibiotic use database.

(Facility Name) is participating in the Nebraska ASAP Long-Term Care Facility Antibiotic Use Tracking Collaborative.

As part of this collaborative, the Facility agrees to:

- Submit aggregated monthly facility antibiotic use data to the system, as well as submit data to the Nebraska ASAP database.
- Submit monthly data submission with details:
 - Days of Antibiotic Therapy
 - Number of antibiotic prescriptions
 - Total resident days
- Submit monthly data (if chosen by the facility and program) may include:
 - Short-day related numbers
 - Duration of antibiotic treatment in the facility by indication
 - Appropriateness of antibiotic prescriptions based on consensus pharmacist review
 - Facility antibiotic use by agent

Note: Antibiotic data submission can be requested by any of the facility's staff members (e.g., infection preventionist, pharmacist, or nursing administrator) or by the facility's pharmacist.

Consent: I hereby agree to allow this submitted information to be used in the state and national antibiotic use database.

Participating facility will report Nebraska ASAP for:

1. Increase and promote the antibiotic stewardship use database
2. Increase antibiotic, health, and diagnosis to enhance pharmacists and infection preventionists that antibiotic stewardship
3. Increase antibiotic use data reports to the facility
4. Increase antibiotic use data reports and information
5. Increase antibiotic use data reports and information

Nebraska ASAP database. The information collected in this database may be used by Nebraska ASAP to provide information for antibiotic stewardship improvement and to provide aggregated data to the state and national antibiotic use database.

On behalf of (Facility Name), I hereby commit to participating in the Nebraska ASAP Long-Term Care Facility Antibiotic Use Tracking Collaborative in the above stated ways.

Signature of Facility Representative: _____ Title: _____

Printed Name: _____ Date: _____

(Signature) (Facility Name) (Title) (Date)

Step 2:

Nebraska ASAP will email you a link each month to enter 3 data points.

- Total days of antibiotic therapy
- Number of antibiotic starts
- Total resident days

Nebraska ASAP Collaborative: Antibiotic Use in Long-Term Care Facilities

This REDCap antimicrobial use database is used by the Nebraska ASAP collaborative to track antimicrobials prescribed in long-term care facilities. The information collected in this REDCap database may be used by Nebraska ASAP for quality improvement purposes and only de-identified, aggregated data may be shared outside of the submitting facility. By proceeding to enter data in the REDCap database, the user agrees to the above-stated terms and conditions.

13. Name of the Facility (Required) _____

14. Number of facility beds (Required) _____

15. Submitter Name (Required) _____

16. Submitter Role (Required) _____

17. Contact Email (Required) _____

18. Reporting Month and Year (Required) _____

a. Total days of therapy of antibiotics in the facility during the reporting month (Required) _____

b. Number of antibiotic therapy starts in the facility during the reporting month (Required) _____

c. Total resident days in the facility during the reporting month (Required) _____

d. On the day of this survey, how many residents are receiving care in your facility by the following primary service type? (Required)

<input type="checkbox"/> Long-term nursing	<input type="checkbox"/> Home
<input type="checkbox"/> Skilled nursing and/or short-term rehabilitation	<input type="checkbox"/> Unknown
<input type="checkbox"/> Hospice	
<input type="checkbox"/> Palliative	
<input type="checkbox"/> Respite	
<input type="checkbox"/> Other (specify): _____	

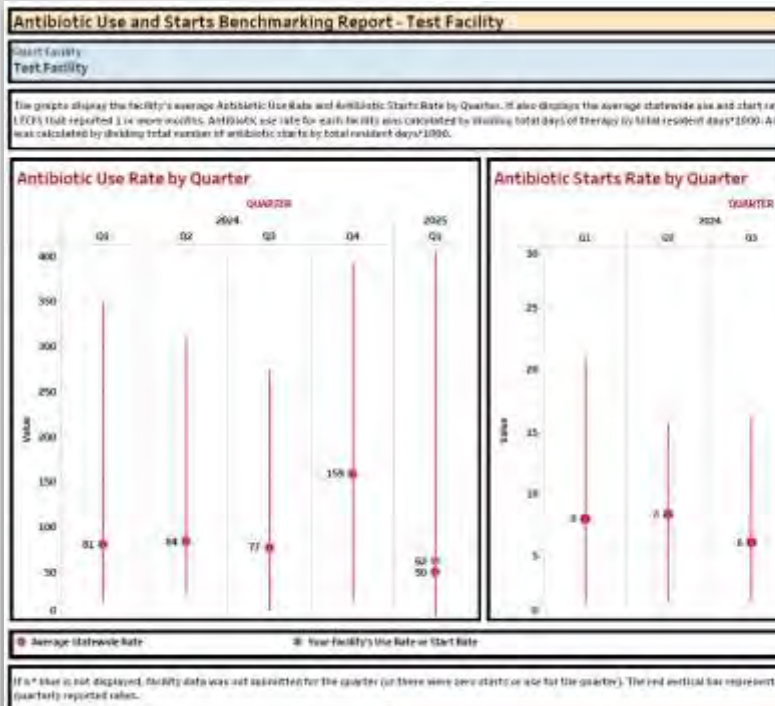
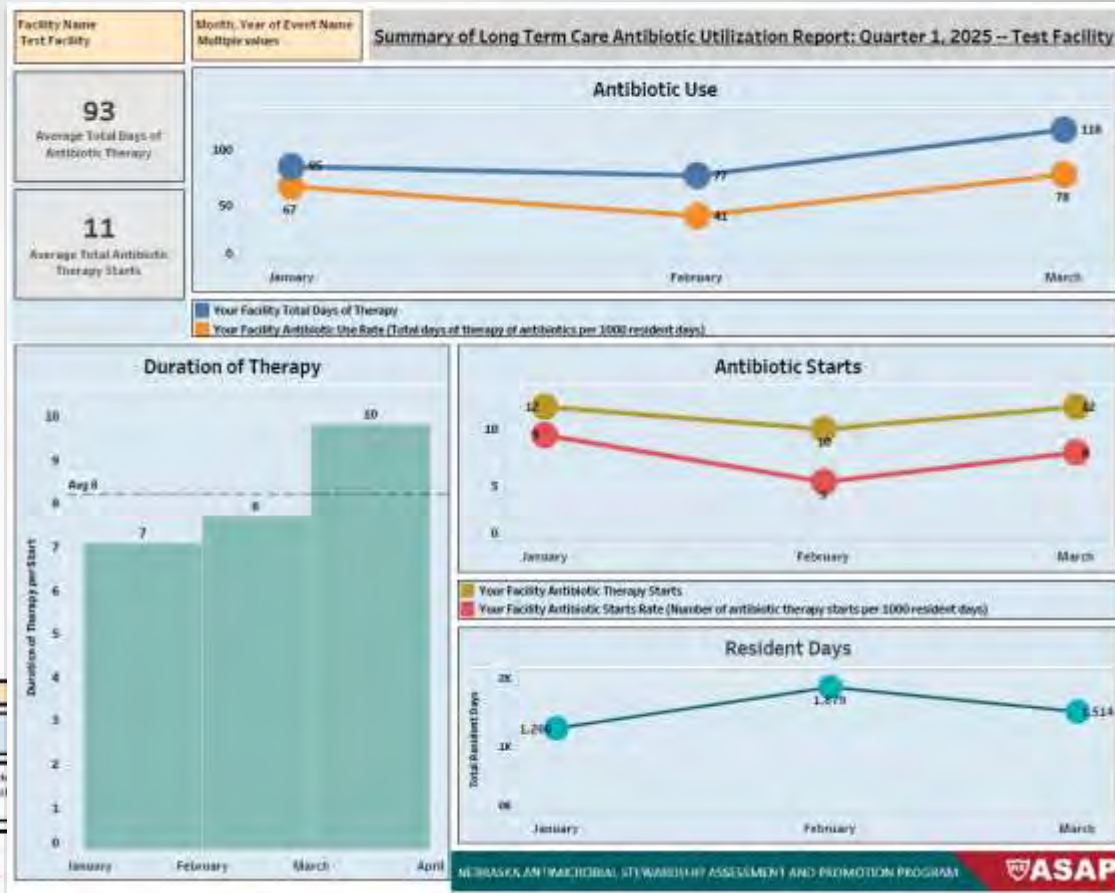
e. Number of infections created (Optional) _____

f. Number of antibiotic prescriptions reviewed by consultant pharmacist this month (Optional) _____

g. Percentage of appropriate antibiotic prescriptions after consultant pharmacist review (Optional) _____

Sample LTC Antibiotic Use report:

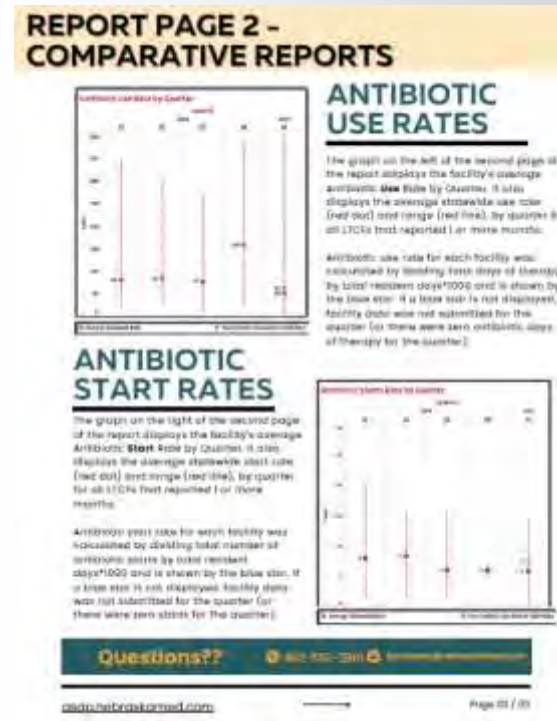
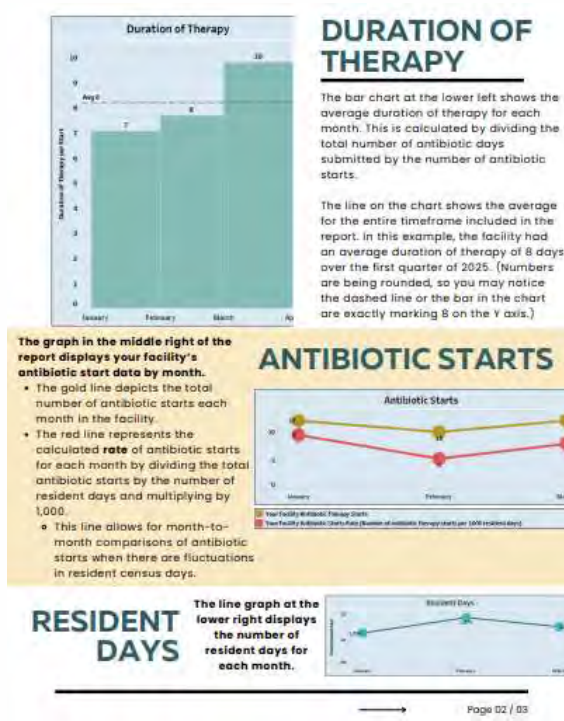
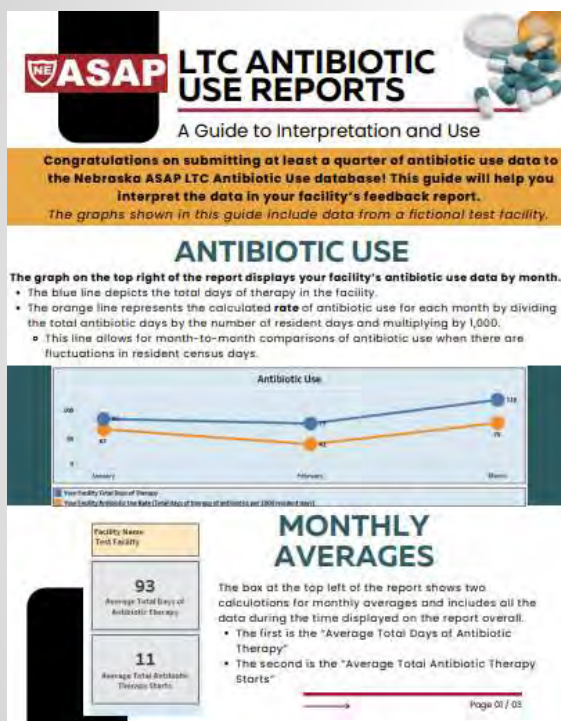
Facility Level Data – Page 1



Collaborative Comparative Data – Page 2

ASAP will provide:

- ✓ Report interpretation guide
- ✓ Access to an ID physician/pharmacist for assistance





Thank you!

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dgerman@nebraskamed.com

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