September 28, 2023

IQIC 201 Session 1

Agenda:
- Reflect on IQIC 101
- Purpose and goals of IQIC 201
- Review RedCAP survey
- Wrap-up

The Objective of this Cohort

To locally adapt antimicrobial stewardship strategies and optimize patient care

Reflecting on IQIC 101

What have we accomplished?

- One year of case submissions
  - Allowed us to identify opportunities to improve
  - Establish a baseline for further comparisons

- Learning - quality improvement and stewardship ASB

- Work surrounding goals – gathered information, set, implemented, and refined
  - Vary and are institution specific

- Established a community!

Wins from 101

Distributed education and references to staff

Created provider peer comparison reports

Nursing questioning utility of unnecessary urine cultures and need for abx

Hospitalist calling out ASB in assessments and plans

Created urinary tract infection order set to guide treatment

Surgeons removed pre-op testing on asymptomatic patients (ie. Ortho)

Added "antibiotic time out" to interdisciplinary rounds

Identified institution specific opportunities to intervene
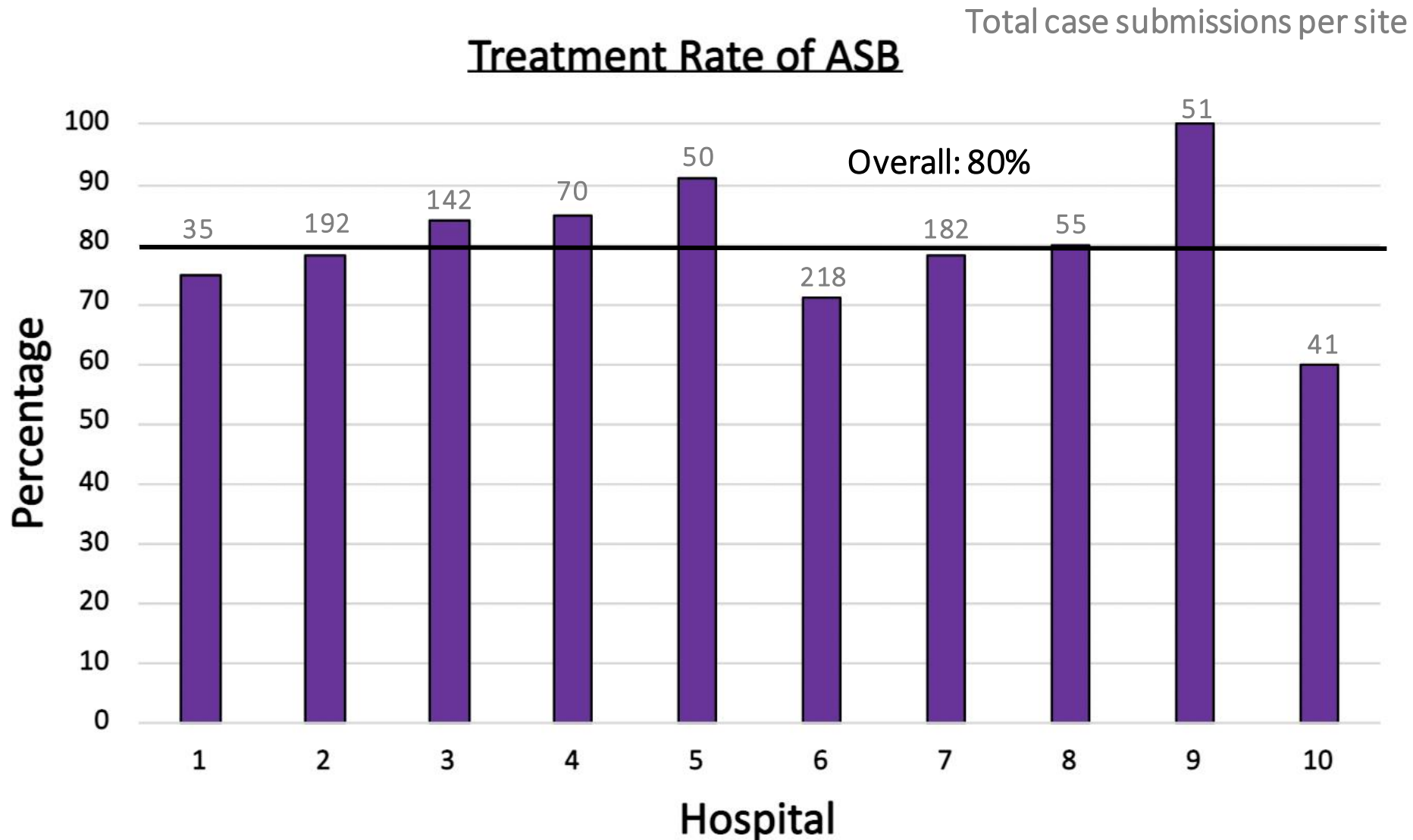
Found allies!

Purpose of IQIC 201

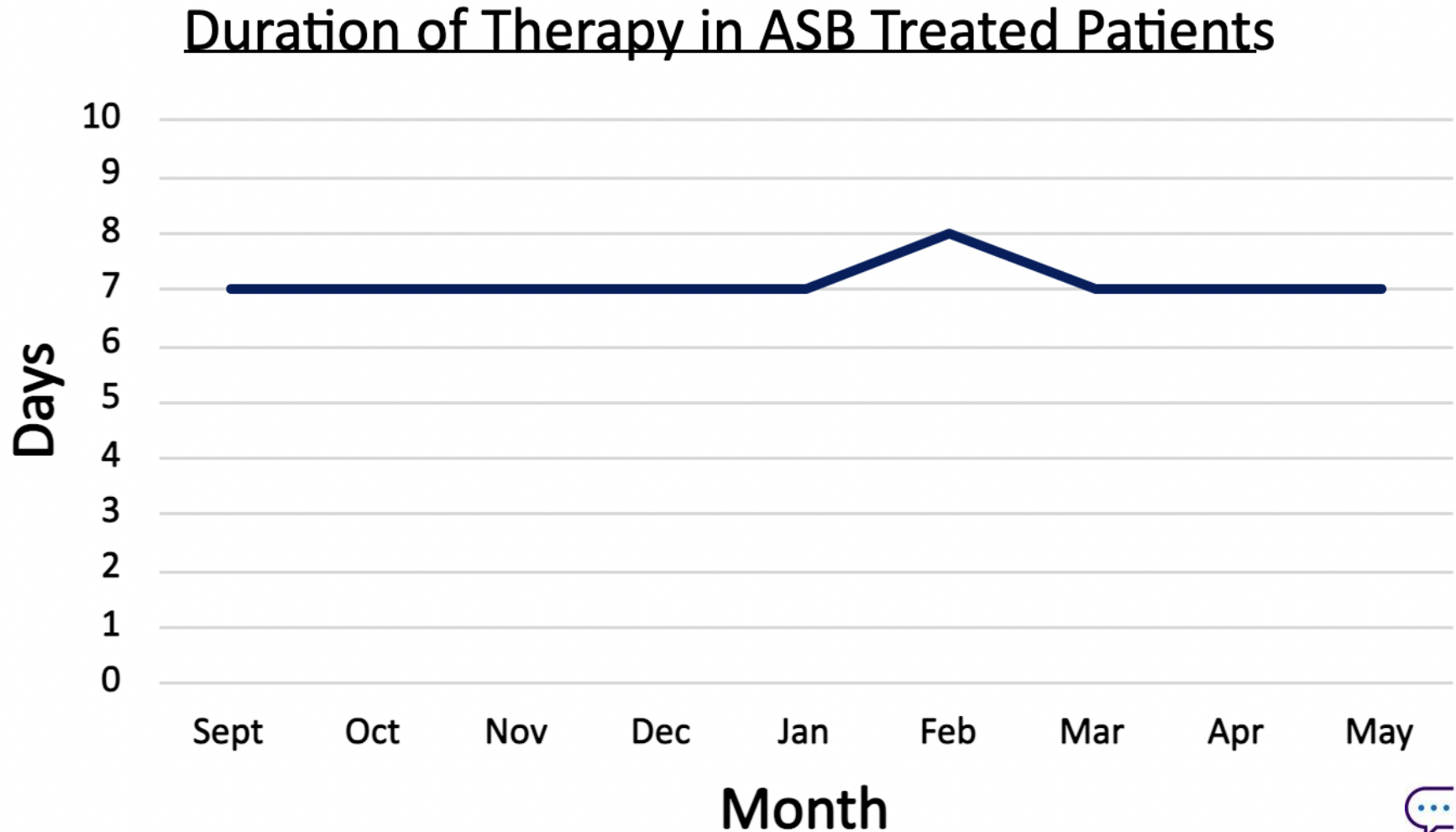# Why continue with a focus on ASB?

1) **Identified there is room for improvement in our cohort**

High Treatment Rate of ASB at your Sites

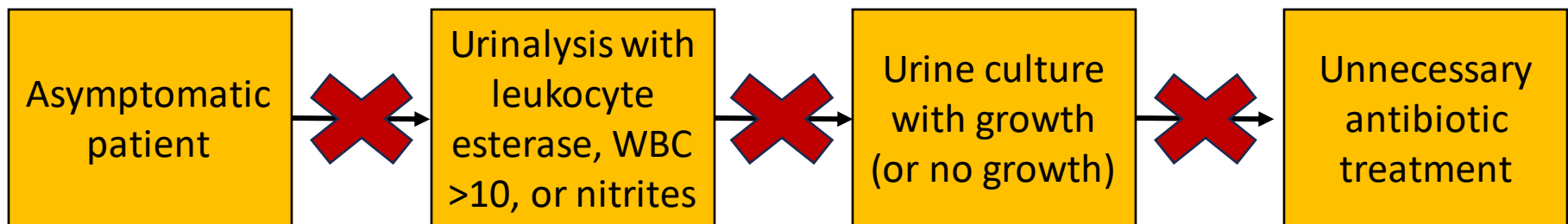# Long Median Duration of Therapy in Treated ASB Patients Overtime

Duration of Therapy in ASB Treated Patients

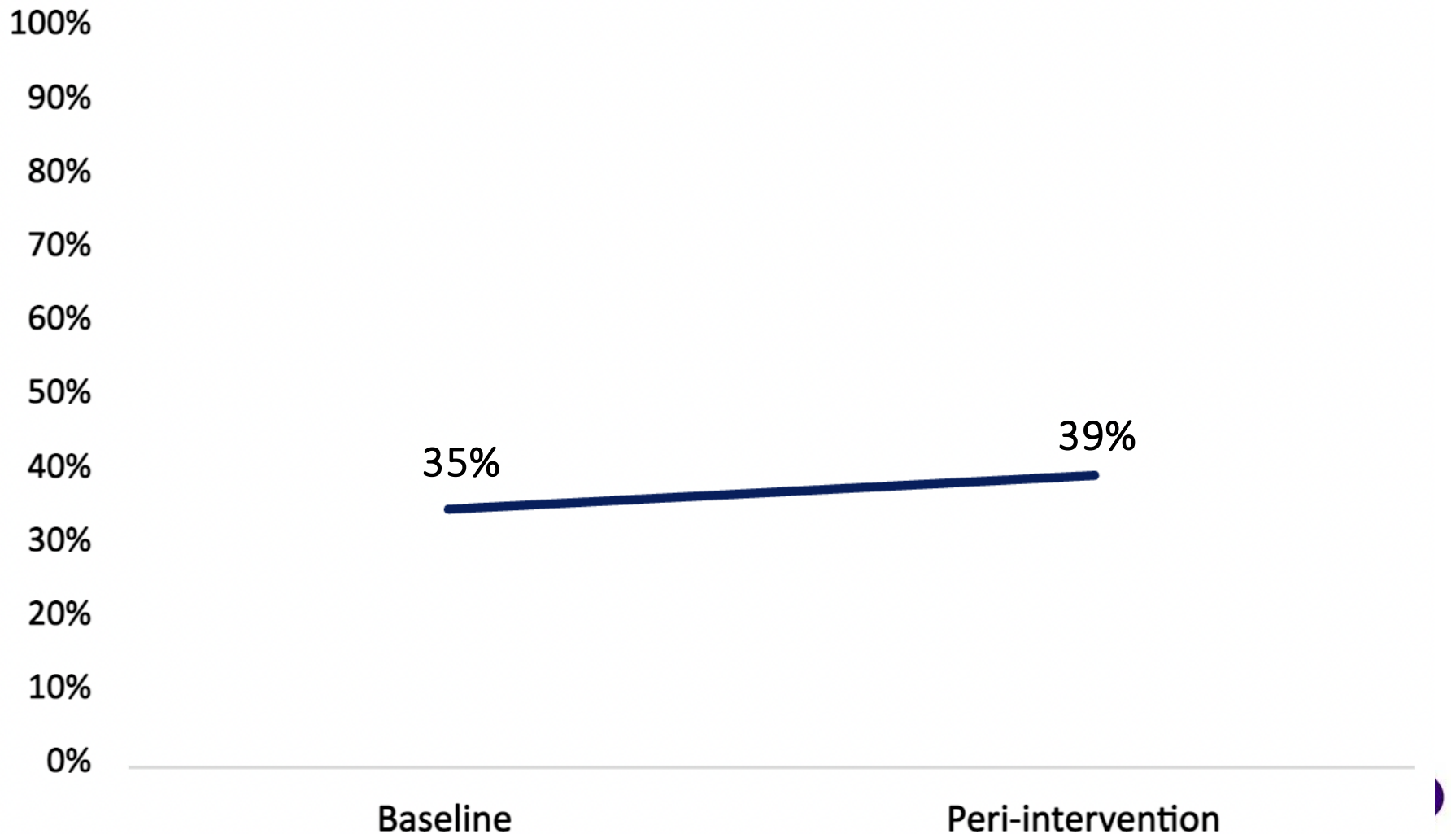# Outcome: percentage of patients treated for UTI who actually had ASB, overtime

- Upcoming NQF endorsed!

- **Goal**: lower is better

- Why use?
  - You can lower this number by either reducing unnecessary urine cultures (**diagnostic stewardship**) or reducing antibiotic treatment when unnecessary cultures are obtained (**antibiotic stewardship**)

$$\frac{\text{Number of patients treated for ASB}}{\text{Number of patients treated for UTI/ASB}}$$

| Asymptomatic patient | ❌→ | Urinalysis with leukocyte esterase, WBC >10, or nitrites | ❌→ | Urine culture with growth (or no growth) | ❌→ | Unnecessary antibiotic treatment |

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Metric: https://mi-hms.org/inappropriate-diagnosis-urinary-tract-infection-uti-hospitalized-medical-patients

Outcome: percentage of patients treated for UTI who actually had ASB, overtime

Baseline and Final IQIC 101 Survey Results
Overall Knowledge of ASB

Baseline: 9/29/22, n=15
Final: 8/24/23, n=11
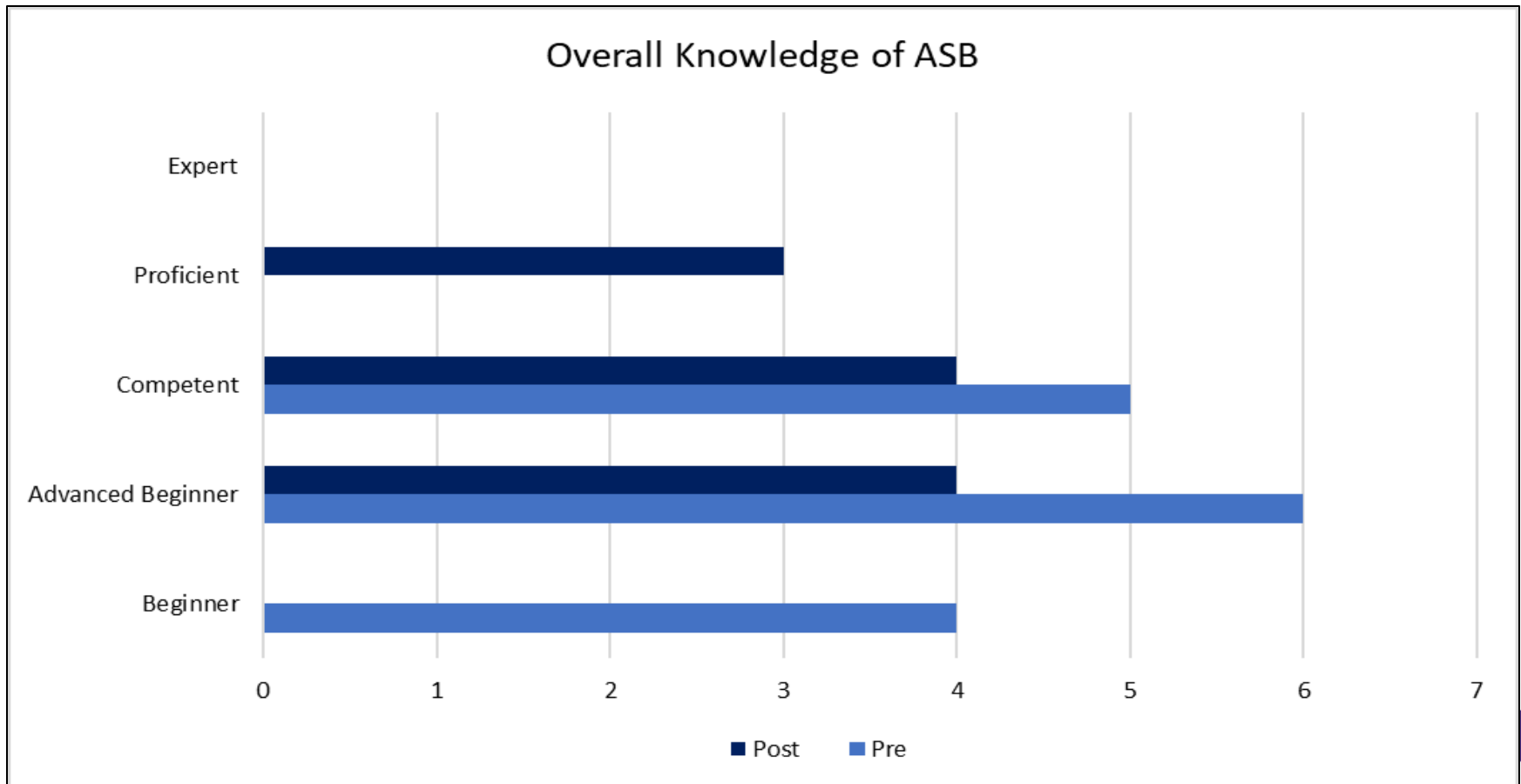
Baseline and Final IQIC 101 Survey Results
Overall Knowledge of QI

Baseline: 9/29/22, n=15
Final: 8/24/23, n=11
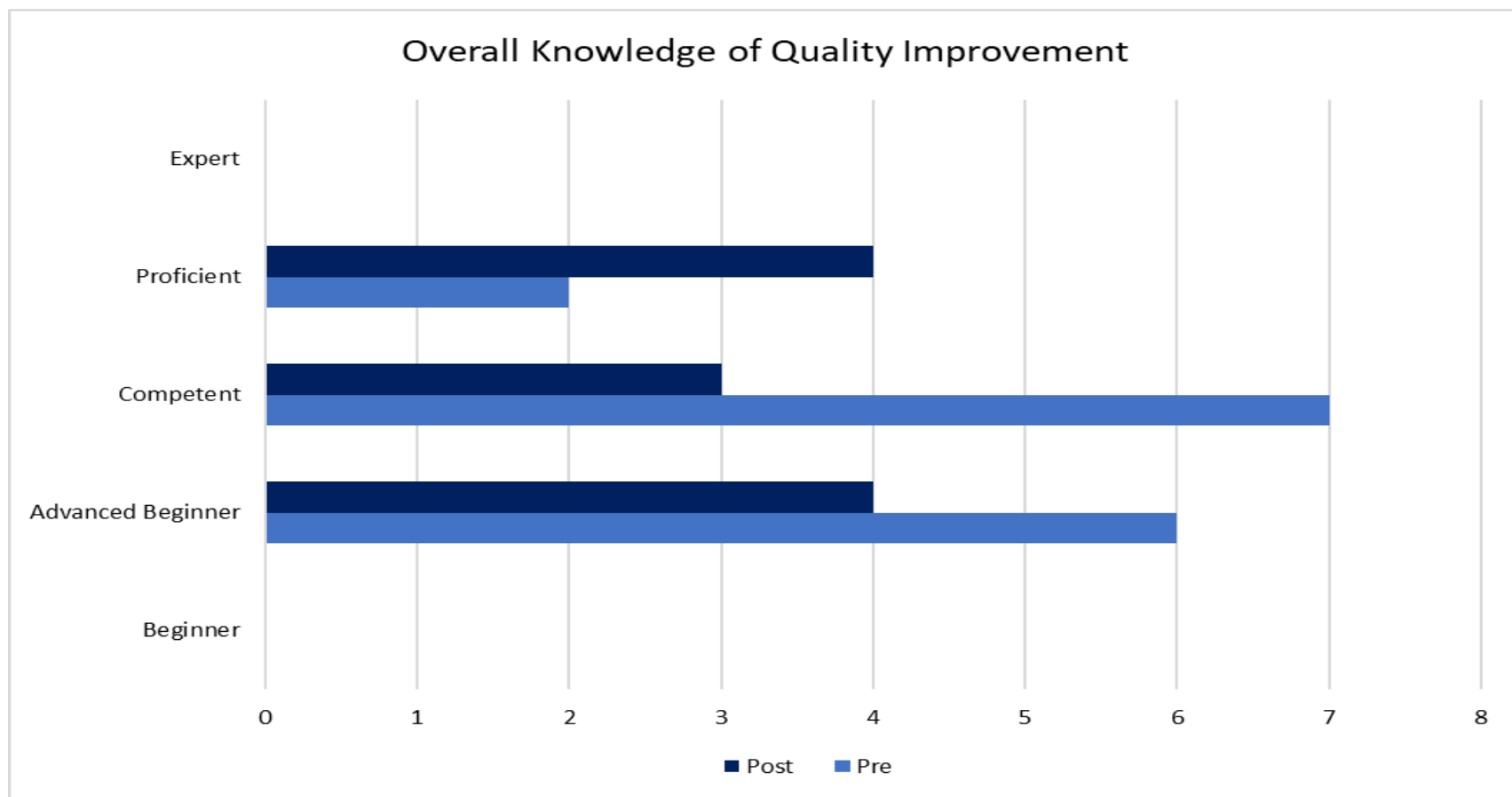
Overall Knowledge of Quality Improvement

Why continue with a focus on ASB?

1) Identified there is room for improvement in our cohort

2) **Recognize that change takes time**

Recognize that change takes time

Outcome: percentage of patients treated for a UTI who actually had ASB, over time

45%
40%
35%
30%
25%
20%
15%
10%
5%
0%

37% relative decrease
p<0.0001

28.7% 26.3% 28.2% 26.1% 22.7% 22.6% 22.8% 21.8% 20.0% 17.1% 18.1%

Q3 2017 Q4 2017 Q1 2018 Q2 2018 Q3 2018 Q4 2018 Q1 2019 Q2 2019 Q3 2019 Q4 2019 Q1 2020
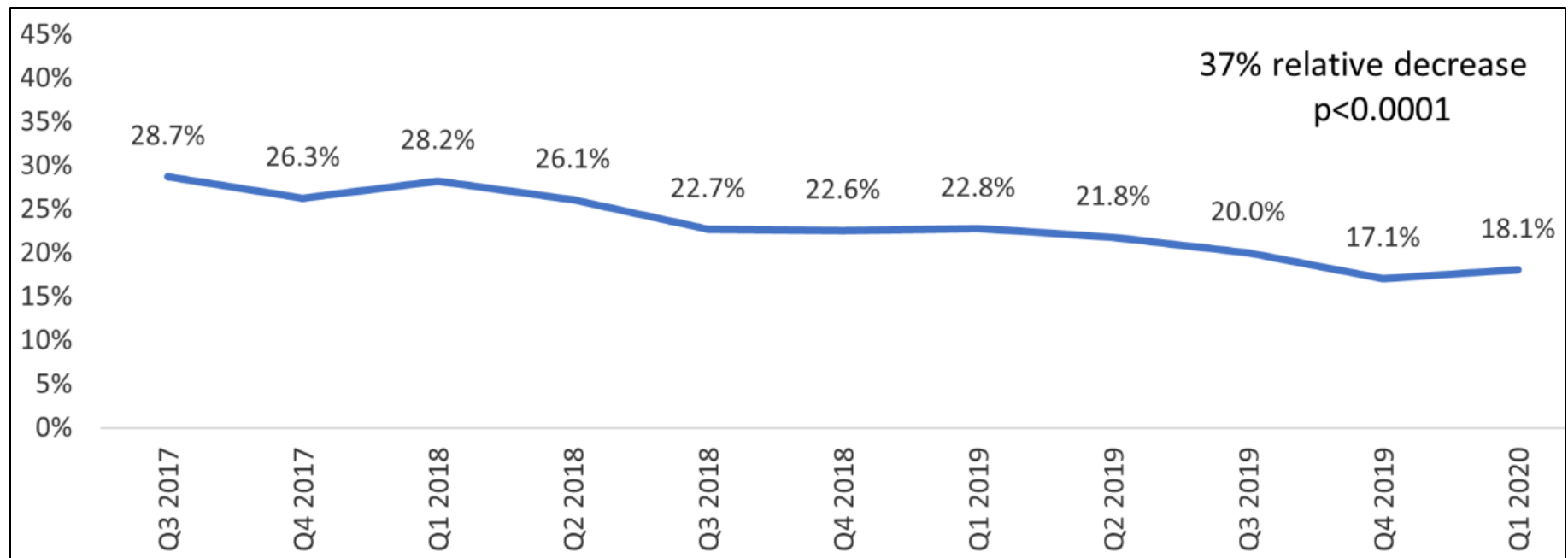
Slide credit: Valerie Vaughn

Why continue with a focus on ASB?

1) Identified there is room for improvement in our cohort

2) Recognize that change takes time

3) **Just now scratching the surface of quality improvement and stewarding ASB**
   - **Antimicrobial and diagnostic stewardship interventions**
   - **Challenging populations**
   - **How can we maintain or support this work over time?**

Goals and Deliverables of IQIC 201

Goals and deliverables

Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug

Attend 12 monthly didactic sessions

1	2	3	4	5	6	7	8	9	10	11	12

Amazing Lineup for Monthly Didactics!

Session Topics
☐ Antimicrobial and diagnostic stewardship interventions for ASB
☐ Challenging populations
☐ Immunocompromised
☐ CA-ASB
☐ Altered mental status changes
☐ Targeting different clinicians in stewardship
☐ Sustainability

Speakers
• Chloe Bryson-Cahn, MD
• Jeannie Chan, PharmD
• Whitney Hartlage, PharmD
• Zahra Kassamali Escobar, PharmD
• Hannah Imlay, MD
• Valerie Vaughn, MD
• Emily Spivak, MD
• Prior IQIC participants
• YOU ALL!

Goals and deliverables

	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug

Attend 12 monthly didactic sessions	1	2	3	4	5	6	7	8	9	10	11	12
Attend 3 coaching sessions		1			2			3				

One-on-one sessions

Frequency	When?	How to schedule?
Session 1: Oct-Dec **Session 2**: Jan-Mar **Session 3**: Apr-Jun	Thursdays, 9-10am PST	https://calendly.com/tasp/asb-201-check-in

OR

Uwcsim.org → IQIC resources → ASB 201 2023-2024

Goals and deliverables

	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug
Attend 12 monthly didactic sessions	1	2	3	4	5	6	7	8	9	10	11	12
Attend 3 coaching sessions		1			2			3				
Set SMART goals	Intervention											

SMART goals and PDSAs are a __Process__

Building knowledge with PDSA Tests

Goals and deliverables

	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug

Attend 12 monthly didactic sessions

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

Attend 3 coaching sessions

| 1 | 2 | 3 |

Set SMART goals

Intervention

Collect data (on rate of ASB and prescribing practices for ASB)
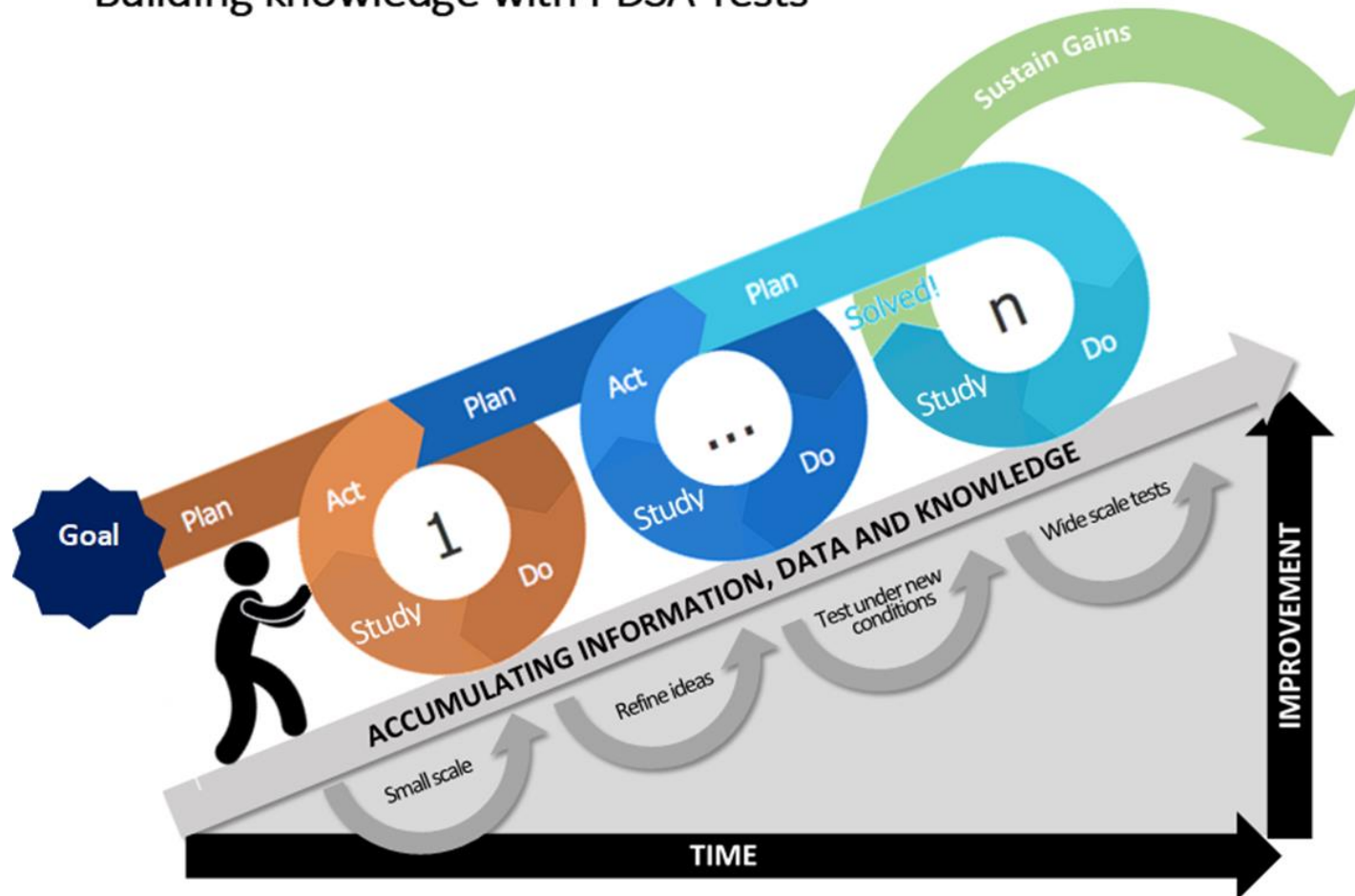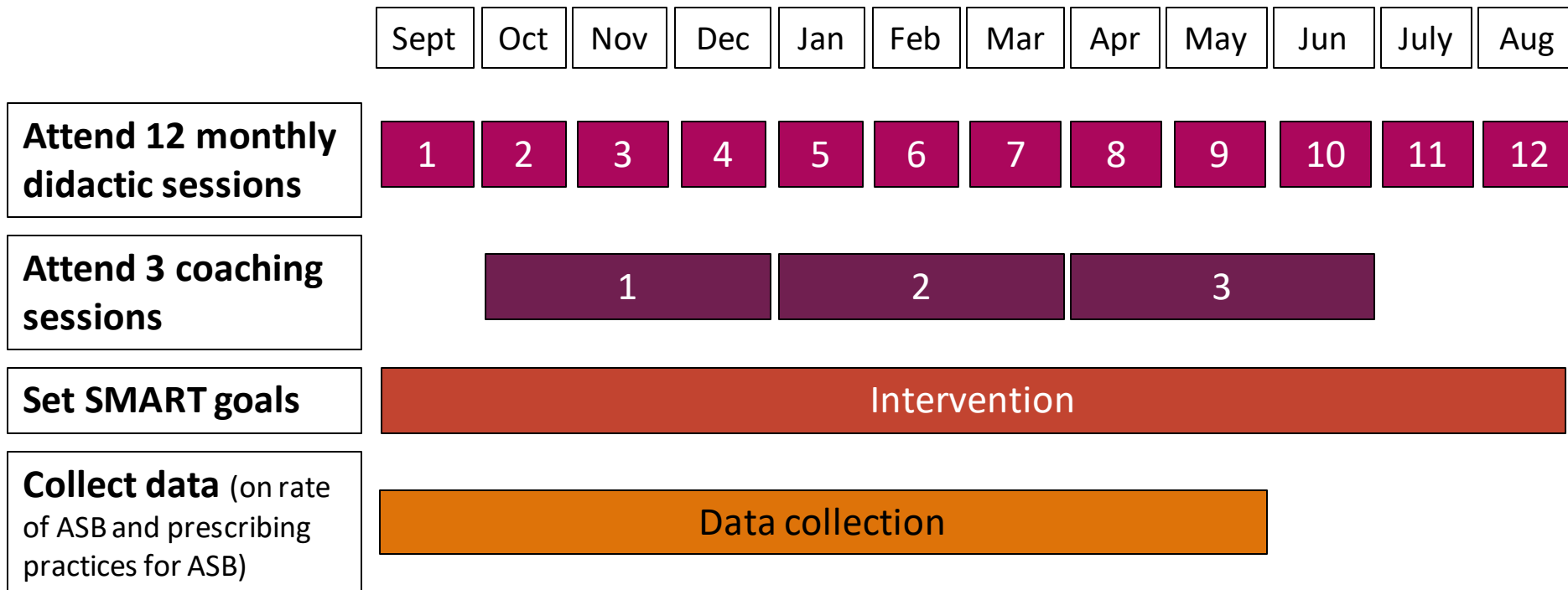
Data collection

Data Collection Goals

- Highlight the inappropriate diagnosis and prescribing of antimicrobials for non-urinary tract infections (UTIs)

| Asymptomatic patient | → | Urinalysis with leukocyte esterase, WBC >10, or nitrites | → | Urine culture with growth (or no growth) | → | Unnecessary antibiotic treatment |
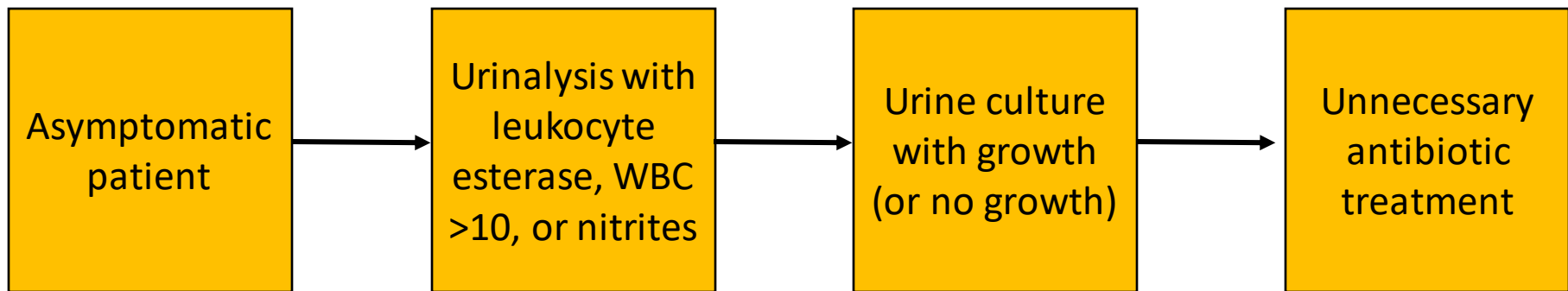
Data Phase	Case Goal	Progress Goal	Start Date	Last Submission Date
Intervention	>50 cases	1-2 cases/week **or** 6 cases/month	Now	5/31/2024

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What data do I collect?

SAME

- Urine culture data to identify patient cases

- Submit cases into data collection survey
  - Hospitalization information
  - Demographics
  - Signs and Symptoms of UTI
  - Urine culture data
  - SIRS criteria and/or organ dysfunction
  - Antibiotic selection and duration

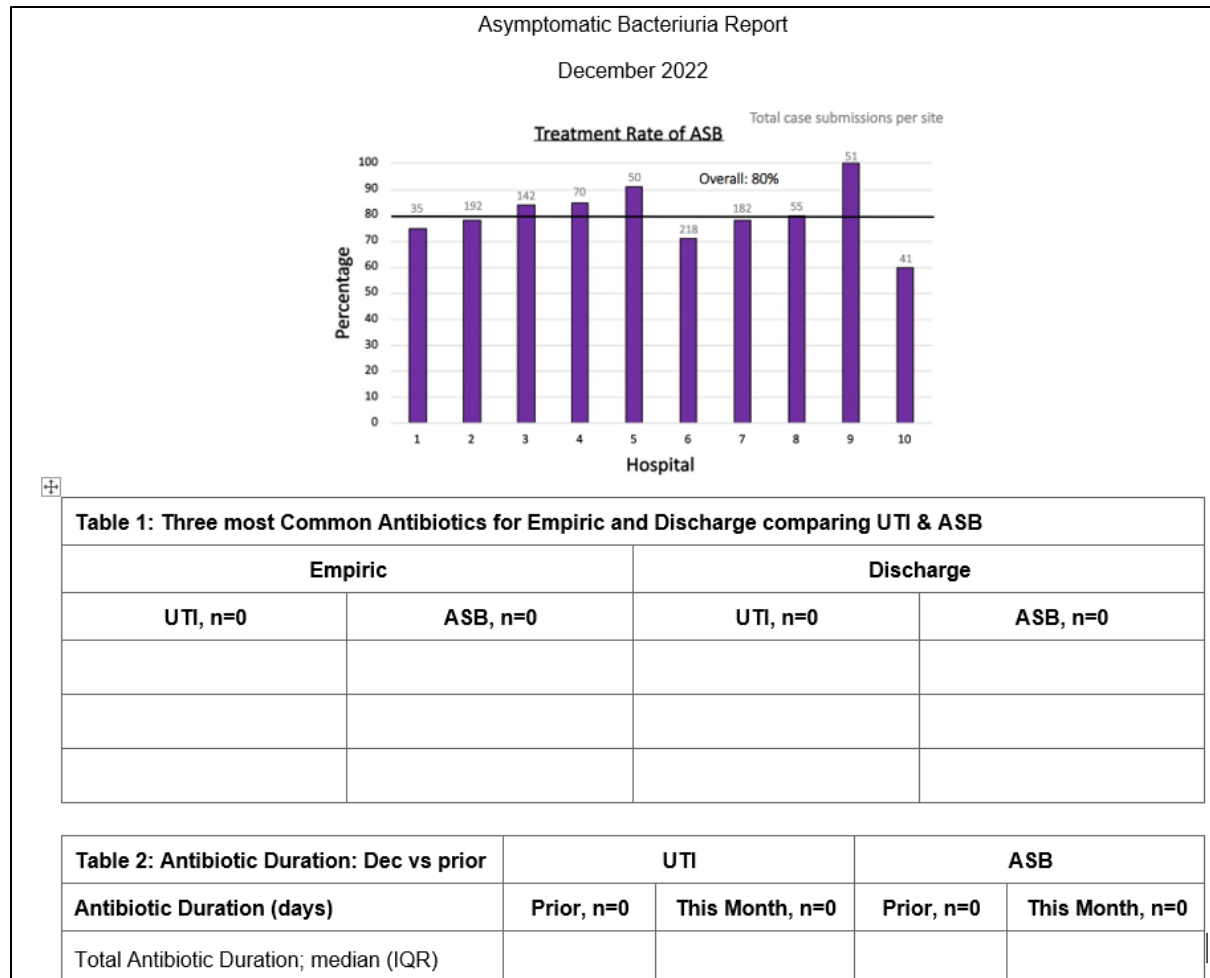## Changes to data collection form

- Evaluating provider name

- Evaluating provider type and affiliation with hospital

- Other features of presentation

- Sepsis evaluation

- Simplified antibiotic selection

REDCap link: https://redcap.iths.org/surveys/?s=9M NEE8F444EMCD3K

OR Link from website!

Reports will be returned **<u>quarterly</u>**!

Asymptomatic Bacteriuria Report

December 2022

Total case submissions per site

Treatment Rate of ASB

Overall: 80%

Table 1: Three most Common Antibiotics for Empiric and Discharge comparing UTI & ASB			
Empiric		**Discharge**	
UTI, n=0	**ASB, n=0**	**UTI, n=0**	**ASB, n=0**

Table 2: Antibiotic Duration: Dec vs prior	UTI		ASB	
Antibiotic Duration (days)	**Prior, n=0**	**This Month, n=0**	**Prior, n=0**	**This Month, n=0**
Total Antibiotic Duration; median (IQR)				

Anything else you would like to see on report?

Goals and deliverables

	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug

Attend 12 monthly didactic sessions

1	2	3	4	5	6	7	8	9	10	11	12

Attend 3 coaching sessions

1	2	3

SMART goals

Intervention

Collect data (on rate of ASB and prescribing practices for ASB)

Data collection

Record process in PDSA cycle

Throughout the year on website

Present final presentation

1
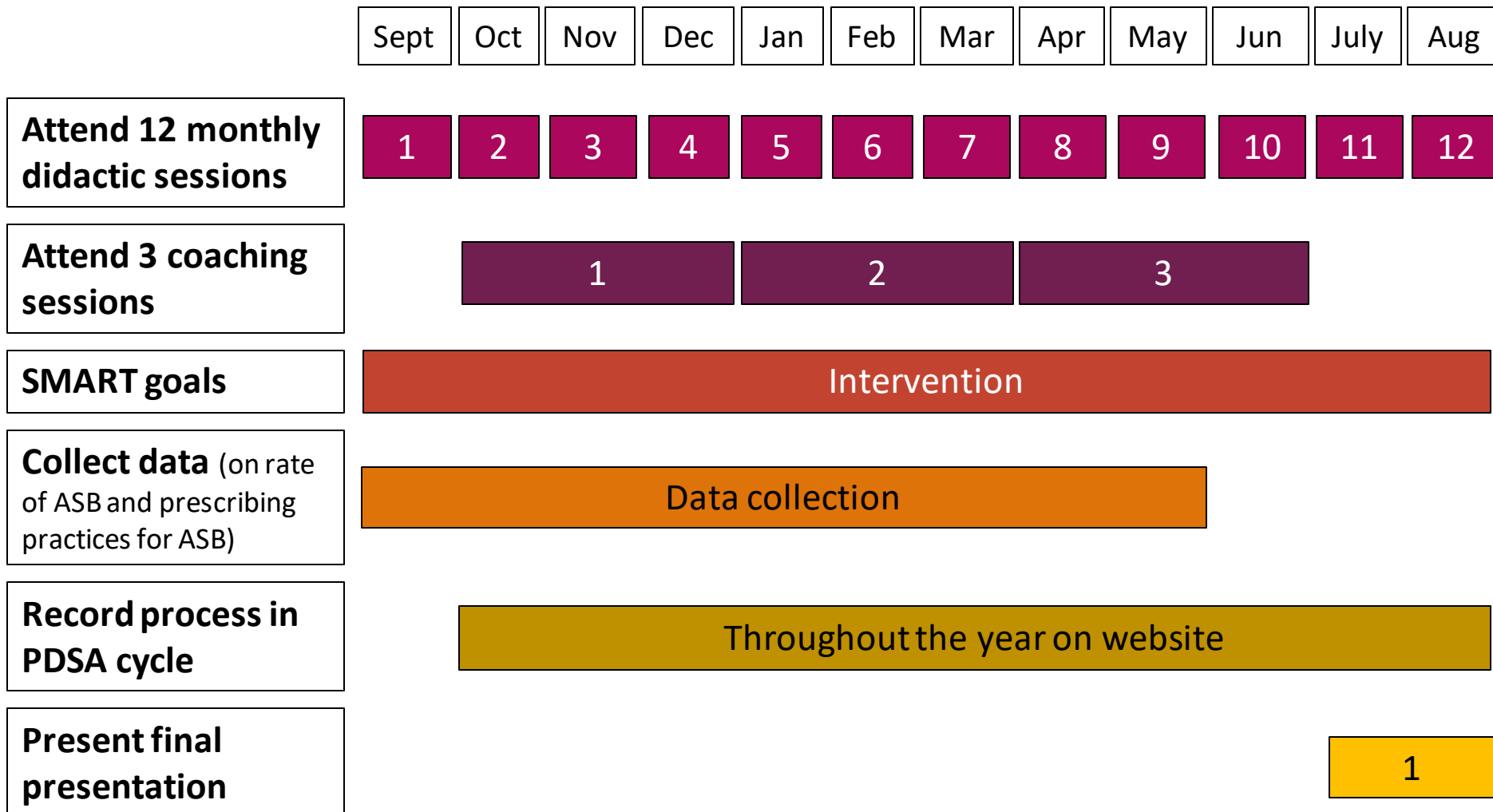
Next Steps

Homework

Attend 3 check-in sessions

❑ <u>To-do</u>: Schedule quarter 1 check-in (Oct-Dec) on website or using link

Data collection

❑ <u>To-do</u>: submit cases; goal is at least 1-2 cases/week **or** 6 cases/month

SMART goal

❑ <u>To-do</u>: what is your next goal? Finalize and start implementing! Will discuss progress in one-on-one sessions.

Record process in PDSA cycle on website

❑ Continue to track progress throughout the year

The People Person's Paper People

On stewarding ASB:

"Is it easy? No. Do I like it? Eh, I don't know. But do I do it? Yeah, I do."

- Michael Scott

Next Session: Thursday, October 26

CSIM

Thank you!

Questions?

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