

Communication, Conflict, and Data:
Using facilitation training to optimize antibiotic
prescribing for children

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Nothing to disclose.



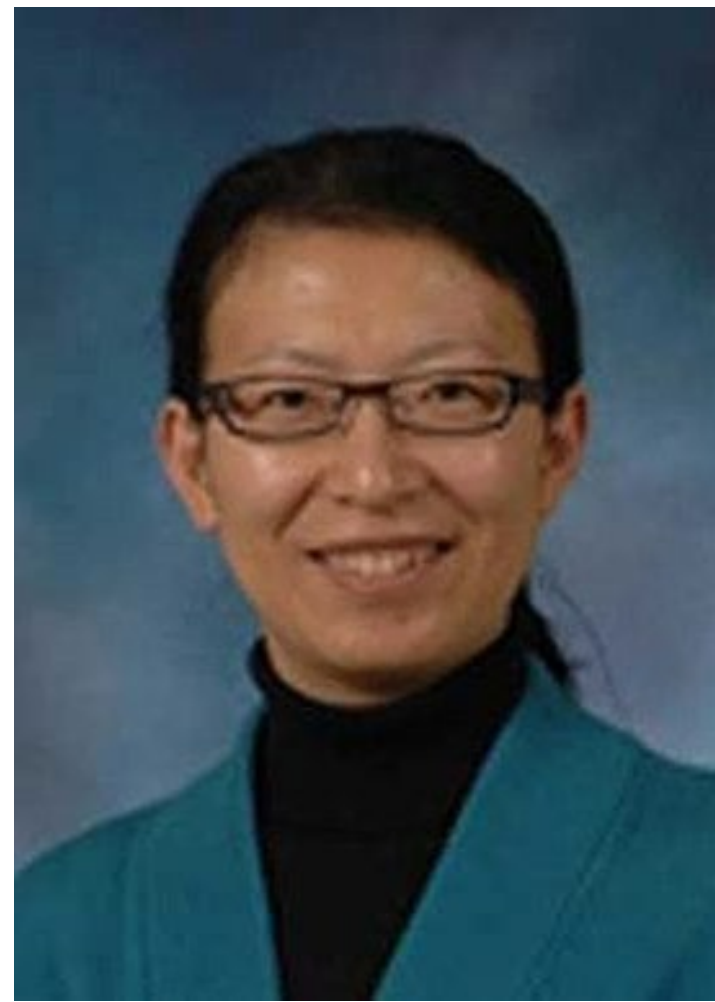
Jason Newland



Jackie Saito



Shawn Rangel



Esther Lu

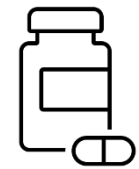


Ginger McKay

The rest of the team!

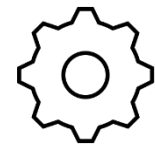
Agenda

01



Antibiotic Prescribing in Surgery

02



OPERATIC Trial

03



Facilitation Training

04



Evaluation, Lessons Learned

05



Next Steps

Antibiotic Prescribing in Surgery

- Inappropriate antibiotic use is a problem
- Approximately 20% of all inappropriate antibiotic use is from post - operative prophylaxis
- Surgical procedures are common in hospitalized children
- Guidelines suggest that only one dose of prophylaxis is needed in clean and clean - contaminated procedures

Antimicrobial Stewardship and Implementation Science

- Antimicrobial stewardship teams help ensure high quality prescribing
- Antimicrobial stewards use implementation strategies
 - Audit and feedback
- Implementation science can aid our understanding of how to best apply the evidence

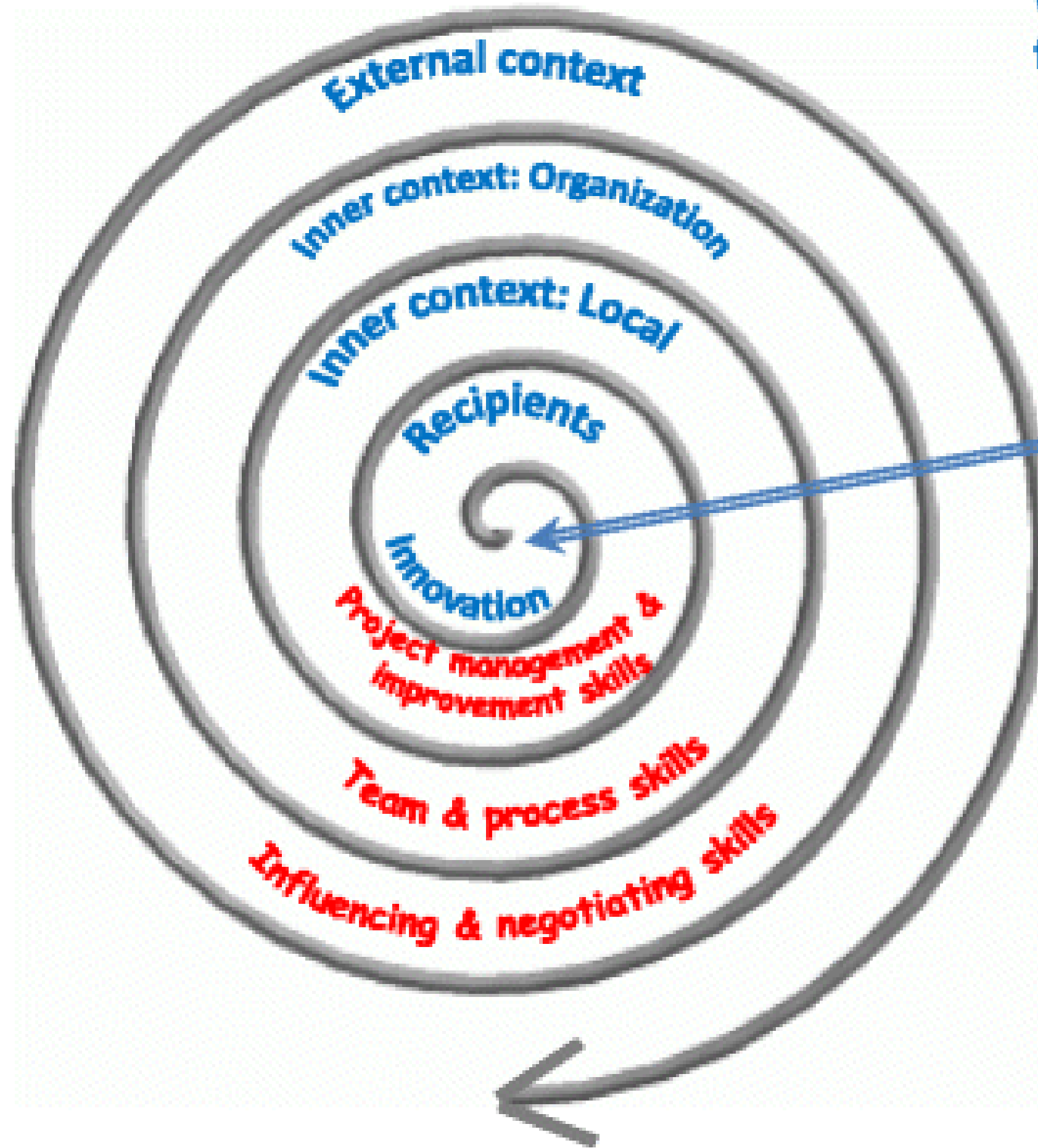
*A note about de
implementation...*

OPERATIC Trial

- Optimizing Peri - Operative Antibiotic in Children
- Goal: eliminate unnecessary post - operative antibiotics
- 9 sites, cluster randomized stepped - wedge
- (1) Order sets vs (2) order sets + facilitation

What is facilitation?

- Active mechanism to promote uptake of an evidence - informed intervention (program, practice)
- Facilitators: trained individuals to enable recipients to implement evidence - based practices across settings (Kitson et al, 1998)
- There are theories, frameworks, and processes by which to understand facilitation



What the facilitator focuses on

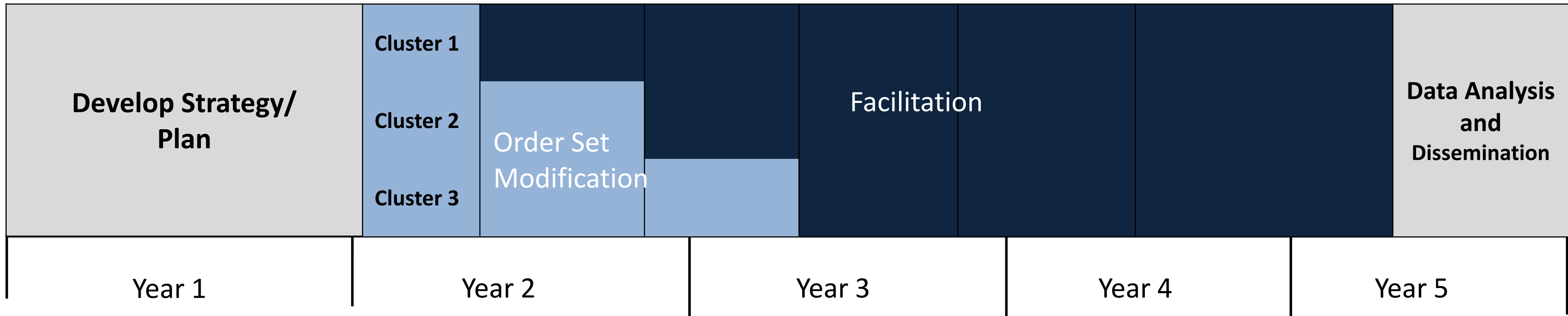
Facilitation:
Facilitator role/s and facilitation processes

What skills the facilitator needs

Harvey, G., Kitson, A. PARIHS revisited: from heuristic to integrated framework for the successful implementation of knowledge into practice. *Implementation Sci* 11, 33 (2015).

<https://doi.org/10.1186/s13012-016-0209-2>

Study Design



Facilitation Training

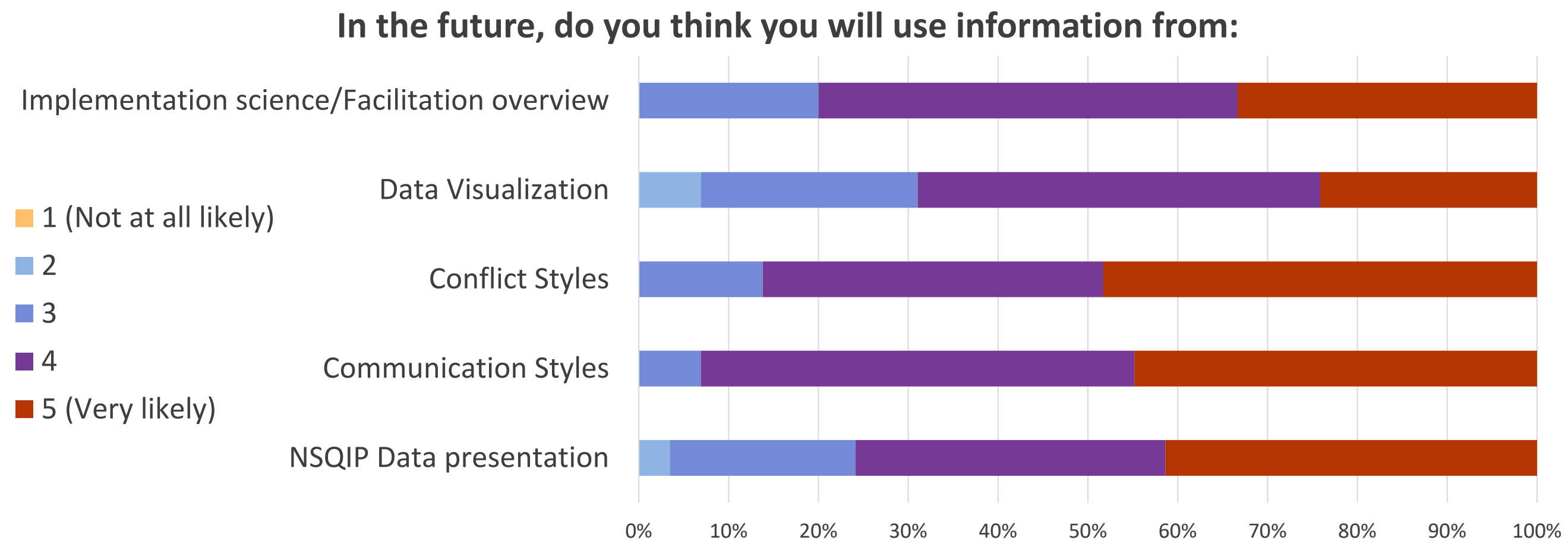
- 4 weeks, 2 -hour sessions on Zoom
- Attended by all the ASP members at each site
- Week 1: Introduction to Implementation Science
- Week 2: Evidence and Understanding Context (NSQIP - P)
- Week 3: Communication and Conflict
- Week 4: Data Communication and Visualization

Outcomes

1. Immediate workshop evaluation
2. Survey assessment of the feasibility, acceptability, and appropriateness of the strategies (order set change & facilitation)
3. Interviews about process, implementation

Workshop Evaluation

- 19 physicians, 10 pharmacists, 1 other
- 16 (53%) rated themselves as novice facilitators, 14 (47%) as experienced, none as expert
- Length: 20 people said the length was appropriate



Workshop Evaluation– most useful components

“Communication styles -- important to understand others approach a problem or issue with differing perspectives and ways to communicate. Understanding this can help frame your presentation of the issue or problem more effectively.”

“Tools for communication and visualization of data”

“I think the content that is part of our daily work but which we never get formal training or feedback on (communication, conflict, facilitation) is the most useful portion of the material.”

“Really having a better sense of how a manage (or not) conflict.”

Feasibility, Acceptability, and Appropriateness

<i>Order Set Changes</i>	Step 0	Step 1	Step 2	Step 3	Step 4
Acceptability	4.5	5	4.75	4.75	4.75
Appropriateness	4.5	5	5	5	5
Feasibility	3.75	4	3.75	3.75	3.75

<i>Facilitation</i>	Step 0	Step 1	Step 2	Step 3	Step 4
Acceptability	-	5	4.5	4.5	4.5
Appropriateness	-	5	5	4	4
Feasibility	-	4	3.75	3.75	3.87

N=11

N = 17

N = 25

Longitudinal facilitation skills

- Most often used skill: data visualization, communicating data
- When asked, 59 of 89 assessments report use of facilitation skills
 - *Of those who say no, 19 report using specific skills when probed about them*
- 21 times individuals have reported using PDSA cycles
- 54 times individuals report using team building techniques
- 51 individuals report using specific communication/conflict skills
- 26 times individuals reporting doing formal work with data visualization/presentation
- People describe thinking about planning meetings, building commitment, and delivering content in tailored fashion

Lessons Learned

- Value of 'icebreakers'
- Facilitation training can help everyone, even those who perceive themselves to already have advanced skills
- Virtual facilitation is feasible, helpful
- These workshops could be improved, could be tailored to skills or other interventions
- People use skills over time, drawing heavily on communication and data presentation skills

Next Steps

- What are other spaces where this kind of implementation strategy could work (or is working already)?
- How does this link to patient outcomes and patient data?
- Are there other ways to deliver the content that are less burdensome (increasing acceptability and feasibility)?