

April 25, 2024 **Sustainability**

Zahra Kassamali Escobar, PharmD

sus·tain·a·ble

/səˈstānəb(ə)l/
adjective

1. able to be maintained at a certain rate or level.



Case in point:

IQIC 101 Smart Goal:

We will improve our appropriate treatment of UTI by 10% (baseline = 68%)

Intervention: Education!

Results after IQIC 101 & 201

 From June 2020 - January 2023 appropriate treatment rate = 65%; consistent despite provider specific education

 If 3 highest prescribing providers removed from data set, appropriate treatment rate = 78%

5/25: PDSA Cycle

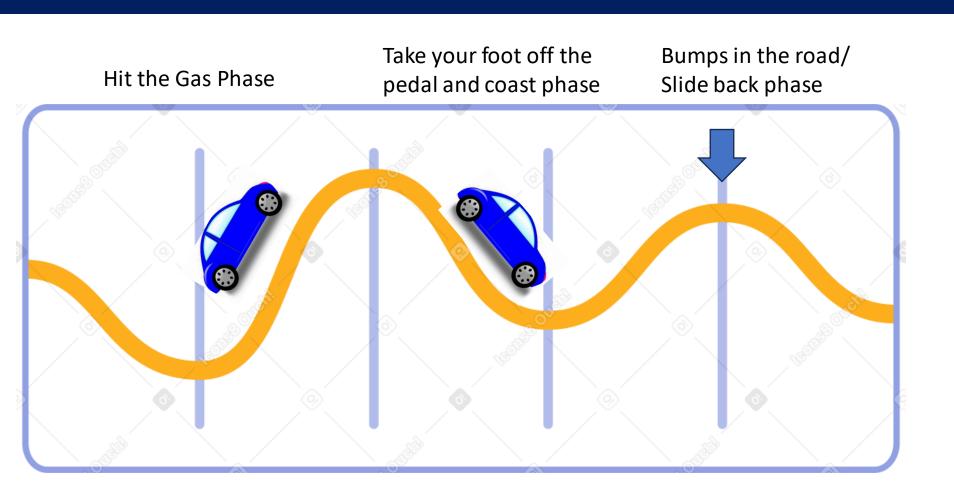


Progress on PDSA Cycle 1

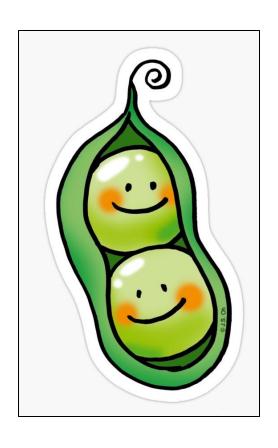
Plan Do Study Act

- Will send out Dear Doctor letter ED director will hand out and have discussion
 - Look at changes over time
 - Providers with high volumes of cases show more reliable trends
 - Send letters for providers that improved

The Road to Change



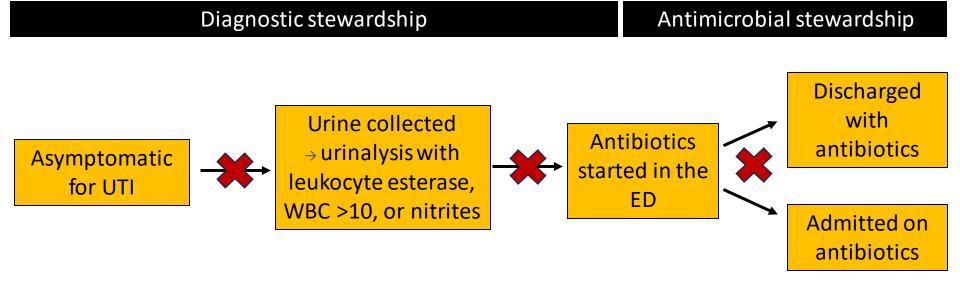
Improving antimicrobial use includes <u>both</u> antimicrobial and diagnostic stewardship



Antimicrobial stewardship interventions Diagnostic stewardship interventions Valerie Vaughn, MD Nov 30



Where are stewardship opportunities for UTI?





Measuring UTI stewardship



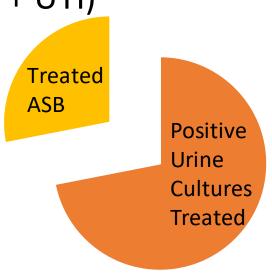
Rate of inappropriate diagnosis of UTI



patients treated with abx for ASB

of patients treated with positive urine culture (ASB + UTI)

- Rate can be lowered by:
 - reducing unnecessary urine cultures (diagnostic stewardship) or
 - reducing antibiotic treatment when unnecessary cultures are obtained (antibiotic stewardship).

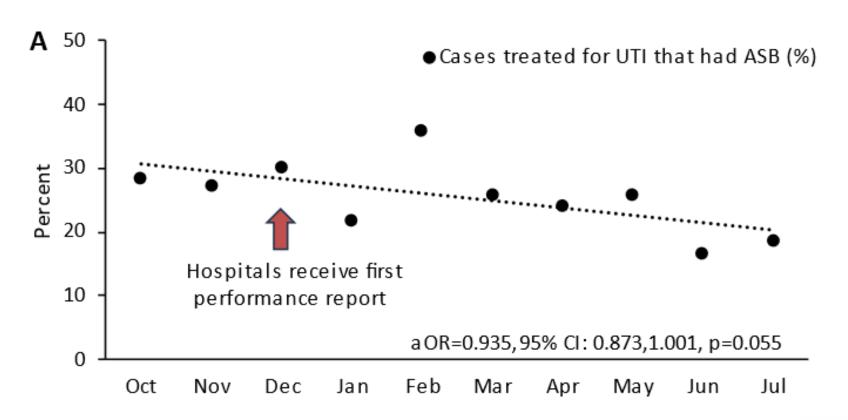






2nd year of IQIC Project (2022-2023)

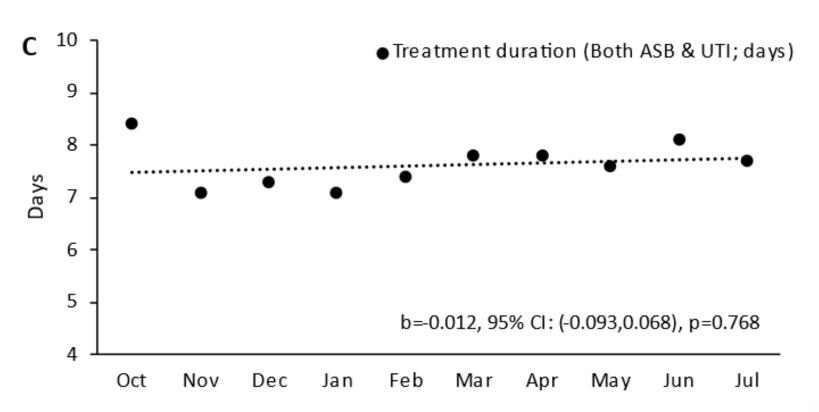
Rate of inappropriate diagnosis of UTI





Change is hard to do

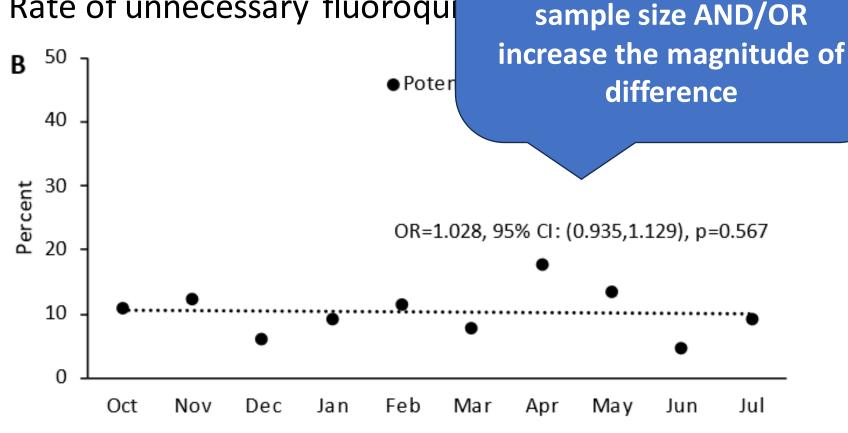
Duration of Treatment, days (ASB & UTI)





Change is hard to de

Rate of unnecessary fluoroqui





In order to demonstrate

statistically significant

change, increase your

The Specifics: Sustain your Gain



How can we steward admitted patients with ASB on antibiotics?

Prospective audit and feedback*

- Shortening duration of therapy
 - Stop following dose(s)
 - If clinician prefers to continue, decrease to 3 days¹

- Antibiotic selection
 - Non-FQ agent
 - Transition from IV to PO



How can we sustain stewardship of admitted patients with ASB on antibiotics?





Keep calling



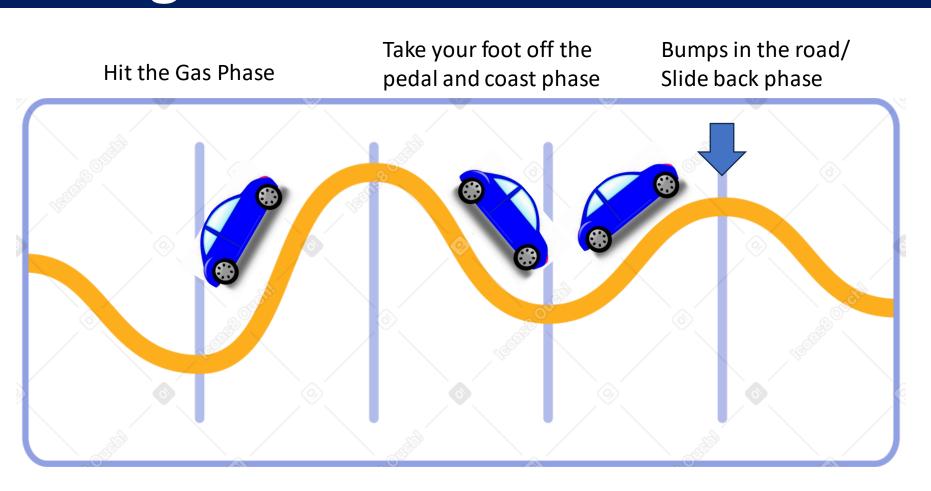
Keep suggesting shorter durations



Keep switching IV to PO



Shift out of neutral, & apply a little gas



Recognize that antimicrobial stewardship in the emergency department is challenging

- Challenges
 - Everyone is EDs are busy
 - Diagnostic uncertainty
 - Lack of stewardship representation
 - Delay in urine culture results



- Focus on changing behavior and future prescribing practices
 - Most effective and sustainable changes = successful integration of <u>cultural</u>, <u>regulatory</u>, <u>and individual change</u>





What influences clinician behavior?

Data (usually) keep sharing it

Ease of use make the right the decision the easy one

• Peers (esp. Influential ones) make more friends

 Outcomes (the heart and the head) share the wins, stewardship moments & positive feedback



Influencing behavior: the MINDSPACE way Achieving sustainability

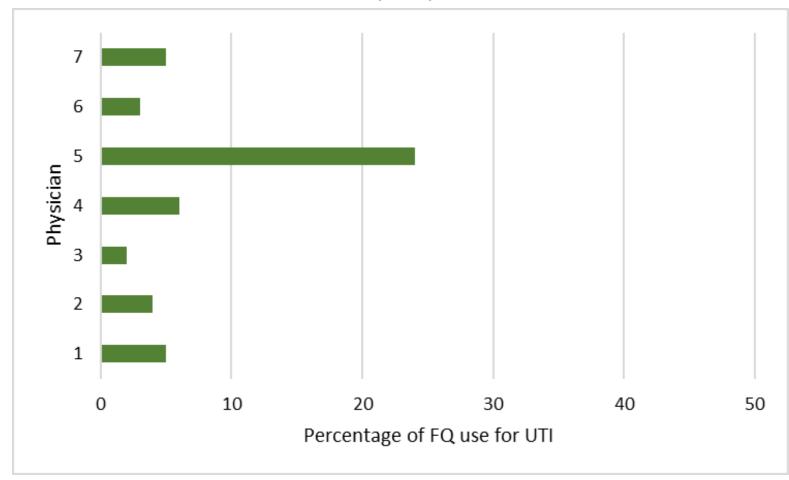
Messenger	We are heavily influenced by who communicates information
Incentives	Our responses to incentives are shaped by predictable mental shortcuts such as strongly avoiding losses
Norms	We are strongly influenced by what others do
Defaults	We 'go with the flow' of pre-set options
Salience	Our attention is drawn to what is novel and seems relevant to us
Priming	Our acts are influenced by sub-conscious cues
Affect	Our emotional associations can powerfully shape our actions
Commitments	We seek to be consistent with our public promises, and reciprocate acts
Ego	We act in ways that make us feel better about ourselves



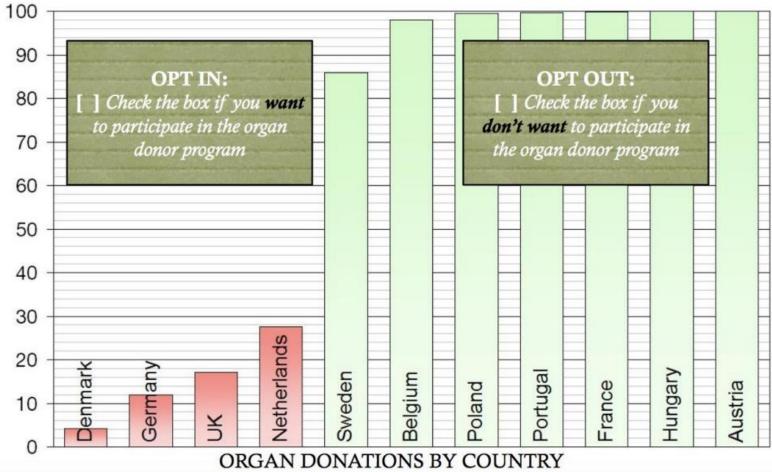
We tend to do what others around us are doing

Achieving sustainability: watch out for staff turnover and new practice

If the norm is desirable, let people know about it

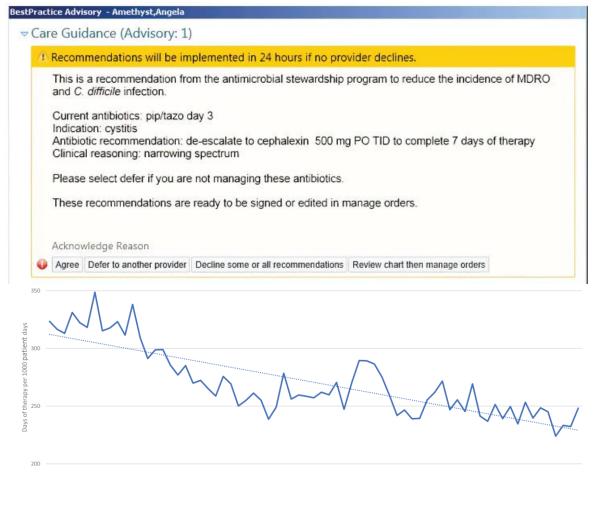


We 'go with the flow' of pre-set options





Opt-out approach decreases antimicrobial use



25% reduction in target antimicrobial use was achieved and sustained with the program.



Automatic EMR settings = Cruise Control (set it and forget it)

Take your foot off the Bumps in the road/ Hit the Gas Phase pedal and coast phase Slide back phase

Our emotional associations can powerfully shape our actions

Affect

- Stories and individuals
 - Misdiagnosis of UTI
 - Harm from unnecessary antibiotic use
- Maintaining gains = a success

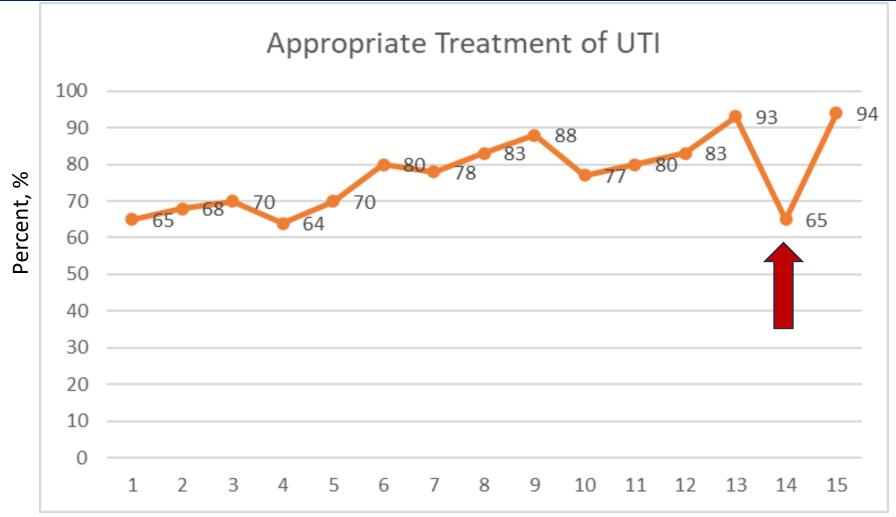
Keep a Cache of Cases

Call out good behavior when you see it

<Sandy's wall>



Sustainability and Anticipating the Bumps





Final thoughts



- You've made so many gains
- Culture change takes time & doesn't map on a graph
- Sustaining is a win make sure you celebrate a flat curve (i.e. share with leadership, share with meetings)
- Keep calm and carry on

