



CENTER FOR  
STEWARDSHIP  
IN MEDICINE

# PDSA Cycle

## -Plan, Do, Study, Act

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IQIC ASB 101

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# QI is hard work!!



- **Can-do Attitude/Humility**

- Our health system is not perfect!
- We have room for **improvement**
- How do we make things **better**?
- How do we **tweak** things that leads to improvement?

- **Data is for Learning**

- Identify areas of improvement and prioritize intervention
- **We can't CHANGE what we do not MEASURE**

- **Statistics**

- It takes **17** years for research evidence to reach clinical practice!

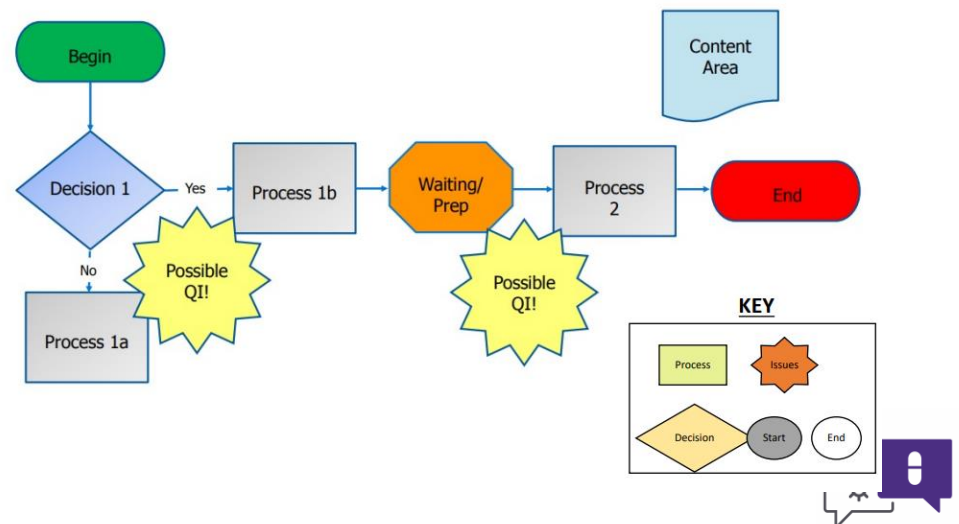


# QI Toolbox

## SMART



## Process Mapping



# PDSA Cycle – Mini experiments



[Plan-Do-Study-Act \(PDSA\): A Step-by-Step Approach to Improve Quality, Work-Life, and Equity | Equity, Diversity, and Inclusion | AMA STEPS Forward | AMA Ed Hub \(ama-assn.org\)](#)



# Plan – Identify and Propose

## Map the current state

- Process mapping

## Identify the problem and set goals

- Create a problem statement
- Set goals qualitatively and quantitatively
- Develop action plan
  - Define scope (where, when, timelines)
  - Identify resources and select the team (what, who, how)
  - Identify data variables to be collected

## What is my prediction?

- What results do I expect to see with this change?



# Do – Implement the plan



Carry out the action plan on a small scale



Collect data and track measures



Document problems and unexpected observations



# Study



Analyze data and compare to predicted results



Summarize and share data with other stakeholders



Develop a conclusion statement



# Act – Make decision



**Adopt:** Select changes to implement on a larger scale.



**Adapt:** Adjust the plan and try again.



**Abandon:** Discard the plan and try a different one.



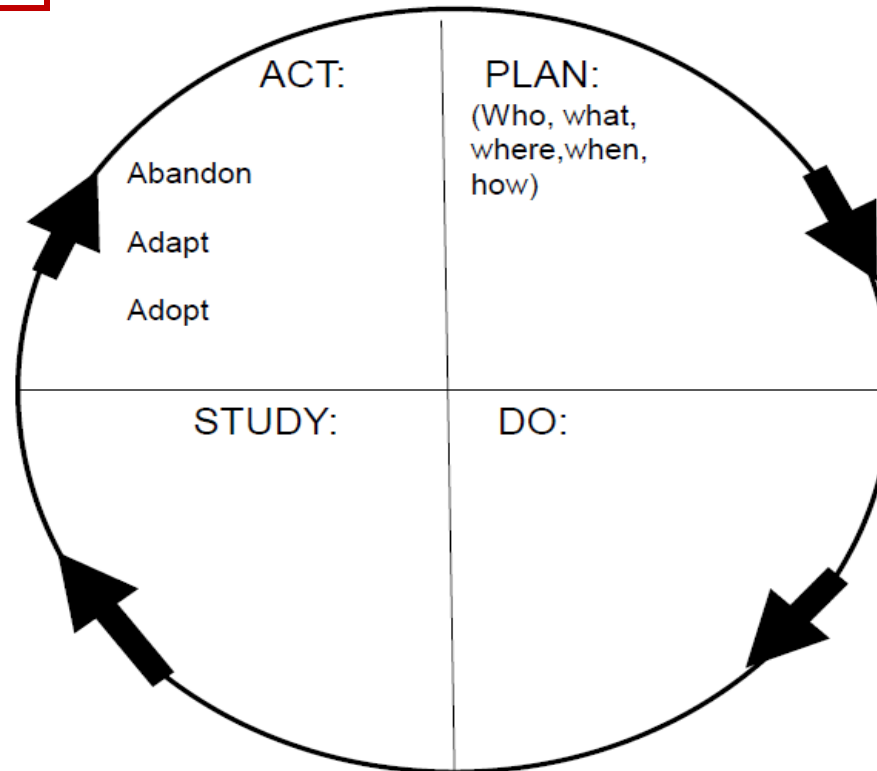


# What can we do by next Tues?

Problem:

Aim of this change:

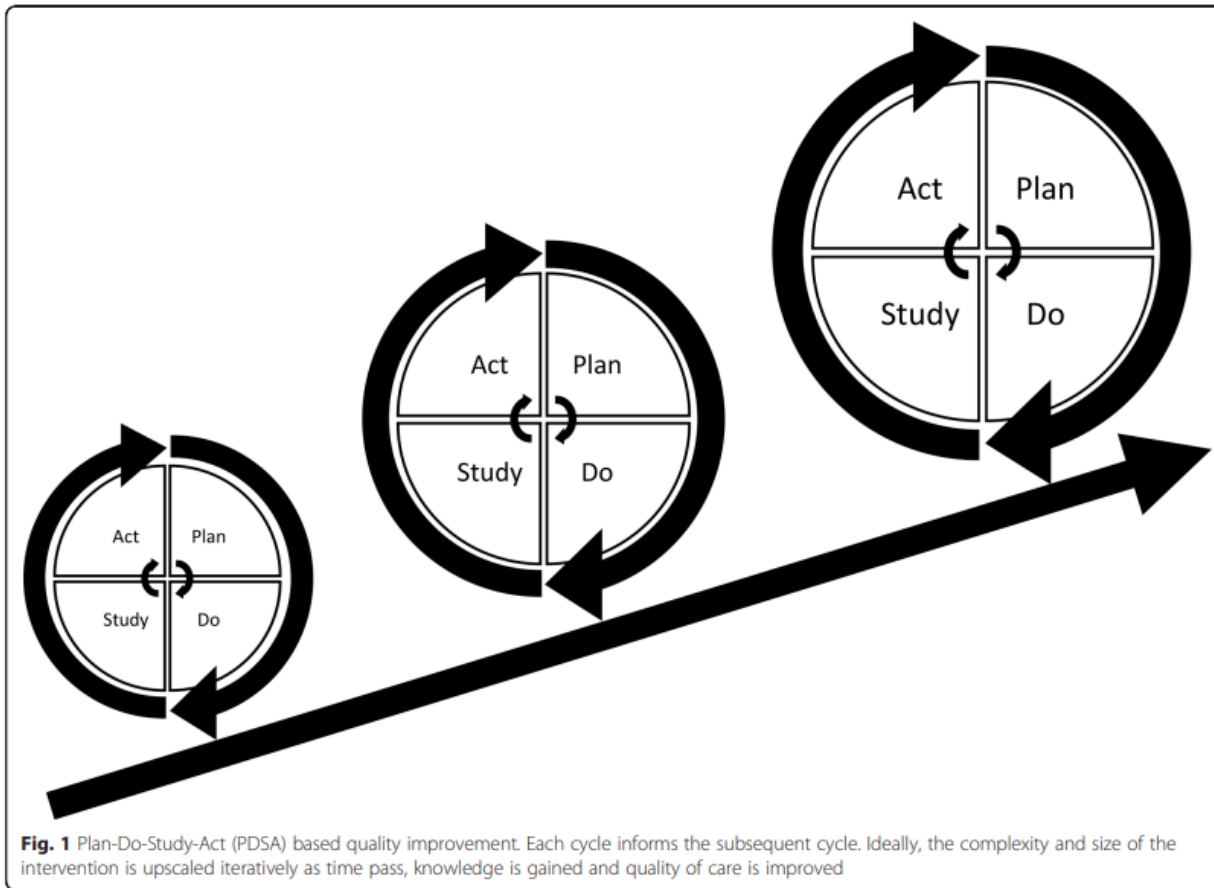
The Change:



Measurement

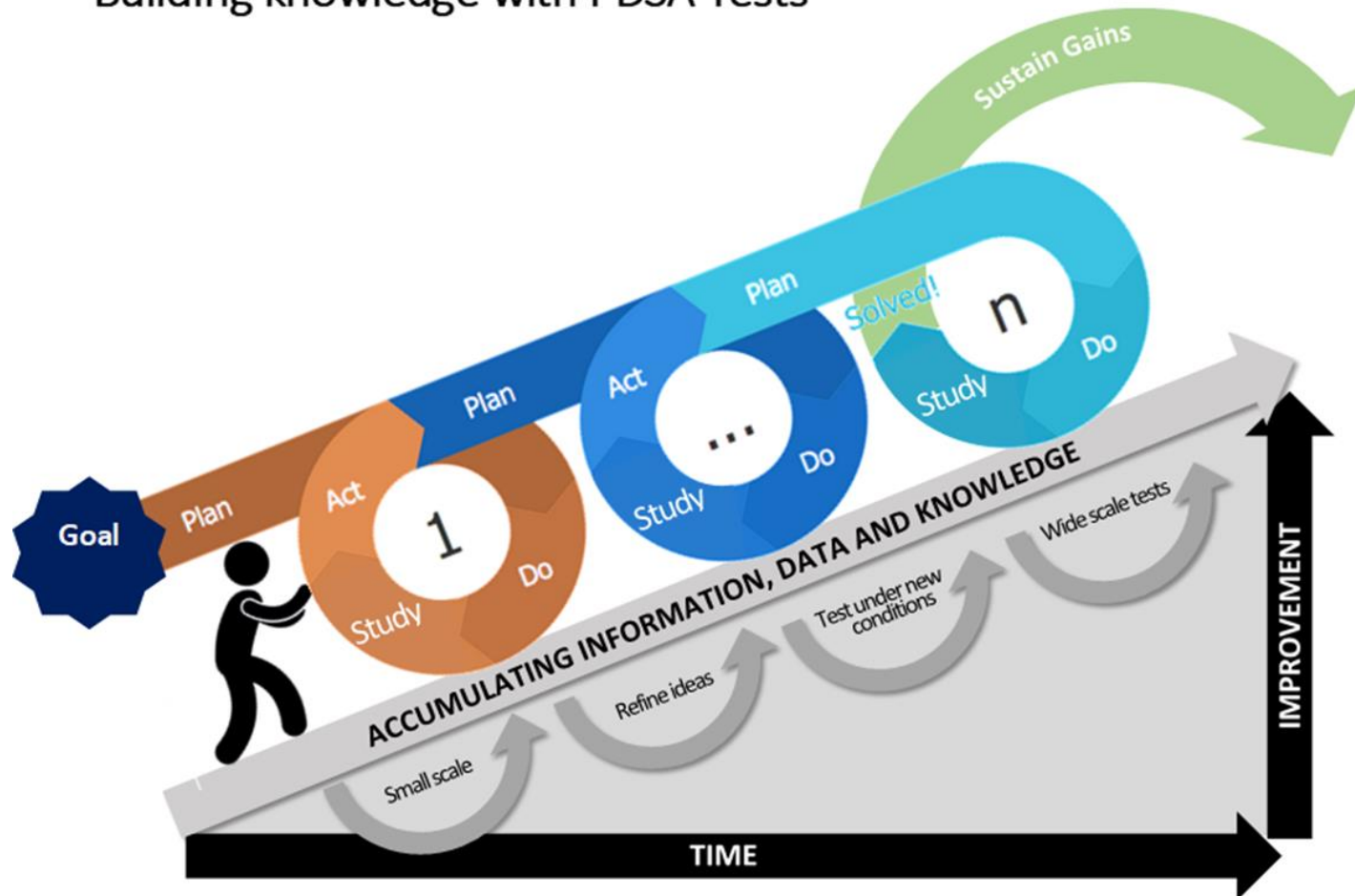
Prediction:

# PDSA – building knowledge



# Think Small – PDSAs are a Process

Building knowledge with PDSA Tests



# PDSA as part of QI

- Data is the catalyst for change
- PDSA cycle: test interventions, compare data, refine interventions and adapt
- Small change can inform progress and outcomes of interventions
- Data monitoring may be needed for sustained change to become standard of practice

