

The Model for Improvement and Experiential Exercise

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Jennifer Powell

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LEARNING OBJECTIVES

- Articulate the components of the Model for Improvement
- Understand how theory and prediction are critical to learning when conducting a PDSA cycle

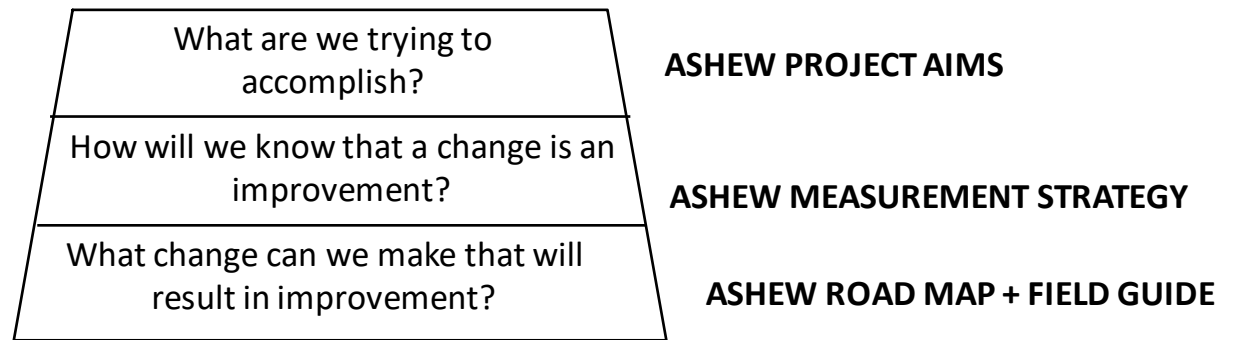


POLLING QUESTIONS

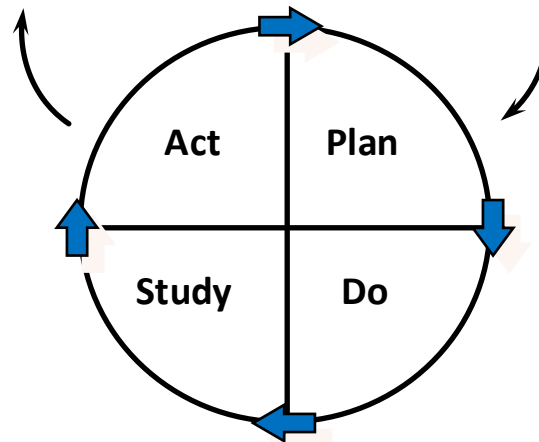
- Has your practice conducted quality improvement using PDSA cycles recently?
 - Yes, No, Don't Know
- Have you ever been a part of a team working on a PDSA cycle?
 - Yes, No, Don't Know



MODEL FOR IMPROVEMENT



For this session,
we will focus on
how to run PDSA
cycles



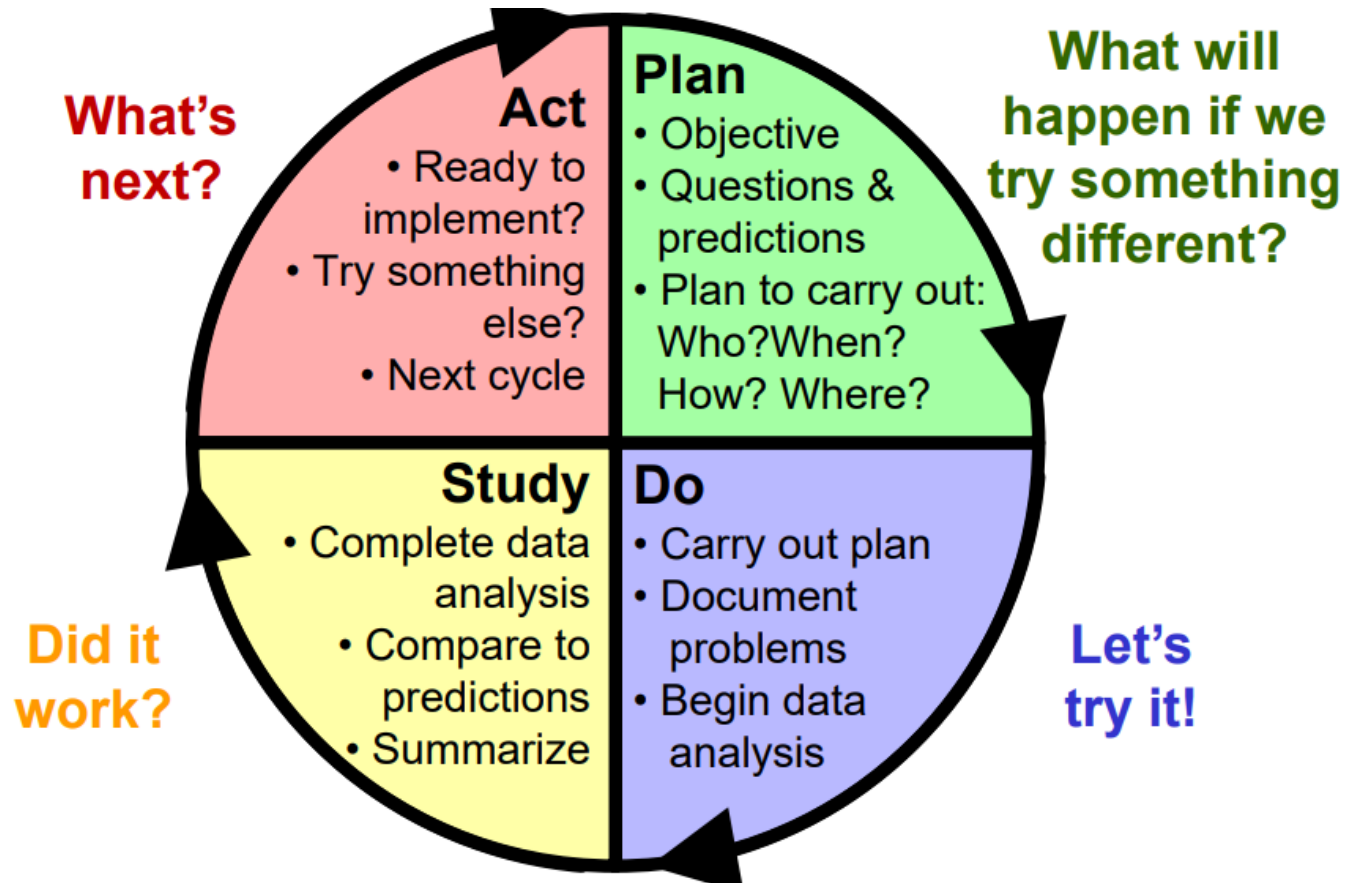
Langley, et al, *The Improvement Guide*, 2009

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THE PDSA CYCLE FOR LEARNING AND IMPROVEMENT



Source: Institute for Health Care Improvement,
Bob Lloyd et al, May 2017

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QI Experiential Exercise: IHI Coin Spin

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THE IHI COIN SPIN EXERCISE

- *AIM:* Spin a coin the longest amount of time



LEARNING TO RUN PDSA CYCLES BY SPINNING COINS

<https://www.youtube.com/embed/evVIMpzahc8>

Source: [IHI Quality Improvement Games: Learn How to Use PDSA Cycles by Spinning Coins](#)

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COIN EXERCISE

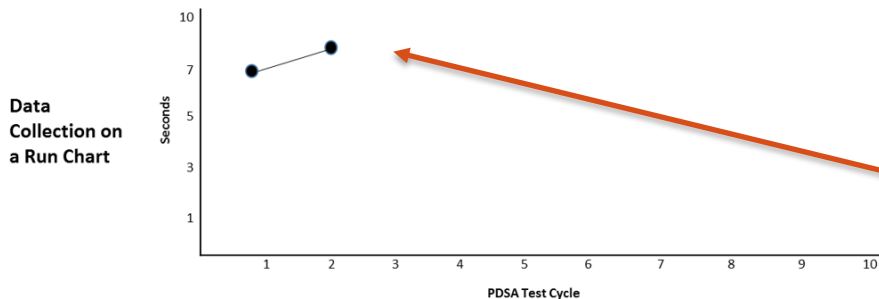
- **Identify Roles:**
 - **Spinner:** Have all coins, surface, and camera ready
 - **PDSA Scribe:** Capture the theory/prediction before each spin
 - **Run Chart Scribe:** Capture # of seconds on run chart and plot before moving to next
 - **Timekeeper:** start/stop stopwatch for each spin toss
- **A round is one coin, one spin**
- **Spin Rounds:** balance number of spin rounds with the focus on documenting theory and prediction and what happened



PDSA TRACKER & RUN CHART

ABC Pediatrics PDSA Tracker (Example):

#	Plan	Do	Study	Act	
#	What questions? Theories?	Prediction	What do you see? How Long was the spin?	How did what you see match prediction?	What's next: Adapt, Adopt, Abandon
1	Thickest coin spins longer	Nickel = 10 seconds	Started to wobble at 4 seconds. Time = 7	Three seconds short!	Abandon thickest coin theory. Test largest coin.
2	Larger coin will spin longer due to circumference	Quarter = 10 seconds	Started to lose spin fast. Time = 8	Two seconds short, an improvement! Larger size may be a factor.	Adapt: Use the quarter but test using a different surface



Run Chart Scribe:
Capture the time when the coin drops for each round

PDSA Scribe:
capture notes in the table

LET'S PLAY!

- Open and download the PDSA Tracker before you move to your team's breakout room
- You have been assigned to play the game with your practice team (or with chapter leaders if solo)



Move to Break Out Rooms

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LET'S HEAR FROM A FEW PRACTICE TEAMS

- How many spin (PDSA) rounds did you conduct?
- What was your longest spin, in seconds?
- What was your team's theory/prediction that led to a best practice/best spin?



IHI IMPROVEMENT ADVISORS COIN EXERCISE DEBRIEF

https://www.youtube.com/embed/CgYf_N3GvUM

Source: [Debrief - IHI Quality Improvement Games: Learn How to Use PDSA Cycles by Spinning Coins](#)

