

A Qualitative Assessment of Drivers of Antimicrobial Prescribing for Pediatric Patients in Diverse Ambulatory Settings

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BACKGROUND

- Antimicrobial prescribing rates vary widely across the country for both children and adults.¹
- Prescribing also varies across ambulatory settings including primary care, urgent care, retail clinics, and emergency departments, as well as by provider type and training.^{2,3}

OBJECTIVE

To Identify and compare non-clinical drivers of antimicrobial prescribing for children across diverse outpatient settings through qualitative methods.

METHODS

- Recruited physicians and advanced practice providers (APPs) working in sites affiliated with Vanderbilt
 - primary care
 - urgent care
 - retail health clinics (**Table 1**).
- Conducted in-person or telephone interviews
- An interim analysis was performed using an iterative and inductive process with 10 transcripts.

Sample Interview Questions:

- Rank priorities: cost/coverage, familiarity, ease of dosing, guidelines, antibiogram data, antibiotic spectrum
- What kind of scenarios make it difficult to align with your priorities?
- Pharyngitis and otitis case presented. Tell what you think and how you would manage.
- Do you think your setting is a high or low prescribing setting and why?
- What do you think are the biggest barriers to improving antibiotic prescribing?
- Do you receive feedback on your prescribing and does it impact your practice?

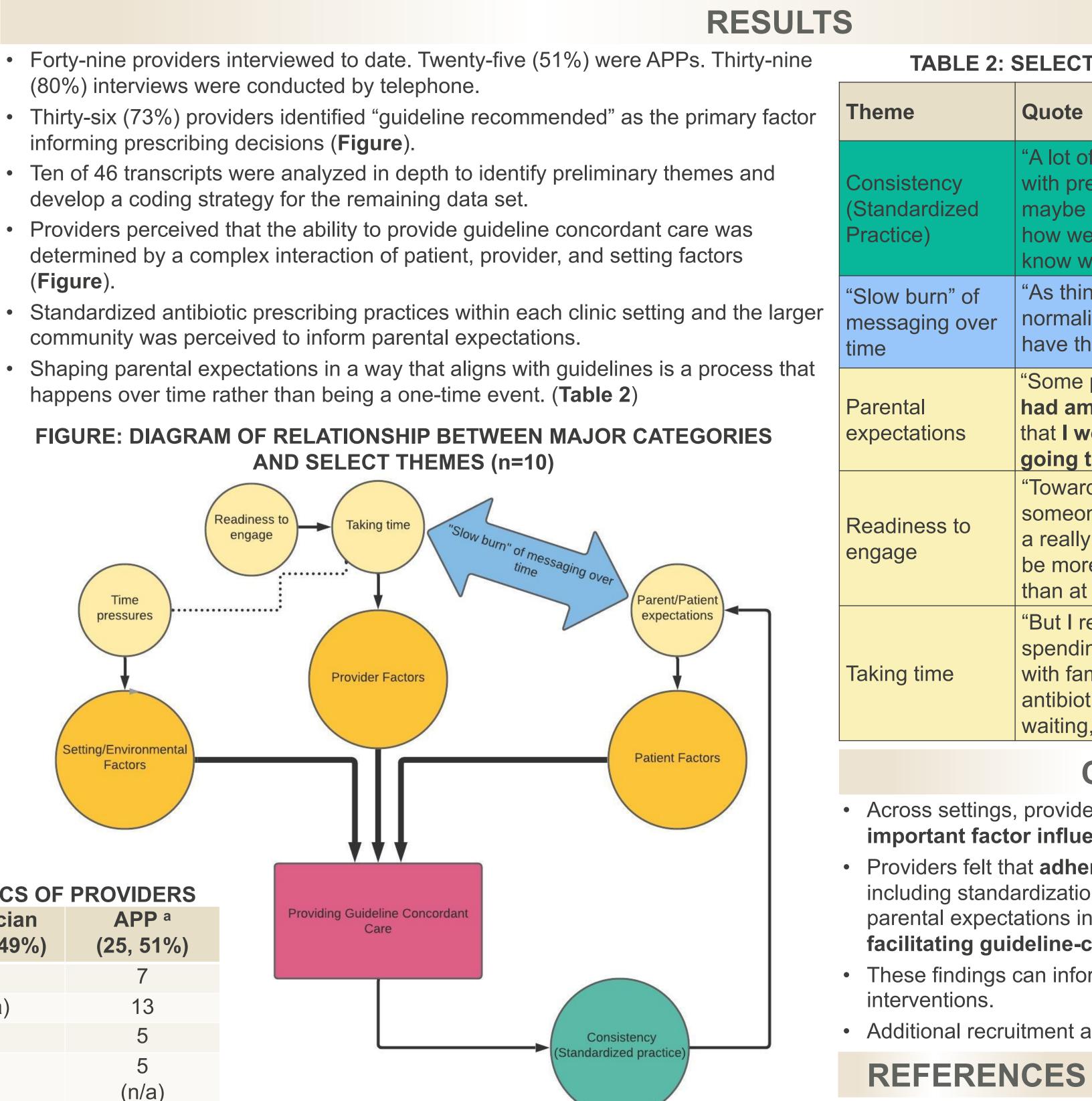


TABLE 1: CHARACTERISTICS OF PROVIDERS

Total (n=49)	Physician (n=24, 49%)	APP ^a (25, 51%)
Primary Care (n=17)	10	7
Retail Care (n=13)	(n/a)	13
Urgent Care:	14	5
Walk-in Clinic (n=9)	4	5
After-hours (n=10)	10	(n/a)
	^a APP = Advanced Practice Providers	

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TABLE 2: SELECT THEMES AND SAMPLE QUOTES (n=10)

ne	Quote
istency Idardized ice)	"A lot of it stems from what they're familiar with , like with previous providers that they've interacted with or maybe the parents' own providers. It's really kind of how we conduct ourselves that helps the parents to know what's normal"
v burn" of aging over	"As things change slowly it just becomes more normalizedThings change slowly as more people have the experience So, it just takes a slow burn ."
ntal ctations	"Some parents will say, 'Last time she had this she had amoxicillin and she was better.' That would be one that I would know that's what the parents think is going to happen during the visit."
liness to ge	"Towards the end of the day that fatigue sets in So if someone is going to, I don't want to say argue, but have a really tough time hearing the education piece, I may be more apt to give in towards the end of the shift than at the beginning."
g time	"But I really, really, really try to make an effort in spending 10 minutes or so of just education, talking with families about, hey this is where we are with antibiotics even sometimes when we've got someone waiting, just really spending that time on education."

CONCLUSIONS

Across settings, providers cited clinical guidelines as the most important factor influencing antibiotic prescribing.

Providers felt that adherence to guidelines had downstream benefits including standardization of prescribing practices which may shape parental expectations in a way that aligns with guidelines, thus facilitating guideline-concordant care in future encounters.

3. Katz, S, et al. SHEA Decennial Conference, 2020

• These findings can inform design of outpatient stewardship

Additional recruitment and analysis is ongoing.

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2. Palms DL, Hicks LA, Bartoces M, et al. Comparison of Antibiotic Prescribing in Retail Clinics, Urgent Care Centers, Emergency Departments, and Traditional Ambulatory Care Settings in the United States. JAMA Internal Medicine. 2018:178(9):1267-1269.