

Designing and Evaluating a Facilitation Workshop for Antimicrobial Stewardship Teams to De-Implement Inappropriate Perioperative Antibiotic Use in Pediatric Hospitals: The OPerAtic Trial

Background

- Approximately 20% of inappropriate antibiotic use in pediatric hospitals results from unnecessary postoperative antibiotic prophylaxis (POP)
- Facilitation, an active problem-solving approach, may be an effective strategy, but no standard facilitation training has been provided for antimicrobial stewardship programs (ASP)
- We describe the development and evaluation of a virtual facilitation workshop to increase antimicrobial stewards' ability to reduce POP

Methods

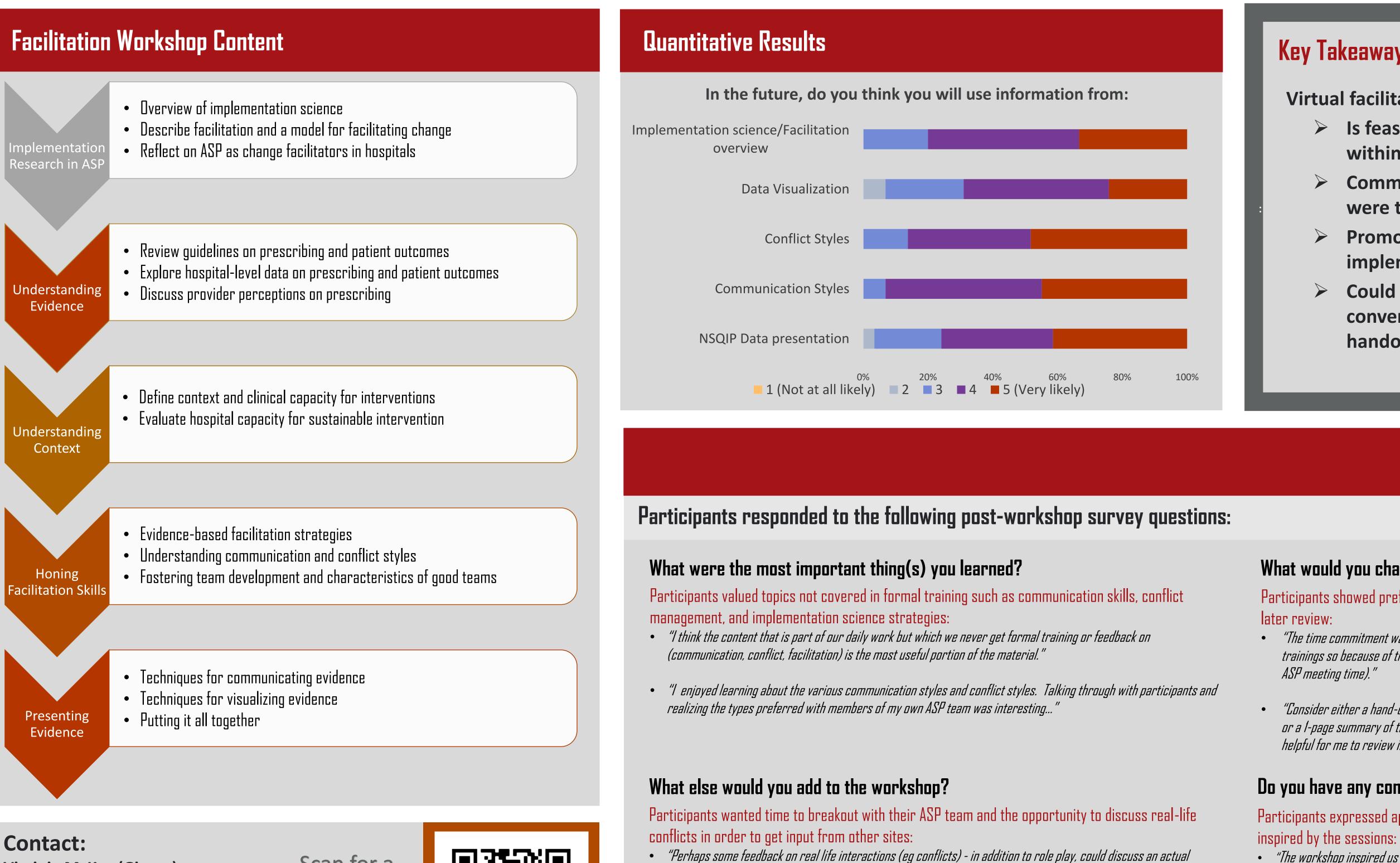
- Stepped-wedge randomized controlled trial with ASP clinicians in 9 pediatric hospitals comparing baseline intervention to facilitation intervention
- Intervention:
- Baseline intervention: ASP directed modification of surgical order set modification or development
- Facilitation intervention: active problem-solving approach with ASP clinicians to impact order set modification.
- Once entering intervention arm, ASP clinicians participate in a 4-session facilitation workshop over 4 weeks
- Participants completed a post-workshop electronic survey including Likert questions adapted from a published measure for practice facilitation and 4 openended questions
- Responses were analyzed descriptively

Participant Characteristics

Role	Ν	%	Self-rated Facilitation Experience	Ν	%
Physicians	19	63	Novice	16	53
Pharmacists	10	33	Experienced	14	47
Other	1	3	Expert	0	0
Total	30	100	Total	30	100

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conversation that occurred and how the steward could have applied tools from this workshop to be more effective" • "...I think my program could have used some time together just with members of the team to digest some of the material during the course (especially the last few sessions)- either at the very end or assigning our team the task of meeting during that week to bounce impressions off of each other..."

What would you change about the workshop?

- ASP meeting time)."

Do you have any comments or thoughts?

- achieve our goals."

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Key Takeaways

Virtual facilitation training:

- Is feasible and enables ASP teams to develop skills within the context of a clinician's schedule
- **Communication and conflict management training** were the most useful workshop elements
- Promotes evidence-based strategies for better deimplementation of unnecessary prescribing
- **Could be improved with more within group** conversation and additional materials like handouts

Participants showed preferences for shorter sessions, more interactive elements, and handouts for

• *"The time commitment was much more than I initially expected- it meant a chunk of my ASP time was tied up in these* trainings so because of this we did not get much done as a program during that month (this essentially replaced our

• *"Consider either a hand-out with an outline and key info from each session (perhaps with blanks to fill in as we learn)* or a I-page summary of the main points from each session. I took some notes but missed some things that would be helpful for me to review in the future."

Participants expressed appreciation for social interactions that occurred within the workshop or were

• "The workshop inspired us to set aside time for us to re-group on the project and see how we can work together to

"...doing the workshop with other groups was actually pretty helpful. I'd still prefer in person, but maybe it would be better to bring everyone together instead of you all going to each site? ...Or do a combination of in person and Zoom."