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Antimicrobial Stewardship Knowledge, Attitudes, and Practices (KAP) Among Health Care Providers in a Community Hospital Network

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Drivers of inappropriate Healthcare worker KAP is not well described, and surveys to antimicrobial use can be linked to deficiencies in knowledge. assess KAP are not standardized attitude and practice (KAP) in the United States. Background Understanding healthcare Utilizing a consistent and personnel KAP related to validated KAP survey is important antimicrobial stewardship (AS) for comparison across practices may prove valuable for future AS within the United States initiatives.

Methods

- We utilized an internationally validated survey translated for use in the United States that contained 41-questions related to AS KAP.
 - The first 21-questions were answered by all respondents
 - The final 20 questions were only answered by healthcare personnel who prescribe antibiotics
- Prescribers, pharmacists, nurses, and administrators at 40 community hospitals within the Duke Antimicrobial Stewardship Outreach Network (DASON) were invited via e-mail to take the anonymous, voluntary webbased survey (via RedCAP).
- Reminders to complete the survey were given at regularly scheduled stewardship meetings and reminder emails were sent to enhance survey
- Responses were collected from February 21, 2024 April 30, 2024.

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Total Responses	Complete Survey Responses	Total Number of Hospitals Who Responded		
168	167	24		

Results

Table 1. Survey Participant Demographics

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Category (N=167)	n (%)	
Years of experience in profession, median (IQR)	15 (15.3)	
Years of experience in current institution, median (IQR)	8.5 (14.3)	
Hospital Location Georgia North Carolina South Carolina Virginia	17 (11) 125 (75) 3 (2) 20 (12)	
Currently in training	15 (9)	
Able to prescribe antibiotics	24 (14)	

Table 2 Knowledge-based Statements

Table 2. Knowledge-based Statements			
Knowledge Statements for All Respondents (N=167)	Strongly Agree or Agree, n (%)		
Appropriate use of antibiotics may reduce antibiotic resistance	159 (95)		
Inappropriate antibiotic use can harm patients	159 (95)		
The incidence of antibiotic-resistant organisms can be reduced by optimizing antibiotic prescribing patterns and infection prevention and control practices	158 (95)		
I trust the microbiology test results that I receive at my healthcare facility	149 (89)		
I am familiar with the term antibiotic stewardship	148 (89)		
have access to locally endorsed infectious diseases treatment guidelines used at my healthcare facility	113 (68)	[
I am able to access my healthcare facility's updated antibiogram	108 (65)		
Antibiotic resistance is a problem at my healthcare facility	42 (25)	ĺ	

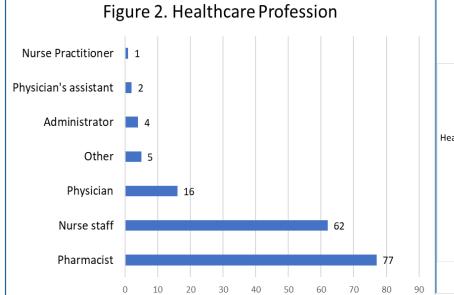


Table 3. Attitude-based Statements

Attitude Statements for All Respondents (N=167)	Strongly Agree or Agree, n (%)	
Optimizing antibiotic use is a priority at my healthcare facility	141 (84)	
I value recommendations from the antibiotic stewardship team at my healthcare facility	131 (78)	
I feel comfortable recommending an intervention to my colleagues on antibiotic use	115 (69)	
More guidance from the antibiotic stewardship team could improve antibiotic use at my healthcare facility	110 (66)	
The importance of antibiotic stewardship is communicated (e.g., via posters, emails) at my healthcare facility	105 (63)	

Link to

Validated

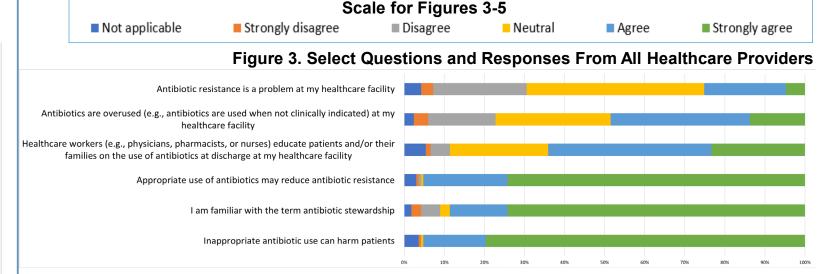


Figure 4. Select Questions and Responses From Healthcare Providers Who Prescribe Antibiotics

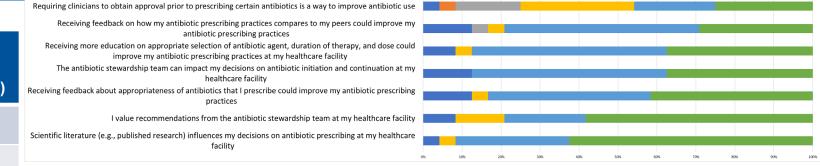
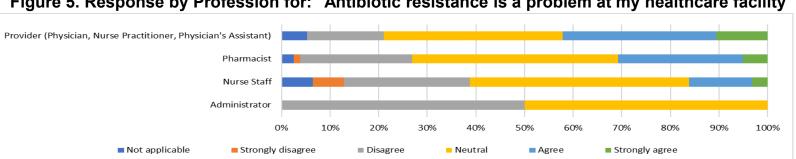


Figure 5. Response by Profession for: "Antibiotic resistance is a problem at my healthcare facility"





Conclusions

- Healthcare providers within DASON were aware of the importance of AS and its effect on antimicrobial resistance and patient outcomes, however few found that resistance was a problem at their own institution.
- Prescriber feedback was seen as a valuable educational tool, as most prescribers valued AS feedback and agreed feedback would improve antibiotic selection

References: 1. Hosp Pharm. 2016;51(2):149-157. doi:10.1310/hpj5102-149. 2. Heliyon. 2023;9(10):e21166. Published 2023 Oct 18.