

Connecting Quality Management to Passion, Change and Advocacy

National Health Care for the Homeless
Conference 2016
Portland, Oregon



Coldspring Center For Social and Health Innovation

About us....



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A large, blue, rounded rectangular graphic that resembles a scroll or a piece of paper. It has a dark blue border and a dark blue shadow on the right side. The text 'Stay positive Informal Interactive' is written in white, sans-serif font, centered within the graphic.

Stay positive
Informal
Interactive

What We'll Cover Today

- Introductions
- Organizational Infrastructure
- Tools
- Model for Improvement
- Change Leadership



Table Introductions

Share at your Table

- Name, Organization, Role
- How many years of experience with Quality Improvement?

Together as a Table

- How many total years of experience at your table?
- Average years of experience?
- Bonus: Min and Max?



Satisfaction Continuum Exercise

- Think about a recent health care experience (yours, or if you accompanied another person)
- How would you rate your experience?

1 = Horrid  **10 = Excellent**



Satisfaction Continuum Exercise

- Think about your clinic or program
- How would you rate your services?

1 = Horrid  **10 = Excellent**



The background of the slide features abstract, flowing blue lines that create a sense of movement and depth. These lines are layered and translucent, with varying shades of blue, ranging from light sky blue to a deeper cerulean. They sweep across the frame, with some lines curving upwards and others downwards, creating a dynamic, organic feel. The overall effect is clean and modern, typical of corporate branding or presentation design.

Your Organization's Infrastructure

FOUNDATIONS FOR QUALITY

Paradigm Shift



A paradigm shift is a new way of thinking that challenges existing belief structures



QI is not QA



QA

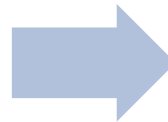
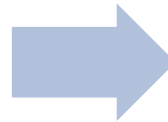
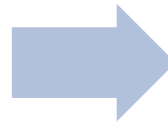
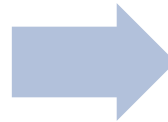
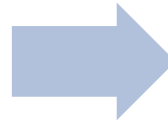
Individual focused

Perfection myth

Solo practitioners

Errors punished

Few responsible for quality



QI

Systems focused

Fallibility recognized

Teamwork & Consumers

Errors are opportunities to learn

All responsible for quality

Example – Star Performer HIV Clinic

**Excellence
For All!**



Change = Test Case Management integration!


Focus = Who makes up the 11-13%?

Status Quo = 87-89% Viral Suppression!

Quality Improvement

Quality improvement is an organizational approach to improve quality of care and services using a specified set of principles and methodologies.

Strategic Focus Areas for Quality Improvement

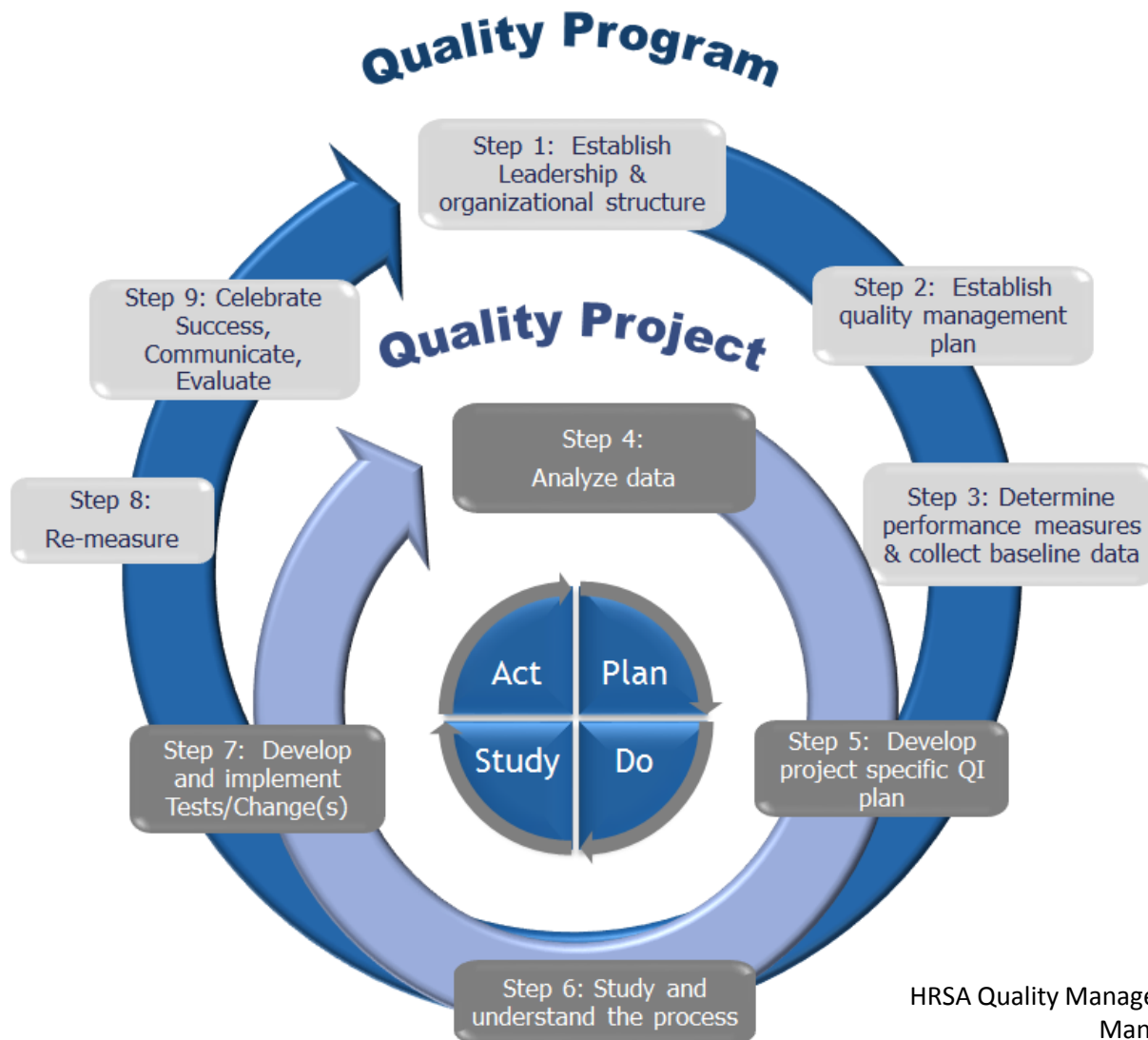
- Eliminate health disparities
 - Increase patient and staff satisfaction
 - Measure and assess specific care processes
 - Improve clinical and non-clinical outcomes
 - Enhance access to and availability of care
 - Eliminate inefficiencies, errors, unnecessary steps and barriers
 - Enhance communication and accountability
 - Reduce burnout and increase staff effectiveness and morale
- 

Principles on the Quality Improvement Journey...

- Success is achieved through meeting the needs of those we serve
- Most problems are found in processes, not in people
- Do not reinvent the wheel – Learn from best practices
- Achieve continual improvement through small, incremental changes
- Actions are based upon accurate and measured data
- Set Priorities and Communicate clearly



9 Critical Steps In Quality Management



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Run, Flow, Drive, OH MY!

PRACTICAL TOOLS FOR QUALITY

Tools

Bar Chart

- Show comparison across categories

Run Charts

- Used to see performance over time

Flow Chart

- Graphic picture of the way a process works

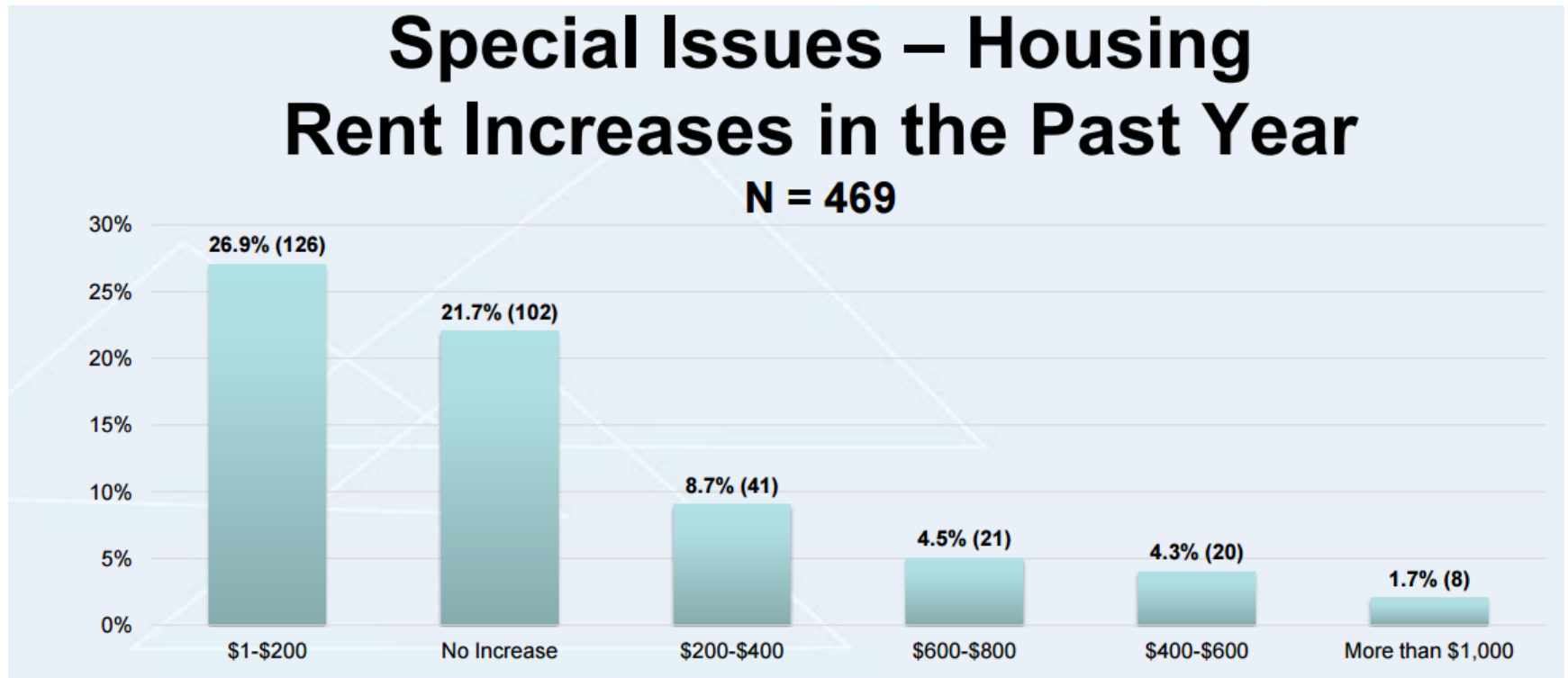
Driver Diagram

- Simple visual to display cause/effects

Fishbone Diagram

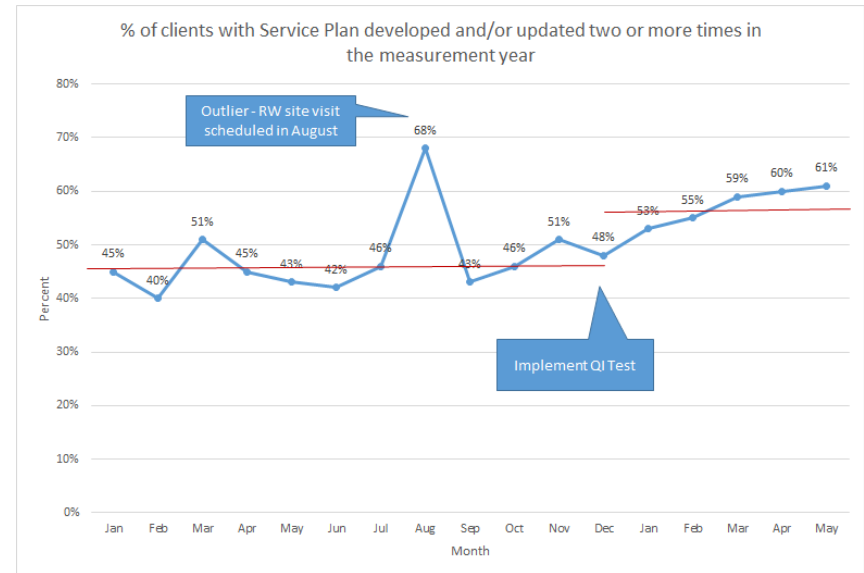
- Understand many causes contribute to an effect

Bar Graph – Simple Pareto Diagram

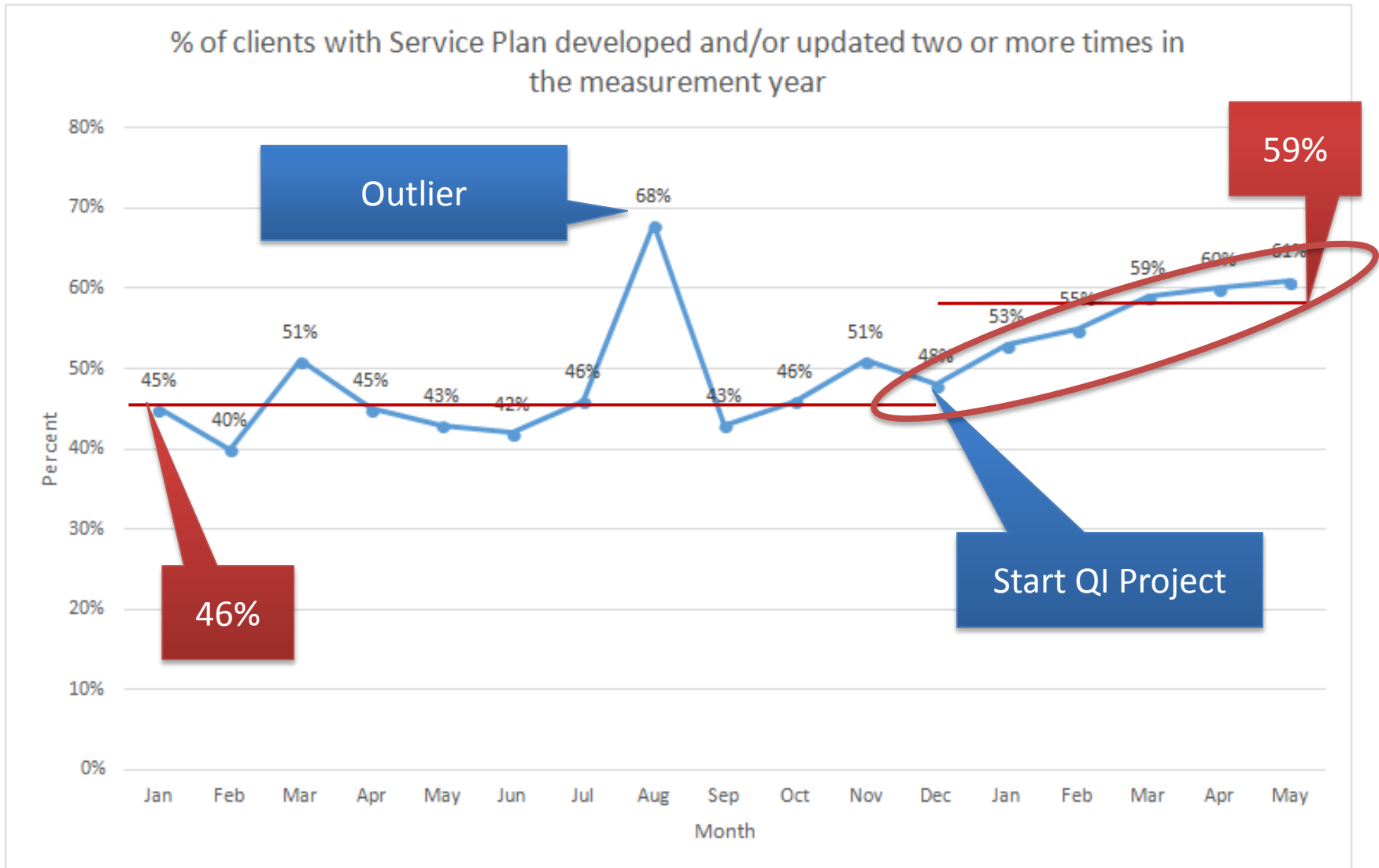


Run chart

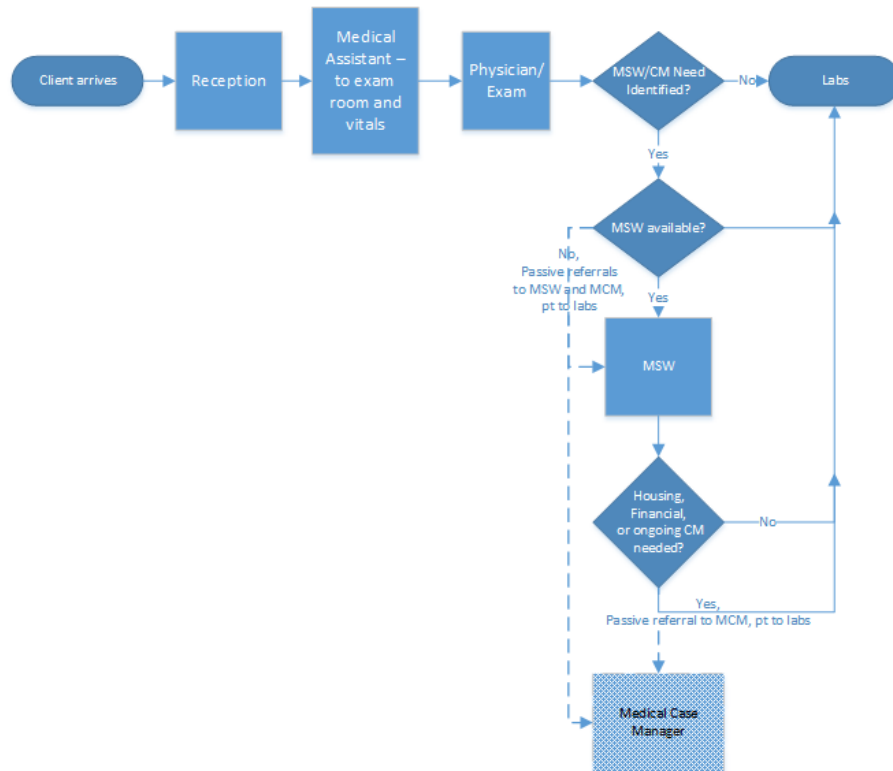
- Used to see performance over time
- May help you decide where to put focus for improvement
- Can help to show if changes result in improvement



Run Chart Example



Flowchart



- Graphic picture of the way a process works
- Can help you understand an existing process and create a proposed process

Start or End

Step in a
process

Decision

Document

Data

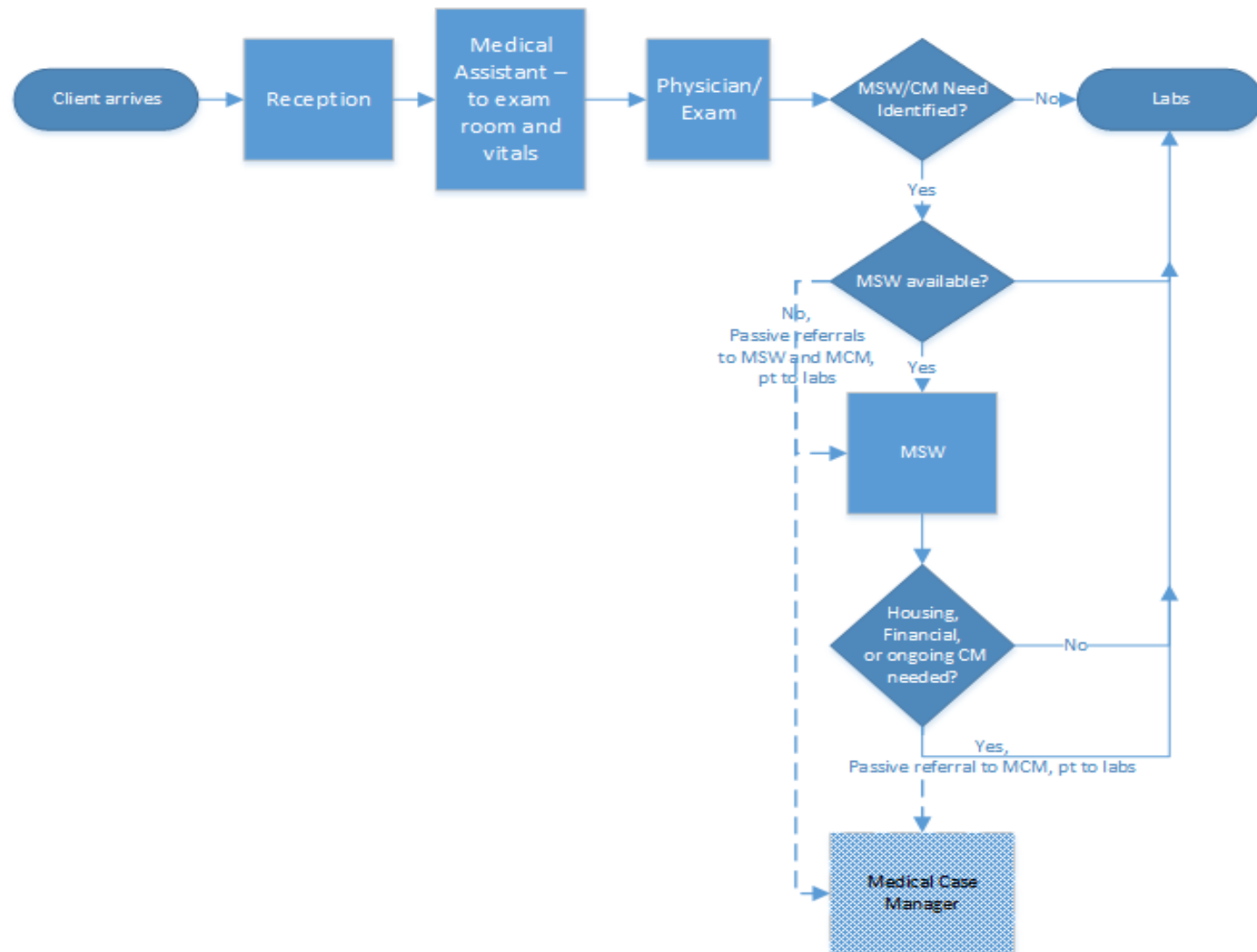
Flowchart Exercise

At your table –

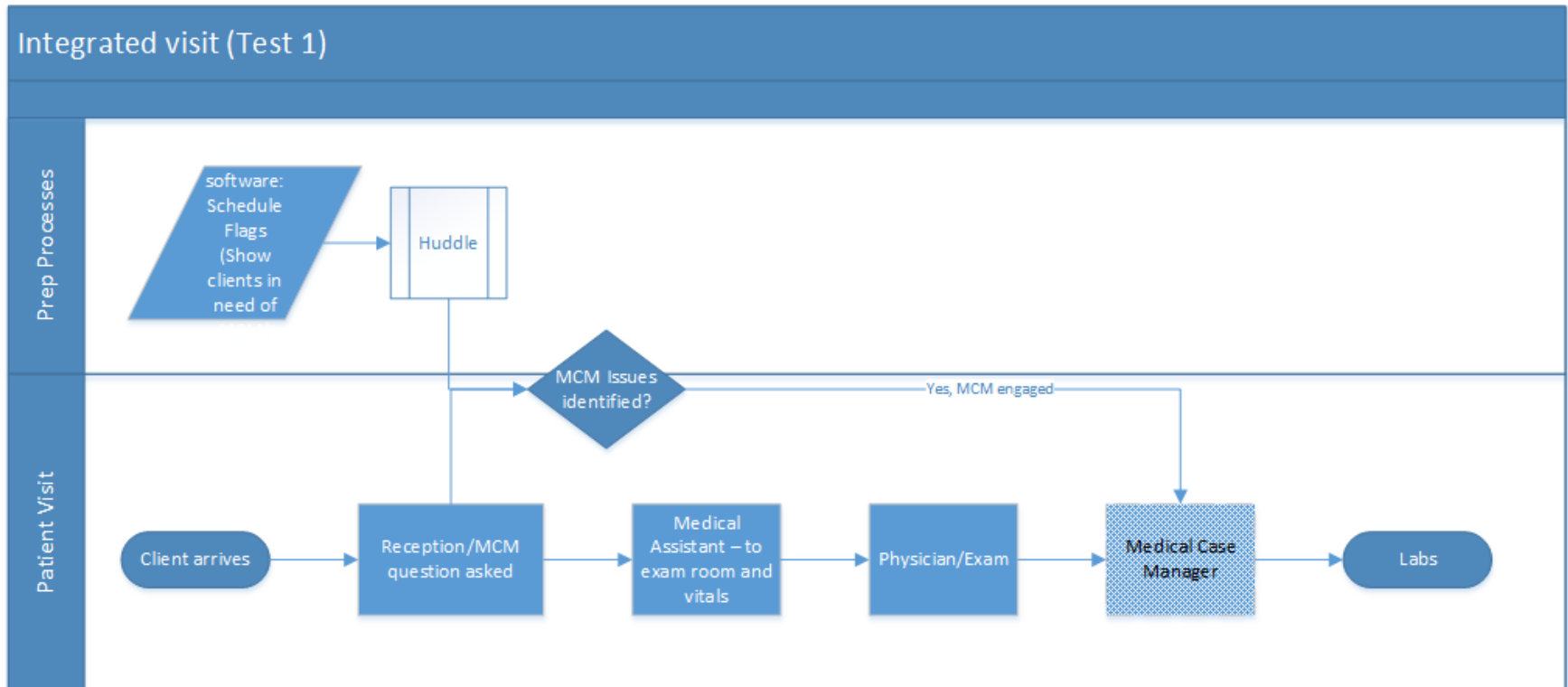
- Build the best pizza ever!
- Use the basic flowchart shapes and sticky notes to document your process.



Flowchart Example - Current

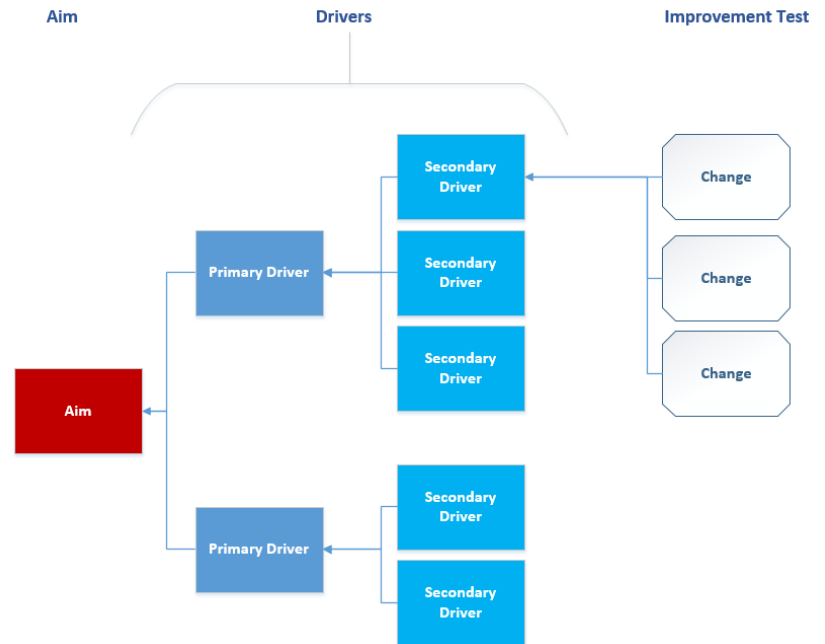


Flowchart Example – Test 1

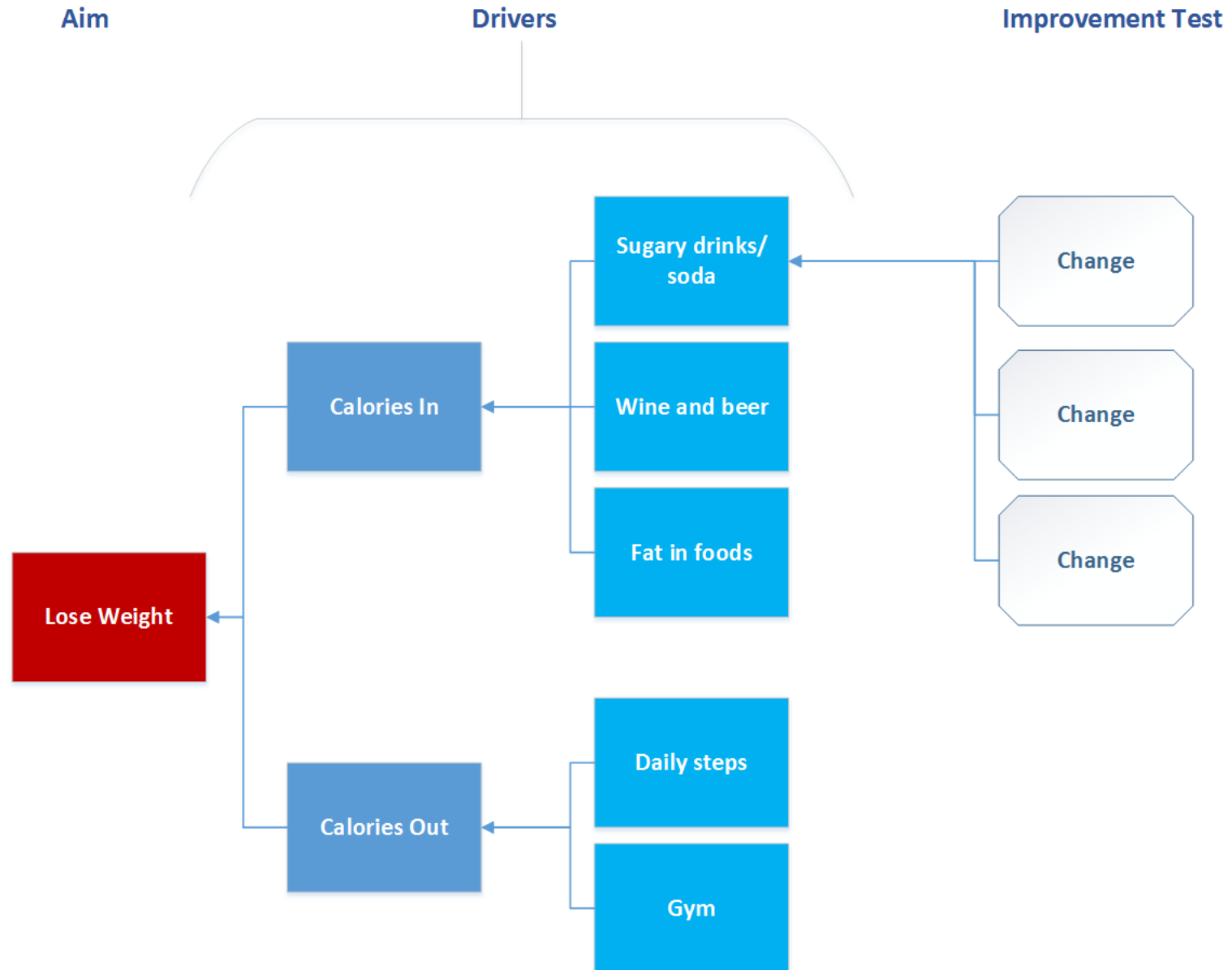


Drivers

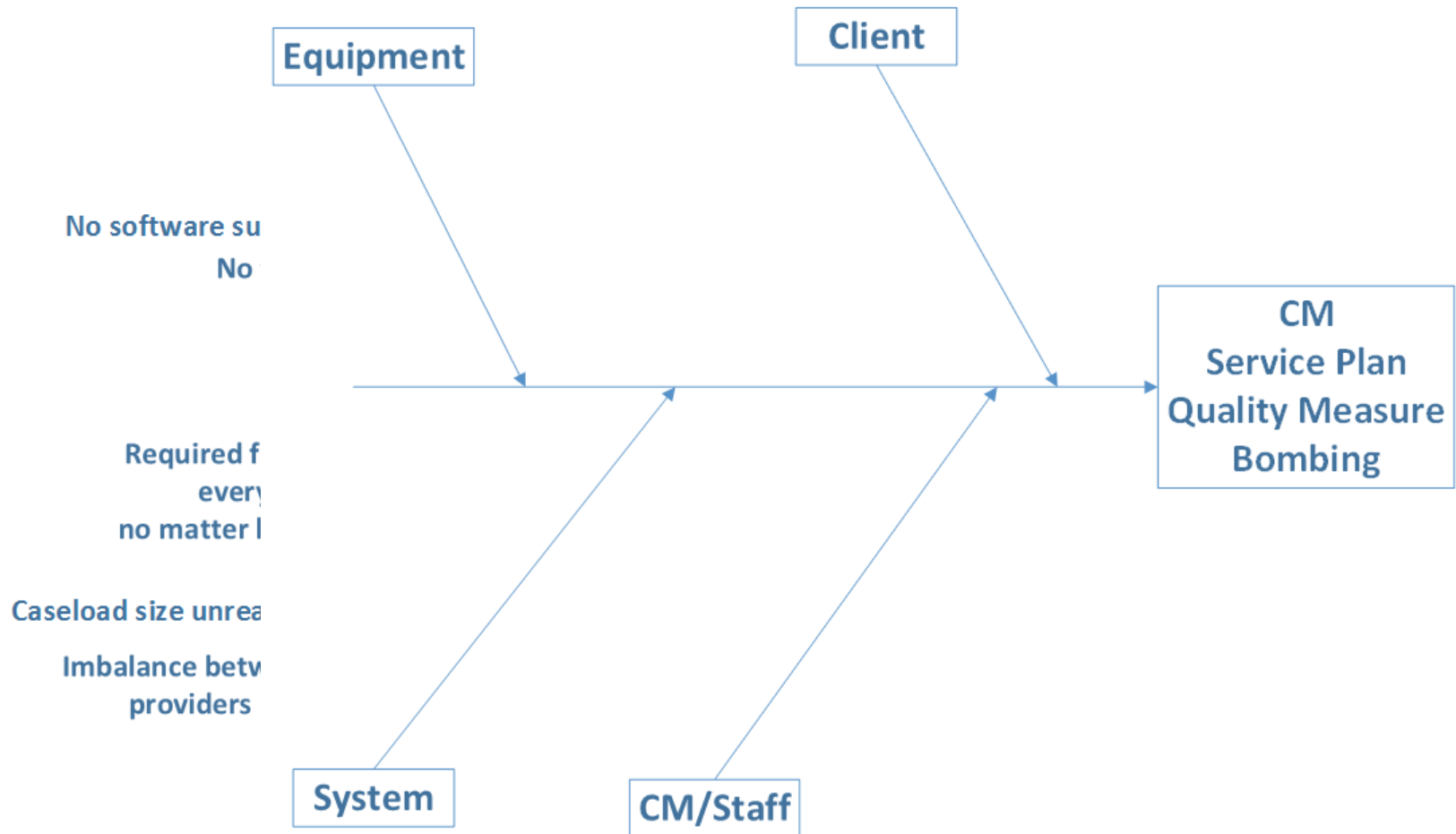
- Simple visual to display cause/effects
- Helps you see where you are going



Driver Diagram



Fishbone Diagram Example



The image features a light blue background with several translucent, wavy blue lines that flow across the frame, creating a sense of movement and depth. These lines are more concentrated at the top and bottom edges, leaving a clear white space in the center.

BREAK

Paper Puppet Exercise

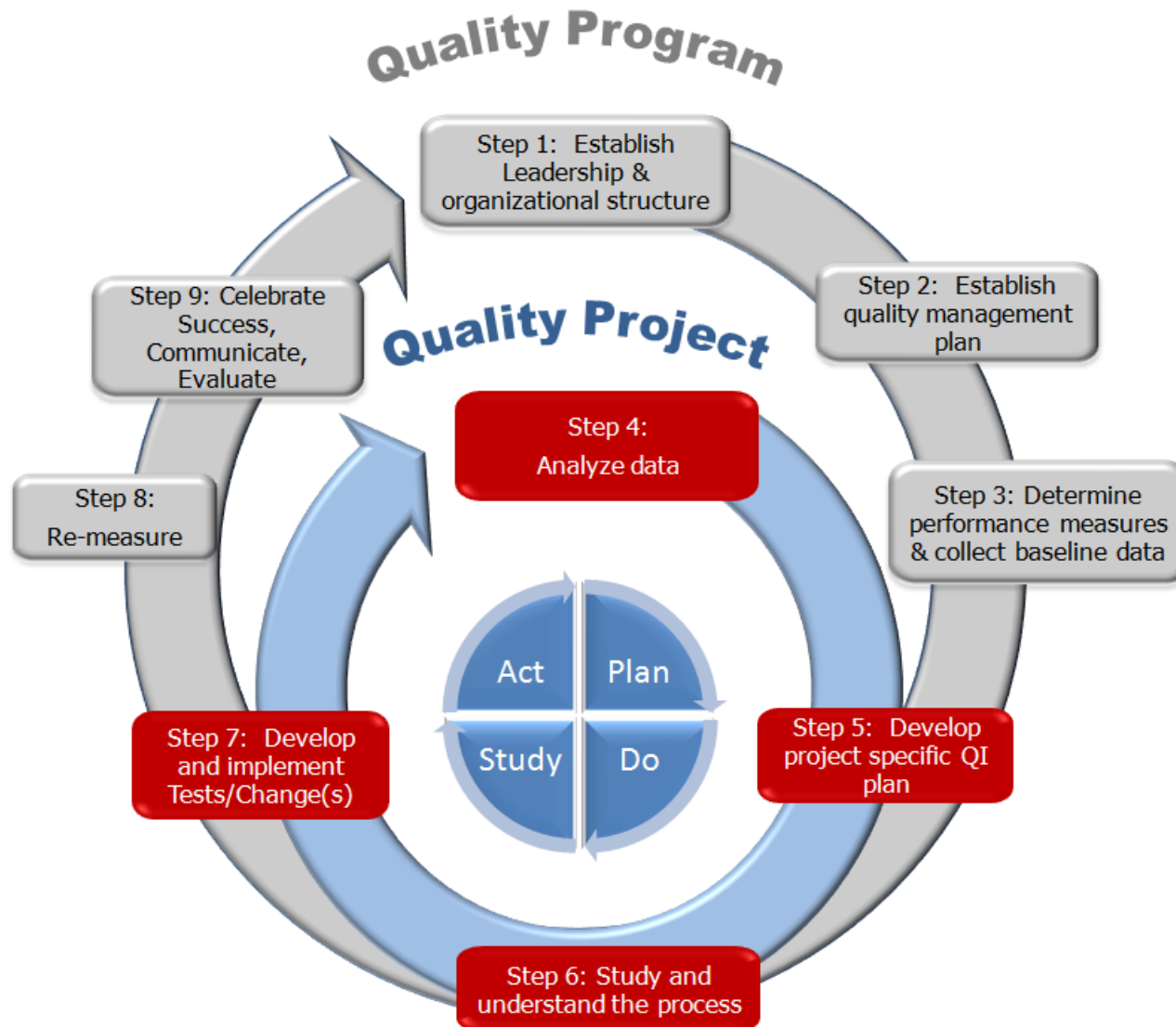
- Learning Objectives
 - Understand what a process is and how the design of the process affects quality
 - Build experience using tools for measuring a process
 - Build experience analyzing data about a process




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INTRODUCTION TO THE MODEL FOR IMPROVEMENT

Inner Circle Work



In 1601, James Lancaster successfully conducted an experiment to illustrate the effectiveness of lemon juice to prevent scurvy. When did the British Navy adopt this treatment?

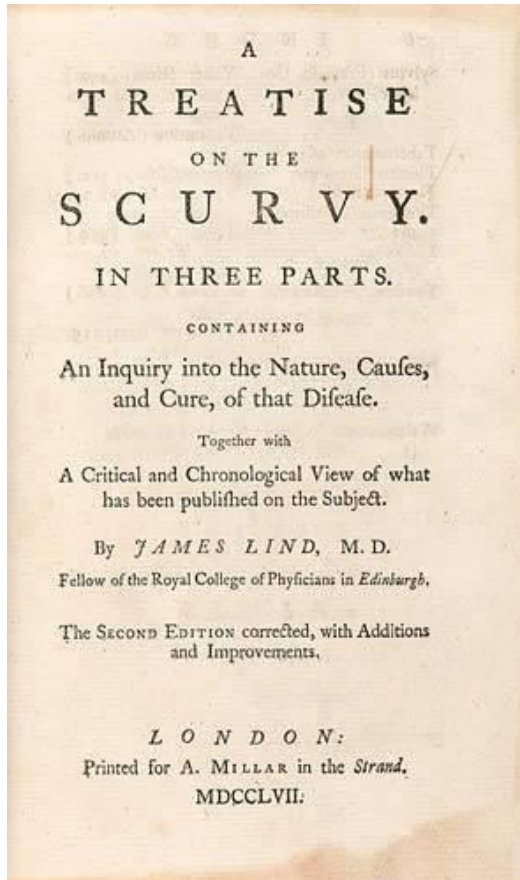
1. 1602
 2. 1689
 3. 1757
 4. 1796
- 

In 1601, James Lancaster successfully conducted an experiment to illustrate the effectiveness of lemon juice to prevent scurvy. When did the British Navy adopt this treatment?

1. 1602
2. 1689
3. 1757
- 4. 1796 (195 years later)**




Treatment of Scurvy



- In 1601 lemon juice, as protective against scurvy, is recorded by James Lancaster
- In 1612, Woodall recommended citrus fruit for protection against scurvy on sea voyages
- In 1753 James Lind published *A Treatise on the Scurvy* which portrays his experiment on-board the ship *Salisbury* in 1747
- From 1772 to 1775 sailors on historic voyages with Captain James Cook remained free from scurvy
- In 1796 lemon juice was officially introduced in the British Navy as a prophylactic against scurvy
- In 1865 British Board of Trade adopted the policy for the merchant marine

How long did the NIH take to recommend the treatment of ulcer as suggested by Dr. Marshall in his 1984 Lancet Article?

1. 2 years
 2. 5 years
 3. 10 years
 4. 20 years
- 

How long did the NIH take to recommend the treatment of ulcer as suggested by Dr. Marshall in his 1984 Lancet Article?

1. 2 years
 2. 5 years
 - 3. 10 years**
 4. 20 years
- 

Treatment of Ulcer – Dr Marshall

The Lancet • Saturday 16 June 1984

UNIDENTIFIED CURVED BACILLI IN THE STOMACH OF PATIENTS WITH GASTRITIS AND PEPTIC ULCERATION*

BARRY J. MARSHALL


J. ROBIN WARREN

*Departments of Gastroenterology and Pathology,
Royal Perth Hospital, Perth, Western Australia*

Summary Biopsy specimens were taken from intact areas of antral mucosa in 100 consecutive consenting patients presenting for gastroscopy. Spiral or curved bacilli were demonstrated in specimens from 58 patients. Bacilli cultured from 11 of these biopsies were gram-negative, flagellate, and microaerophilic and appeared to be a new species related to the genus *Campylobacter*. The bacteria were present in almost all patients with active chronic gastritis, duodenal ulcer, or gastric ulcer and thus may be an important factor in the aetiology of these diseases.

- 1979: Dr. Robin Warren, pathologist at Royal Perth Hospital, Australia found bacteria in stomach of patients
- 1981: Dr. Barry Marshall starts residency
- 1982: Marshall cultivates bacteria: *Helicobacter pylori*, 100% in Duodenal Ulcer and 77% in Gastric Ulcer
- 1984: first publication in Lancet; presents treatment of ulcer with common antibiotic
- 1994: National Institute of Health recommends treatment of ulcer as suggested by Dr. Marshall

In a recent article in the Journal of Quality Improvement, 92 QI projects were compared. What was the timeframe from problem identification to completion of first pilot?

1. 23 days
 2. 60 days
 3. 397 days
 4. 504 days
- 

In a recent article in the Journal of Quality Improvement, 92 QI projects were compared. What was the timeframe from problem identification to completion of first pilot?

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- 

Survey of 92 Quality Improvement Projects in *Journal of Quality Improvement*



504 days from problem identification to completion of first pilot

- 397 days from first team meeting to the end of first cycle
- 75 days to describe current situation in flowchart
- 62 days for data collection if change was improvement

How can we accelerate
change and improvements in
our programs?



Multiple Rapid Tests

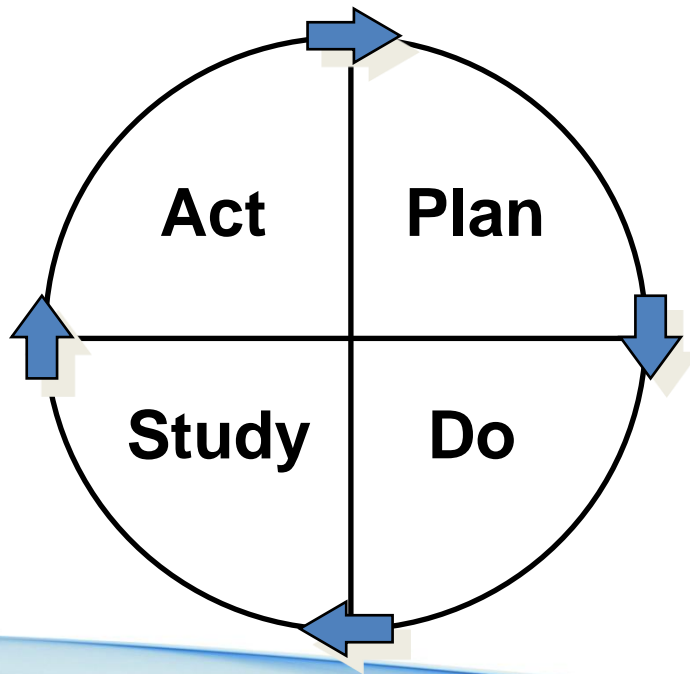
- Increase confidence that the change will result in an improvement
- Learn how to adapt the change to conditions in the specific setting
- Minimize resistance when you move to implement



What are we trying
to accomplish?


How will we know that a
change is an improvement?

What change can we make that
will result in improvement?



Model
for
Improvement

Model for Improvement

- **Improvement is about learning**
 - trial and error (scientific method)
 - improvements require change, however not all changes are an improvement
 - **Measure your progress**
 - only data can tell you whether improvements are made
 - integrate measurement into the daily routine
 - **Improvements thru continuous cycles of changes**
 - Plan-Do-Study-Act approach
 - changes are initiated on a small scale to test them before implementation
- 


Model For Improvement Worksheet

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?

MODEL FOR IMPROVEMENT WORKSHEET	
Team Name:	Date:
AIM: What are we trying to accomplish?	HYPOTHESES: What change can we make that will result in improvement?
MEASUREMENT: How will we know that our change is an improvement?	



PDSA WORKSHEET																													
Team Name:	Date of test:	Test Completion Date:																											
Overall team/project aim:																													
What is the objective of the test?																													
PLAN: Briefly describe the test: How will you know that the change is an improvement? What driver does the change impact? What do you predict will happen? PLAN <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">List the tasks necessary to complete this test (what)</th> <th style="width: 15%;">Person responsible (who)</th> <th style="width: 15%;">When</th> <th style="width: 10%;">Where</th> </tr> </thead> <tbody> <tr><td>1.</td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td></tr> </tbody> </table> Plan for collection of data:	List the tasks necessary to complete this test (what)	Person responsible (who)	When	Where	1.				2.				3.				4.				5.				6.				DO: Test the changes. Was the cycle carried out as planned? <input type="checkbox"/> Yes <input type="checkbox"/> No Record data and observations. What did you observe that was not part of our plan? STUDY: Did the results match your predictions? <input type="checkbox"/> Yes <input type="checkbox"/> No Compare the result of your test to your previous performance: What did you learn? ACT: Decide to Adopt, Adapt, or Abandon. <input type="checkbox"/> Adapt: Improve the change and continue testing plan. Plans/changes for next test: <input type="checkbox"/> Adopt: Select changes to implement on a larger scale and develop an implementation plan and plan for sustainability <input type="checkbox"/> Abandon: Discard this change idea and try a different one
List the tasks necessary to complete this test (what)	Person responsible (who)	When	Where																										
1.																													
2.																													
3.																													
4.																													
5.																													
6.																													

Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?

Set an aim:

- Answer the question, “What are we trying to accomplish?”
- The aim needs to be measurable and have a timeframe

What are we trying
to accomplish?

How will we know
that a change is an
improvement?

What change can we
make that will result in
improvement?

Model for Improvement

AIM:

What are we trying to accomplish?

In the next six months, increase access to case management (CM) for high-risk patients

Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?

Establish measures:

- Answer the question, “How will we know that a change is an improvement?”
- If we don’t measure what we’ve done, we don’t know if what we did is better

What are we trying
to accomplish?

How will we know
that a change is an
improvement?

What change can we
make that will result in
improvement?

Model for Improvement

MEASUREMENT:

How will we know that our change is an improvement?

Process Measure: **More high-risk patients receive CM services**

Outcome Measure: **Enhanced health outcomes for high-risk patients**

Balance Measure: **Patient satisfaction**

Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?

Take action:

- Select new ideas to test
- Answer the question: “What changes can we make that will result in improvement?”

What are we trying
to accomplish?

How will we know
that a change is an
improvement?

**What change can we
make that will result in
improvement?**

Model for Improvement

HYPOTHESES:

What change can we make that will result in improvement?

Hire more CM

Incentivize high-risk patients for attending CM visits offsite

Provide transportation to CM visits offsite

Improve coordination between clinic and external CM organizations

Seamlessly integrate CM services into clinic visit

Model for Improvement Worksheet - Exercise

MODEL FOR IMPROVEMENT WORKSHEET	
<p>What are we trying to accomplish?</p> <p>How will we know that a change is an improvement?</p> <p>What change can we make that will result in improvement?</p>	<p>Team Name:</p> <p>Date:</p>
<p>AIM: What are we trying to accomplish?</p> <p>MEASUREMENT: How will we know that our change is an improvement?</p>	<p>HYPOTHESES: What change can we make that will result in improvement?</p>

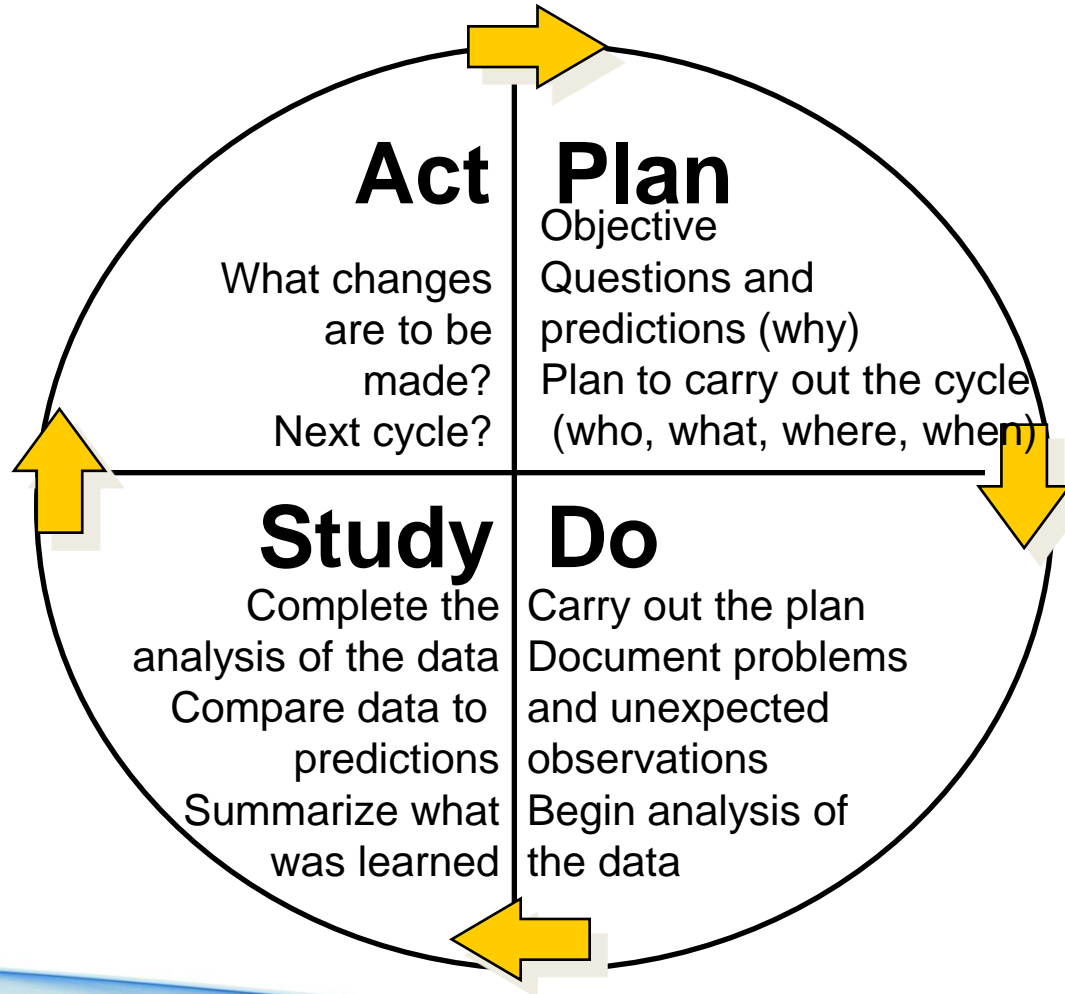


Tennis Ball Exercise

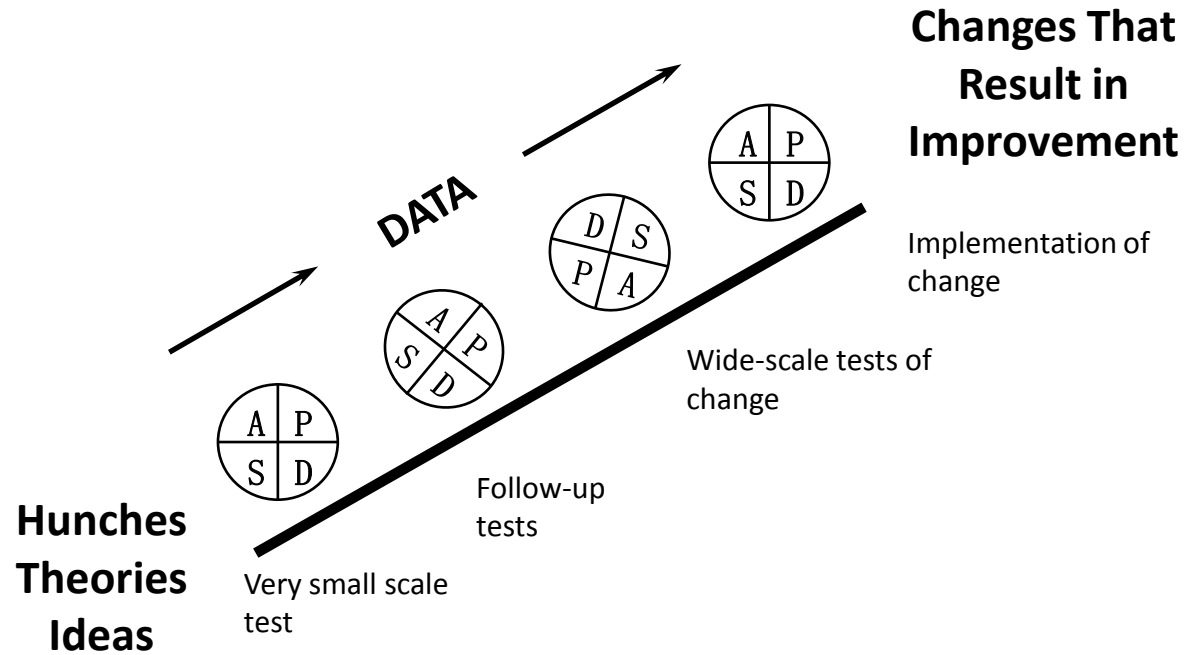
- Learning objectives
 - Know how to design changes to a process
 - Know how to test these changes and build on them to design subsequent changes



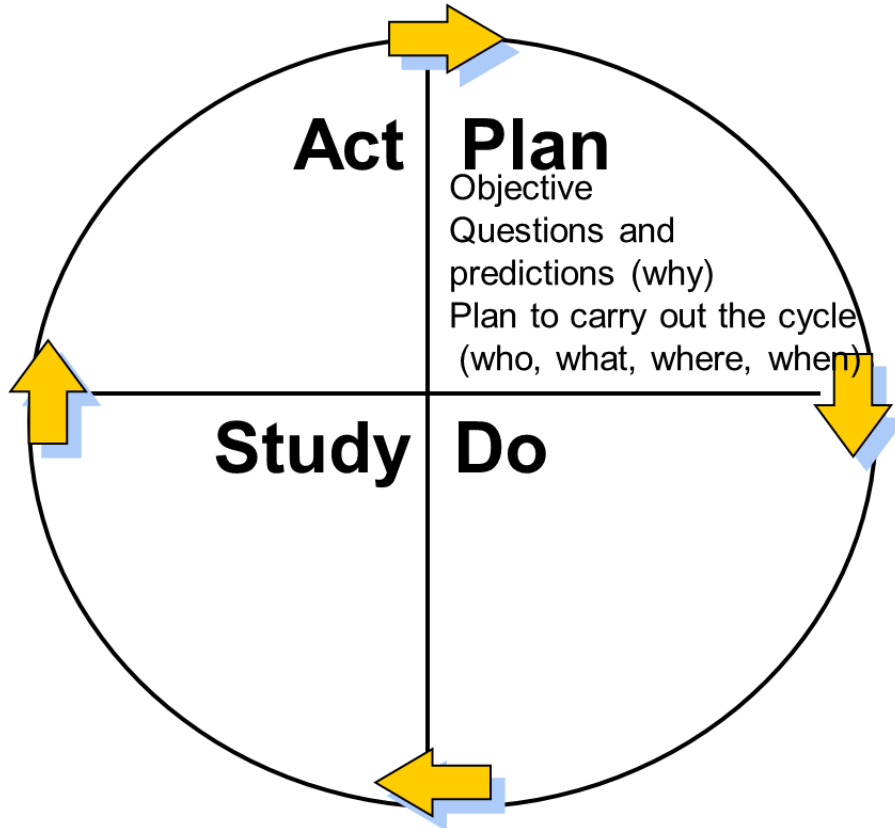
The PDSA cycle for Learning and Improvement



Many PDSA Cycles



PDSA Cycle – Step 1: Plan



- Choose change to test
- Plan should be comprehensive
- Small, simple & fast
 - Oneness
 - Can you do the test by next Tuesday?

PDSA Cycle

Step 1: Plan

PLAN:

Briefly describe the test:

High-risk patients will be referred by clinic staff (MA, nurse, provider) to a CM onsite for one day

How will you know that the change is an improvement?

High-risk patients see CM during their clinic visit

Satisfaction of patients, clinic staff, and CM

What driver does the change impact?

Driver: Access to CM

Barrier: High-risk patients are unlikely to access CM offsite

What do you predict will happen?

Patients will be identified as high-risk and referred to CM

Patients will accept CM services

Patients, clinic staff, and CM will be satisfied with new process

List the tasks necessary to complete this test (what)	Person responsible (who)	When	Where
1. Identify high-risk patients	MA, Nurse, Provider	During visit	Clinic
2. Offer CM services	MA, Nurse, Provider	During visit	Clinic
3. Provide CM services	CM	During visit	Clinic
4. Assess patient satisfaction	Front desk person	End of visit	Clinic
5. Assess CM satisfaction	CM	End of day	Clinic
6. Assess clinic satisfaction	MA, Nurse, Provider	End of day	Clinic

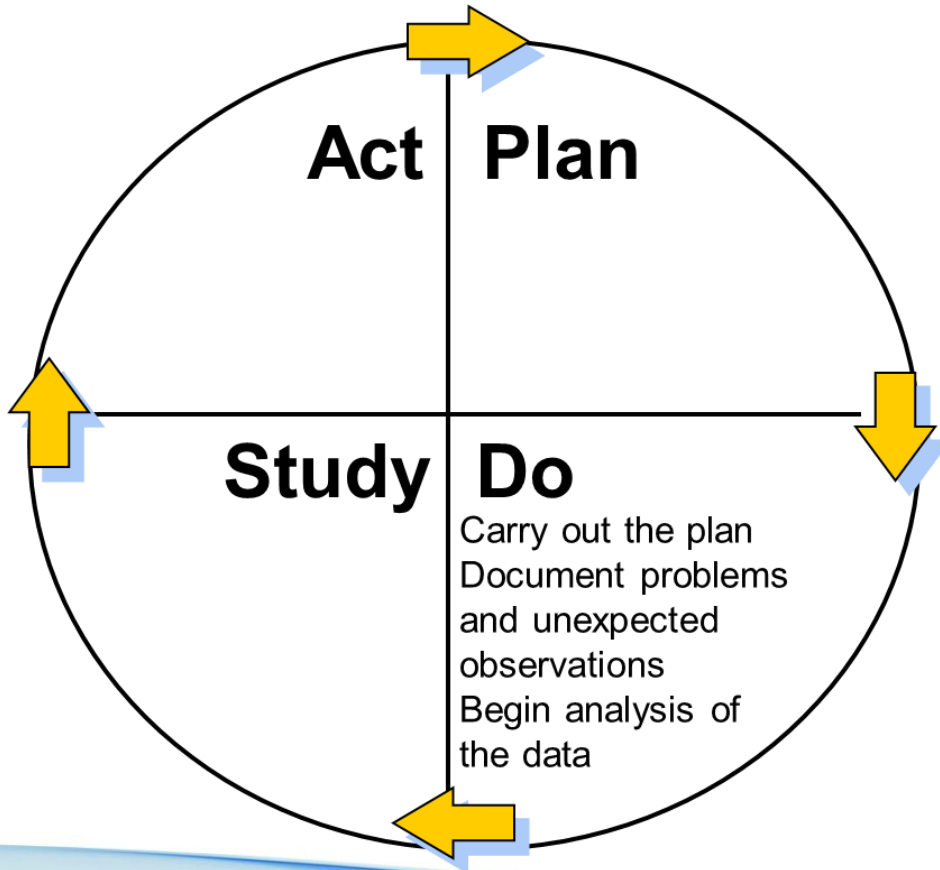
Plan for collection of data:

Collect number of patients seen by CM

Satisfaction of patients collected upon existing clinic

Clinic staff and CM record experience/satisfaction in notes

PDSA Cycle – Step 2: Do



- Try the new way
- Consider how it's going

PDSA Cycle – Step 2: Do

DO: Test the changes.


Was the cycle carried out as planned? ☒ Yes ☐ No

Record data and observations

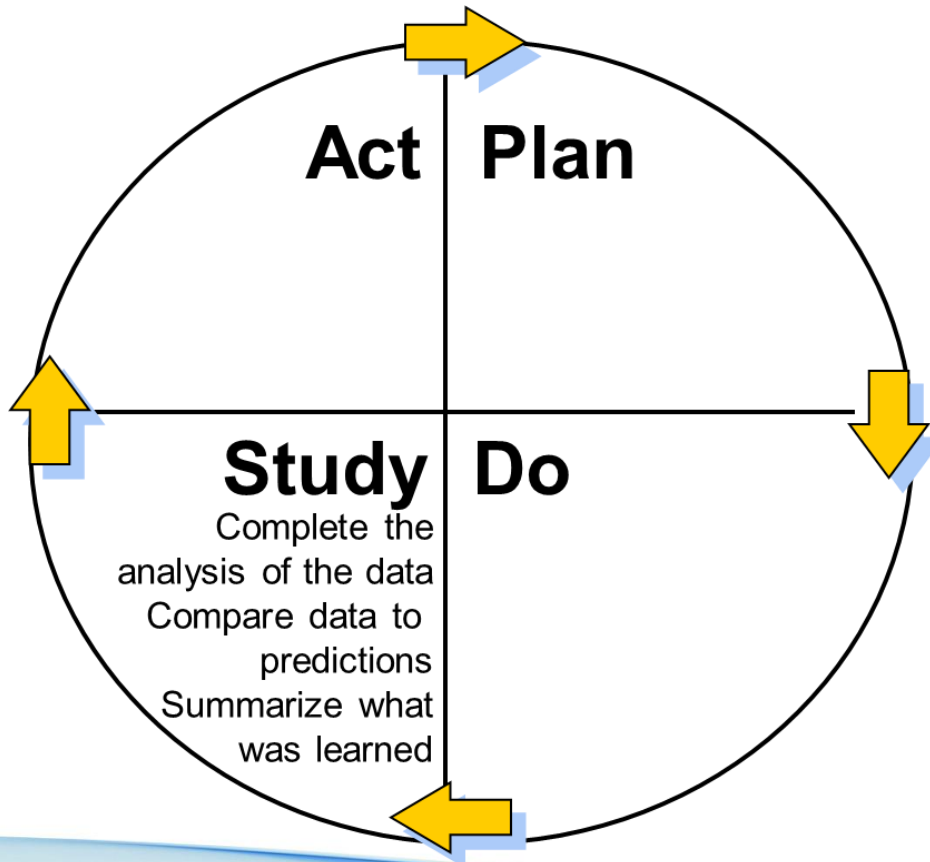
20 patients seen in clinic, 4 referred, 2 accepted

What did you observe that was not part of our plan?

**Clinic staff didn't use a standardized method to identify high-risk patients to refer to CM
Patients didn't provide detailed feedback regarding their satisfaction, general responses weren't informative**



PDSA Cycle – Step 3: Study



- What are the results of the test?
- Was our prediction correct?

PDSA Cycle – Step 3: Study

STUDY:

Did the results match your predictions? ☐ Yes ☒ No

Compare the result of your test to your previous performance:

First test:

Fewer patients were identified for CM services than expected

Some high-risk patients were missed

Impacted provider and CM satisfaction

No standardized way to capture details on patient satisfaction

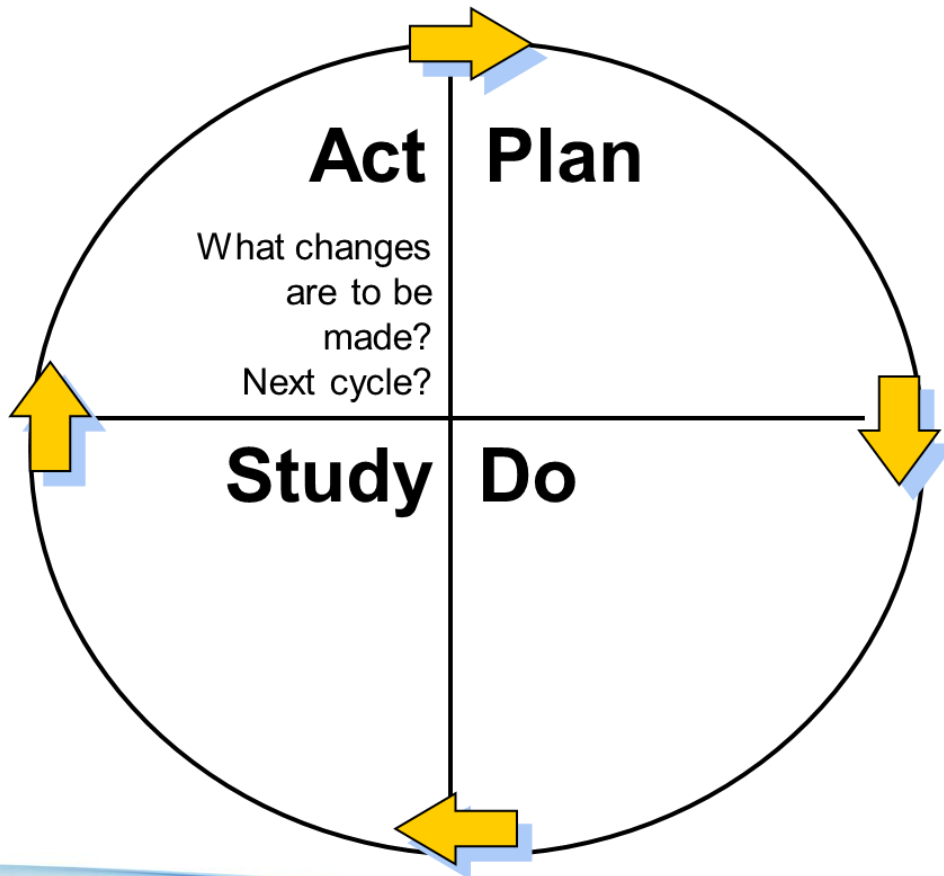
What did you learn?

A standardized process to identify high-risk patients is needed

A standardized tool to gather patient satisfaction data is needed




PDSA Cycle – Step 4: Act



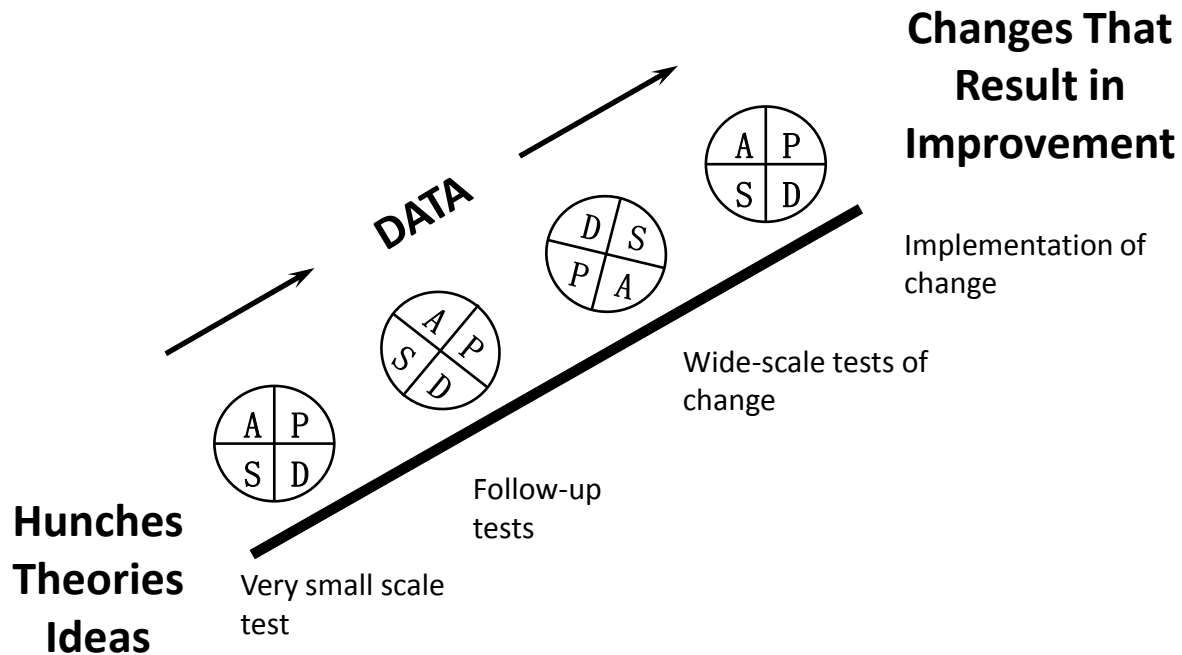
- Adopt, Adapt, Abandon

PDSA Cycle – Step 4: Act

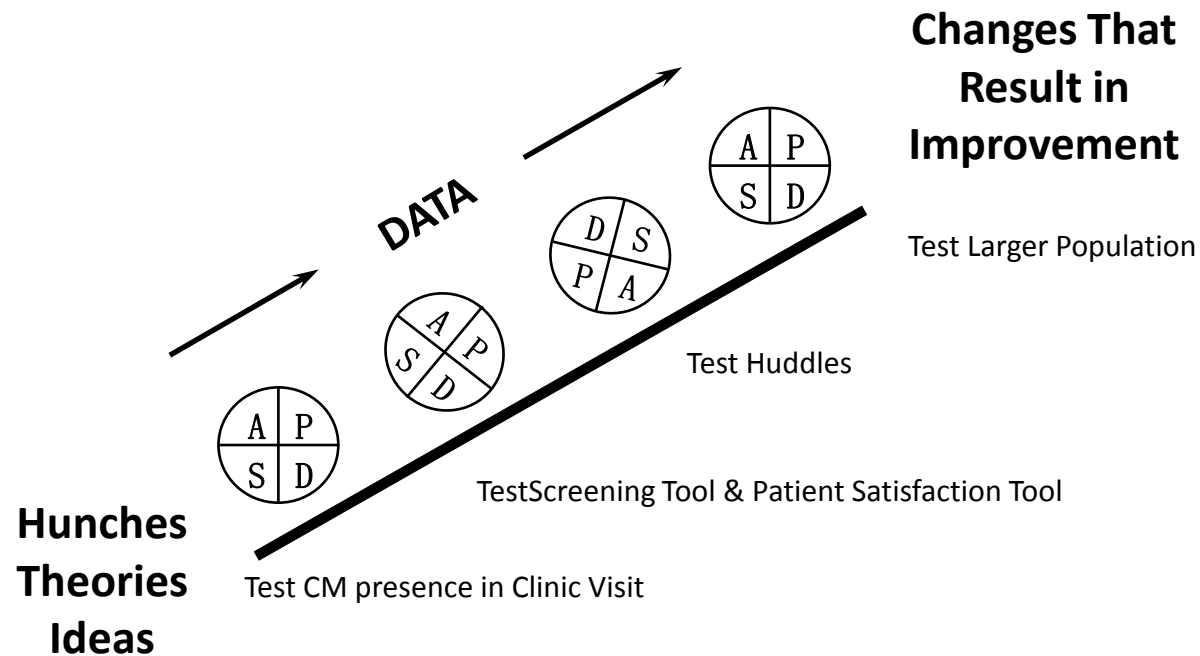
ACT: Decide to Adopt, Adapt, or Abandon.

- X** Adapt: Improve the change and continue testing plan.
Plans/changes for next test:
Nurses implement standardized screening tool to identify high-risk patients, Front desk staff will implement standardized patient satisfaction survey
 - ☐ Adopt: Select changes to implement on a larger scale and develop an implementation plan and plan for sustainability
 - ☐ Abandon: Discard this change idea and try a different one
- 

Many PDSA Cycles



Many PDSA Cycles - Example



PDSA Worksheet - Exercise



PDSA WORKSHEET

Team Name:	Date of test:	Test Completion Date:
Overall team/project aim:		
What is the objective of the test?		



PLAN:

Briefly describe the test:

How will you know that the change is an improvement?

What driver does the change impact?

What do you predict will happen?

PLAN

List the tasks necessary to complete this test (what)	Person responsible (who)	When	Where
1.			
2.			
3.			
4.			
5.			
6.			

Plan for collection of data:

DO: Test the changes.

Was the cycle carried out as planned? ☐ Yes ☐ No

Record data and observations.

What did you observe that was not part of our plan?

STUDY:

Did the results match your predictions? ☐ Yes ☐ No

Compare the result of your test to your previous performance:

What did you learn?

ACT: Decide to Adopt, Adapt, or Abandon.

☐ Adapt: Improve the change and continue testing plan.
Plans/changes for next test:

☐ Adopt: Select changes to implement on a larger scale and develop an implementation plan and plan for sustainability

☐ Abandon: Discard this change idea and try a different one

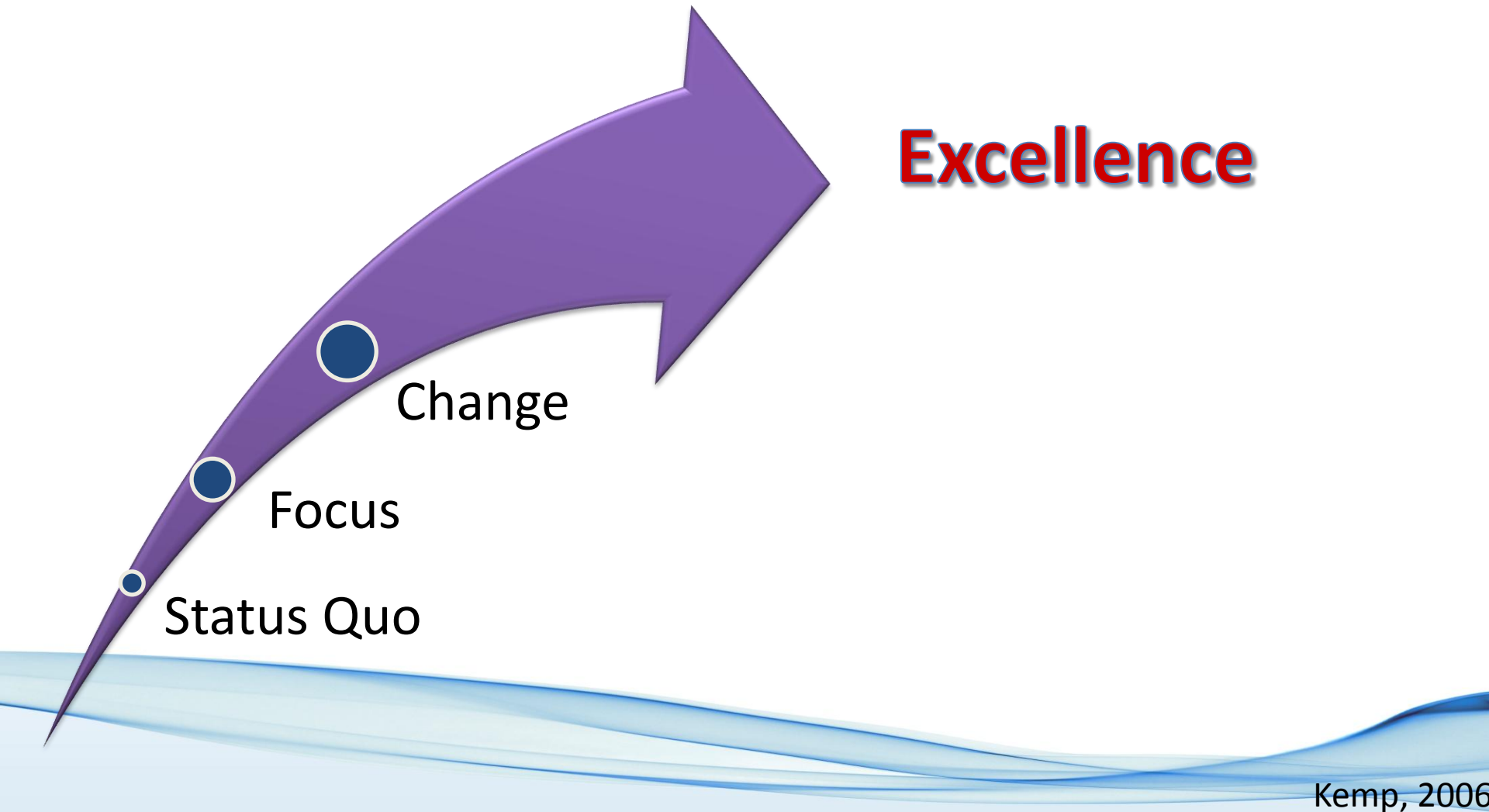
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Creating Energy and Momentum For Change

QUALITY AND CHANGE LEADERSHIP

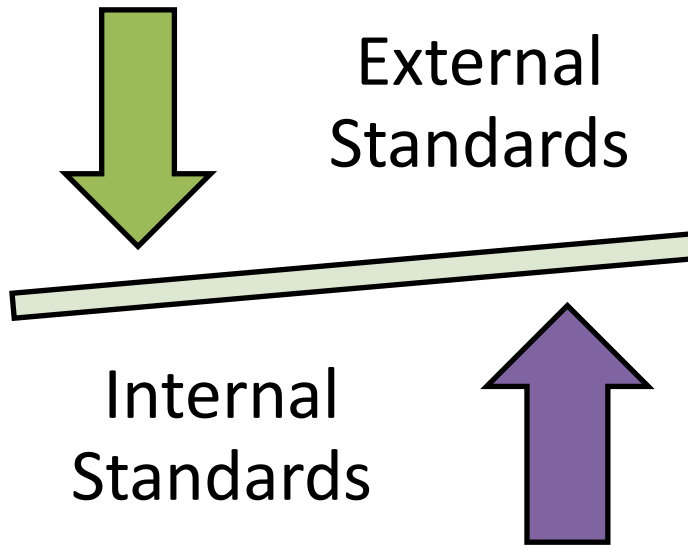


Quality management shifts responsibility for excellence from the individual to a strategic system for improvement



Leaders must...

- Identify assumptions and question them
- Find best practices and spread them throughout the organization and beyond
- Manage standards (defined, observable and measurable requirement, target or goal)
 - Understand the standard
 - Have a way of comparing a process to the standard
 - Know how much variation is acceptable
 - Take action when practices are not in line with the standard



Elephant & Rider

The Elephant (Emotion)

- Gives energy to change
- Provides motivation
- Loves instant gratification
- Overpowers the rider



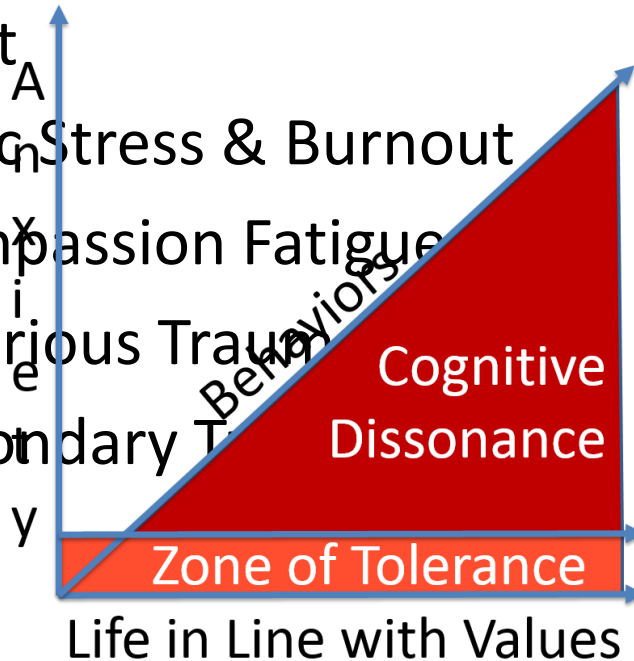
Status Quo

Change

Dangers that Shift Focus Away from Excellence

- Change is Stress!!!
 - Make sure there is room in the cup
 - Eustress and Cognitive Dissonance
- Self-care and Healthy Organizational Cultures Prevent

- Toxic Stress & Burnout
- Compassion Fatigue
- Vicarious Trauma
- Secondary Trauma



Elephant & Rider

- The Rider (Intellect)
 - Provides direction
 - Thinks long term
 - Gets stuck easy



Status Quo

Change

Elephant & Rider

Direct the Rider! Motivate the Elephant Shape the Path

- Follow the Bright Spots
- Point to the Destination
- Script the Critical Moves
- Find the Passion
- Shrink the Change
- Celebrate Wildly
- Tweak the Environment
- Build Healthy Habits
- Rally the Herd



Status Quo

Change

Quality Improvement in an Organizational Context



- Utilize PDSA Cycle:
 - Pursue a vision towards excellence
 - Support Mission and values
- Provide focus and motivation for strategic change
- Striving for Excellence
 - Motivating the elephant
 - Giving the rider a direction
 - Creating process that lead to a better future state

Resources

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