

OVERVIEW

- The development of facility-specific antibiotic guides is strongly encouraged; however, the inability to access these resources quickly and easily can be a barrier to optimal antimicrobial prescribing.
- A systematic review evaluating stewardship apps found that the use of antimicrobial stewardship apps promoted access to and knowledge of antimicrobial prescribing policy and increased adherence to guidelines in hospitals.¹
- Implementing an app that would be accessible to both inpatient and outpatient antimicrobial prescribers would benefit a larger population and potentially improve antimicrobial guideline access, awareness, and adherence.

PURPOSE

- This study phase aims to determine whether providing guidelines in an easy-to-use mobile app increases access to and awareness of these resources available to providers.

Figure 1. Sanford Guide with Stewardship Assist Mobile App²

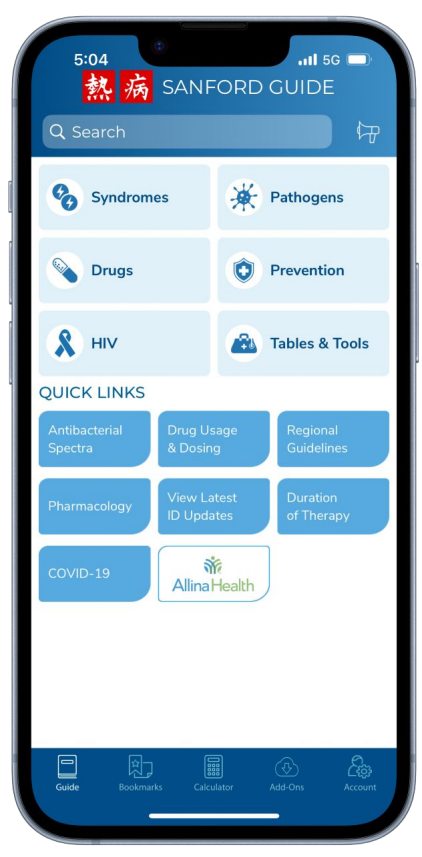
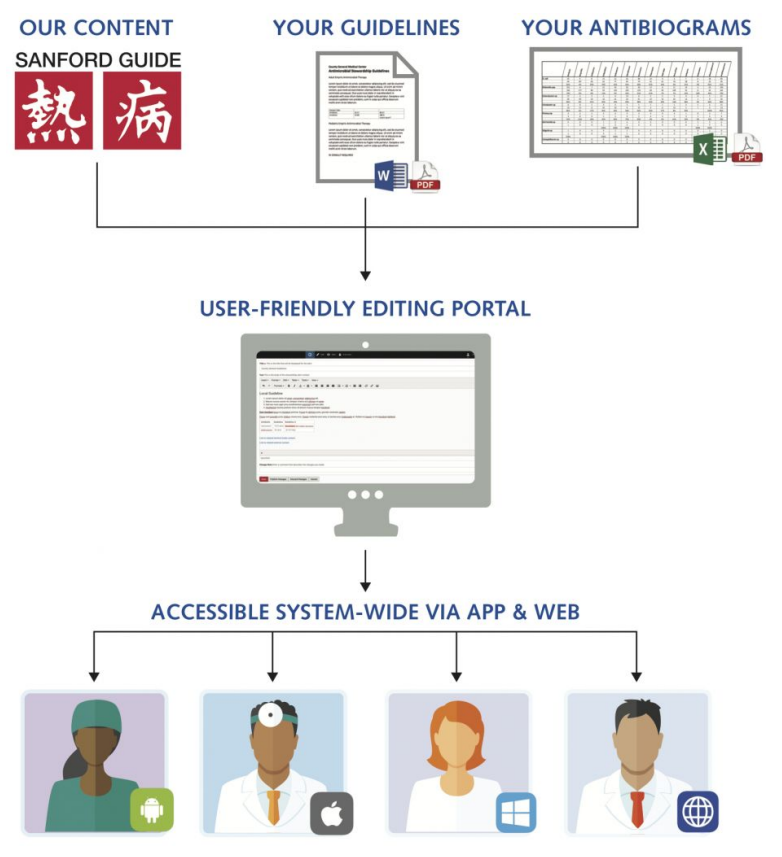


Figure 2. Stewardship Assist Platform²



METHODS

- Multi-site (single health-system), quasi-experimental study.
- In phase one, facility guidelines were migrated over to the Sanford Guide with Stewardship Assist application, education was provided, the app was launched (March 14, 2022), and a voluntary pre- and one-month post-implementation REDcap provider survey was distributed.
- Phase two of this study will evaluate antibiotic prescribing for limited indications pre-post app implementation and will include a six-month follow-up survey to assess continued trends in guideline awareness and accessibility.
- The primary endpoint for phase one is to evaluate the usefulness and effect of the app on provider guideline awareness.

RESULTS

- As of October 6, 2022, 558 practitioners have registered for mobile app access, with the facility-specific antibiogram being the most viewed page.
- Thirty-five participants completed the pre-implementation survey, and twenty-three completed the one-month follow-up survey.
- Respondents included medicine residents (54.3%), hospitalists (17.1%), primary care (11.4%), infectious disease (8.6%), internal medicine (5.7%), and others (2.9%) (figure 2).
- Statistically significant increases pre-post app implementation for strongly agree/agree responses were seen for the statements, "I feel confident in using an antibiogram" (71.4% vs. 95.7%, p=0.02) and "I can easily access our facility-specific antibiotic guidelines when needed" (68.6% vs. 95.7%, p=0.01).

Figure 3. Survey Respondents by Specialty

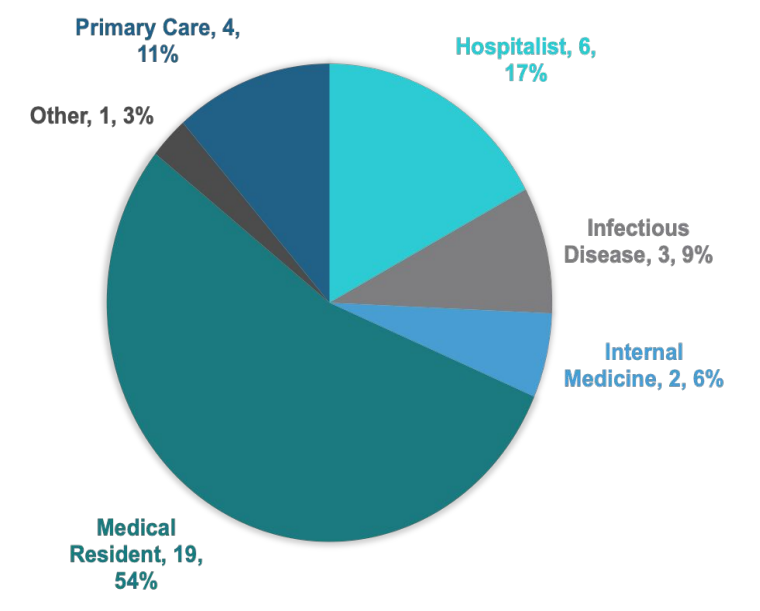
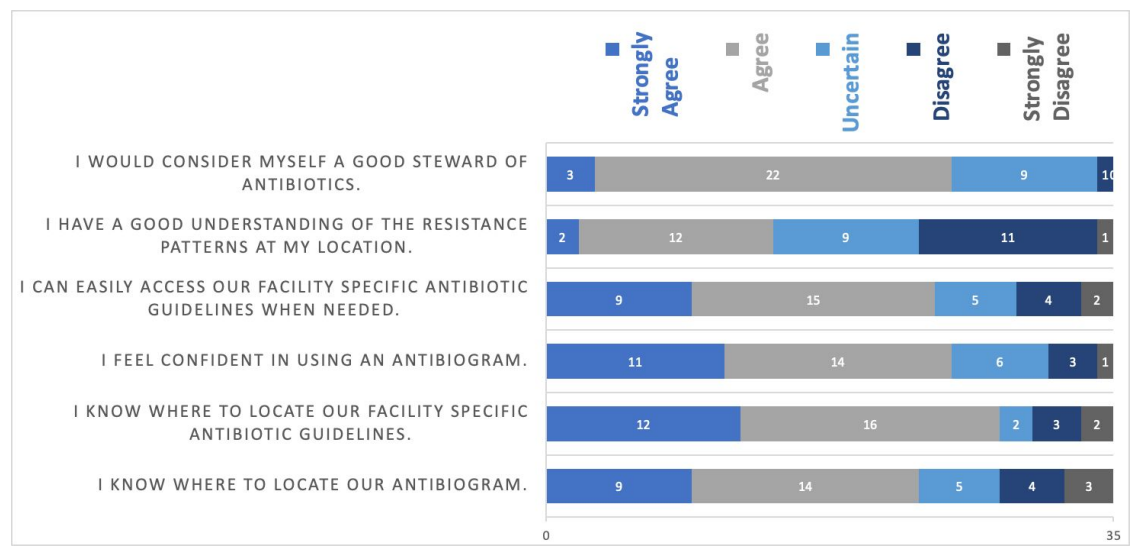


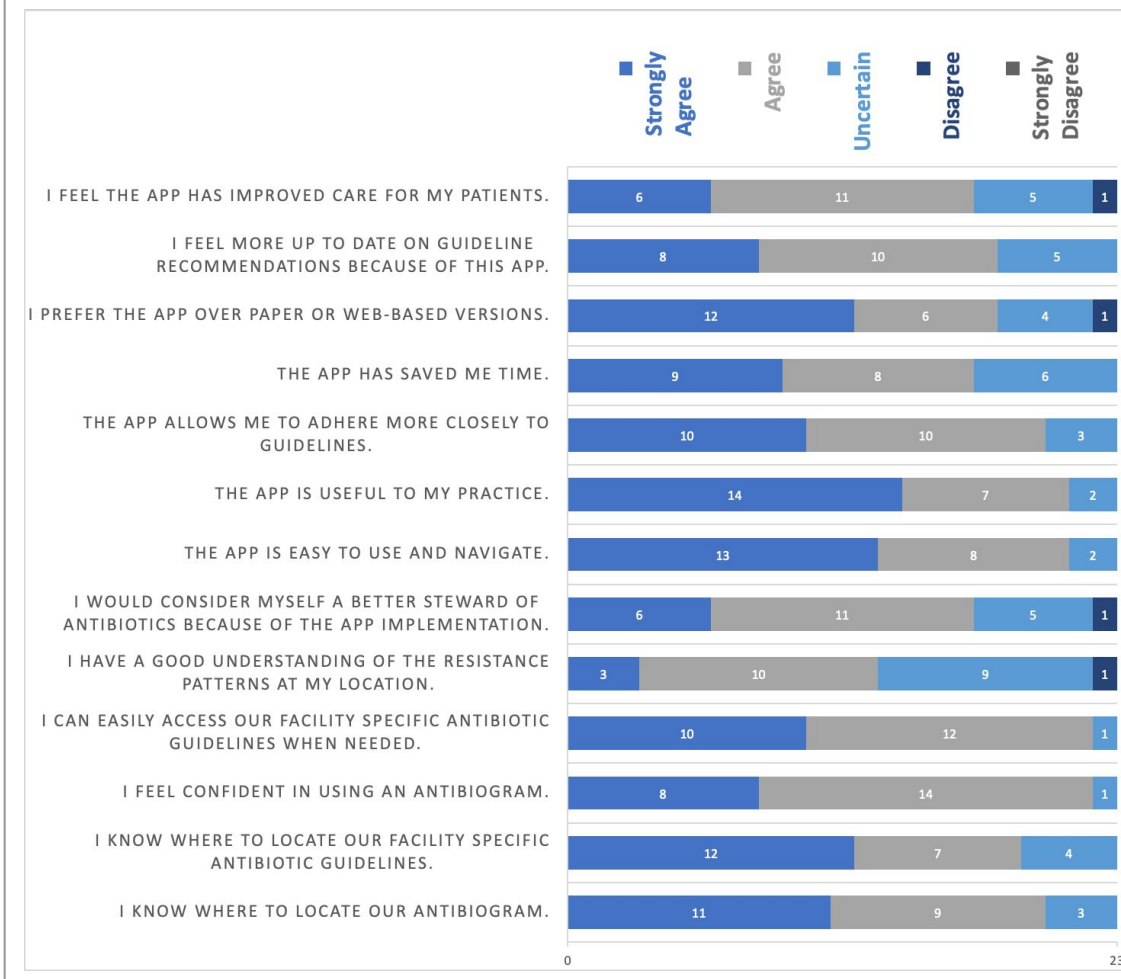
Figure 4. Pre-implementation Survey



RESULTS (cont.)

- At one month, 73.9% and 91.3% of providers agreed with the statements "I would consider myself a better steward of antibiotics because of the app implementation" and "The app is useful to my practice," respectively.

Figure 5. One-month Post Survey



CONCLUSIONS

- Implementing an antimicrobial stewardship app at a large, non-academic health system promoted accessibility to facility-specific guidelines, reinforced antimicrobial stewardship ideals, and was a valuable resource for prescribers.

DISCLOSURES

The authors of this presentation have nothing to disclose concerning possible financial or personal relationships with commercial entities for this phase of the study. Images reprinted with permission from Sanford Guide.

REFERENCES

- Helou et al. PLOS ONE. 2020;15(9):e0239751.
- Sanford Guide with Stewardship Assist Flyer, Antimicrobial Therapy, Inc. 2021.

