

# KASIC Long-Term Care Needs Assessment Report

Kentucky Antimicrobial Stewardship Innovation Consortium



## Introduction:

The Long-Term Care (LTC) Needs Assessment Survey was developed to help identify antimicrobial stewardship needs for LTC facilities throughout Kentucky.

## Methods:

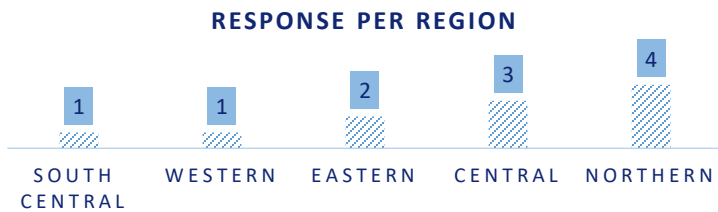
The survey was adapted from the CDC antimicrobial stewardship core elements for nursing homes and created as a REDCap survey. The survey was distributed through an email campaign in April 2023 and made available on the KASIC webpage. There are approximately 225 LTC facilities on the KASIC email list-serv. Additionally, LTC partners including Signature Healthcare and Kentucky Association of Health Care Facilities/Kentucky Center for Assisted Living promoted the survey to their members.

## Results:

Survey was open from April 2023 – June 2023. There were a total of 11 responses.

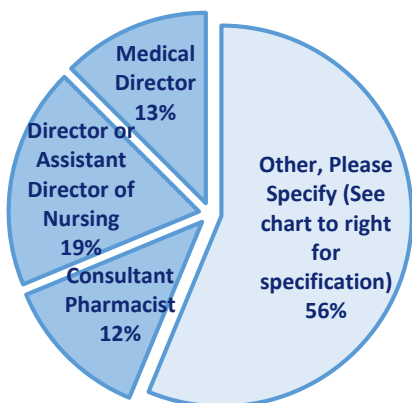
**Greatest area of need are highlighted in blue for each question**

### Demographics



**Question 1:** Has your facility identified a lead(s) for antibiotic stewardship activities? If yes, indicate who is accountable for stewardship activities (select all that apply). If no, please leave selections unchecked.

### FACILITY RESPONSE



### Other



**Question 2:** Can you facility demonstrate leadership support for antibiotic stewardship through one or more of the following actions? If yes, indicate which of the following are in place (select all that apply). If no, please leave selections unchecked

Answer	Total # of Responses	Rate
Written statement of leadership support to improve antibiotic use	10	90.91%
Antibiotic stewardship duties included in medical director position description	7	63.64%
Antibiotic stewardship duties included in director of nursing position description	7	63.64%
Leadership monitors whether antibiotic stewardship policies are followed	5	45.45%
Antibiotic use and resistance data is reviewed in quality assurance meetings	6	54.55%

**Question 3:** Does your facility have access to individual(s) with antibiotic stewardship expertise? If yes, indicate who is accountable for stewardship activities (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
External infectious disease/stewardship consultant	4	36.36%
Partnering with stewardship team at referral hospital	1	9.09%
Consultant pharmacy has staff trained/is experienced in antibiotic stewardship	4	36.36%
Other, please specify: <ul style="list-style-type: none"> <li>• Program encompasses inpt, outpt, SNU, etc</li> <li>• KDPH/ Regional IP</li> <li>• Internal pharmacist &amp; IP</li> </ul>	3	27.27%

**Question 4:** Does your facility have policies to improve antibiotic prescribing/use? If yes, indicate which policies are in place (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
Reviews antibiotic agents listed on the medication formulary	6	54.55%
Developed facility-specific treatment recommendations for infections	4	36.36%
Developed facility-specific algorithms for appropriate diagnostic testing (e.g., obtaining cultures) for specific infection	4	36.36%
Developed facility-specific algorithm for assessing residents	5	45.45%
Requires prescribers to document a dose, duration, and indication for all antibiotic prescriptions	7	63.64%
Other, please specify	0	0.00%

**Question 5:** Has your facility implemented practices to improve antibiotic use? If yes, indicate which practices are in place (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
Implemented an infection specific intervention to improve antibiotic use. Please indicate for which condition(s).	1	9.09%
Implemented an antibiotic review process/"antibiotic time out"	4	36.36%
Developed reports summarizing the antibiotic susceptibility patterns (e.g., facility antibiogram)	5	45.45%
Implemented process for communicating or receiving antibiotic use information when residents are transferred to/from other healthcare facilities	6	54.55%
Utilizes a standard assessment and communication tool for residents suspected of having an infection	5	45.45%

**Question 6:** Does your consultant pharmacist support antibiotic stewardship activities? If yes, indicate activities performed by the consultant pharmacist (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
Reviews microbiology culture data to assess and guide antibiotic selection	4	36.36%
Establishes standards for clinical/laboratory monitoring for adverse drug events from antibiotic use	4	36.36%
Reviews antibiotic courses for appropriateness of administration and/or indication	6	54.55%

**Question 7:** Does your facility monitor one or more measures of antibiotic use? If yes, indicate which of the following are being tracked (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
Monitors one or more ABX use: Other, please specify	0	0.00%
Monitors rates of new antibiotic starts/1,000 resident-days	5	45.45%
Monitors antibiotic days of therapy/1,000 resident-days	4	36.36%
Performs point prevalence surveys of antibiotic use	3	27.27%
Adherence to facility-specific treatment recommendations	2	18.18%
Adherence to prescribing documentation (dose, duration, indication)	10	90.91%
Adherence to clinical assessment documentation (signs/symptoms, vital signs, physical exam findings)	8	72.73%

**Question 8:** Does your facility monitor one or more outcomes of antibiotic use? If yes, indicate which of the following are being tracked (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
Monitors one or more outcomes: Other, please specify	1	9.09%
Monitors rates of adverse drug events due to antibiotics	7	63.64%
Monitors rates of antibiotic-resistant organism	10	90.91%
Monitors rates of C. difficile infection	9	81.82%

**Question 9:** Does your facility provide facility-specific reports on antibiotic use and outcomes with clinical providers and nursing staff? If yes, indicate which of the following are being tracked (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
Other, please specify	0	0.00%
Personalized feedback on antibiotic prescribing practices (to clinical providers)	6	54.55%
Report of facility antibiotic susceptibility patterns (within last 18 months)	5	45.45%
Measures of outcomes related to antibiotic use (i.e., C. difficile rates)	6	54.55%
Measures of antibiotic use at the facility	8	72.73%

**Question 10:** Does your facility provide educational resources and materials about antibiotic resistance and opportunity for improving antibiotic use? If yes, indicate which of the following are being tracked (select all that apply). If no, please leave selections unchecked.

Answer	Total # of Responses	Rate
Other, please specify	0	0.00%
To Residents and families	3	27.27%
To Nursing staff (e.g., RNs, LPNs, CNAs)	9	81.82%
To Clinical providers (e.g., MDs, NPs, PAs, PharmDs)	6	54.55%
Other, please specify	0	0.00%

## Education Requests:

Participants were asked what education topics they would find most useful. Responses were free-text. 6 of the 11 facilities responded to this question.

- A) Unnecessary antibiotic usage
- B) Over prescribing antibiotics or when the labs do not meet the definition to support antibiotic use
- C) Infection specific protocols
- D) Implement a ASP in LTC and 72 hour timeout
- E) Education on UTIs and obtaining cultures based on “bad smelling urine”
- F) Decreasing duration of use, improving documentation