QUALITY IMPROVEMENT:

DIFFERENT METHODS AND MODELS FOR IMPROVEMENT: LEAN, SIX SIGMA AND THE MODEL FOR IMPROVEMENT



Lean, Six Sigma & The Model For Improvement

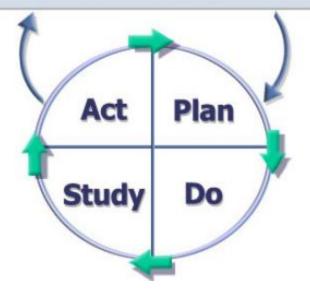


Model for Improvement

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?







Six Sigma, Lean, MFI

Six Sigma

Define

Measure

Analyze

Improve

Control

Lean

Identify Value

Understand Value Stream

Eliminate Waste

Establish Flow

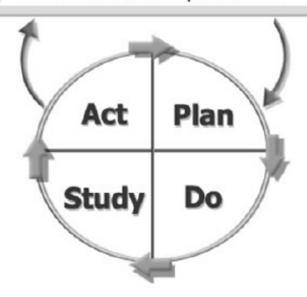
Enable Pull

Pursue Perfection **Model for Improvement**

What are we trying to accomplish?

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Source: The Improvement Guide, API

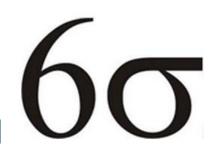
Lean

- An improvement <u>philosophy</u>
 - "a set of ideas about how to do something or how to live"
- Term coined in the 1980s originally used to describe the Toyota Business Model
- Lean Philosophy:
 - 1. Puts the customer experience at the center of its work.
 - Focuses on identifying and eliminating "waste."
 - 3. Ensures that all parts of a process are value-added.



Strives for continuous improvement.

Six Sigma



- Improvement model that emphasizes measuring and reducing variation to decrease the number of errors within a process
- Two methods for Six Sigma improvement projects:
 DMAIC and DMADV
 - DMAIC: Define, Measure, Analyze, Improve ,Control
 - DMADV: Define, Measure, Analyze, Improve ,Control
- Typically led by someone with Six Sigma training
- Most organizations now adopt Lean Six Sigma





Model for Improvement

- Framework for testing and implementing changes that lead to improvement.
- Three fundamental questions part of every improvement project:
 - 1. What are we trying to accomplish?
 - 2. How will we know that a change is an improvement?
 - 3. What changes can we make that will result in improvement?

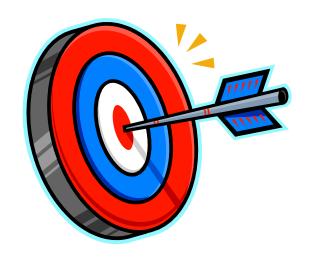


What Are We Trying To Accomplish?

Step 1: Create an Aim Statement

 An aim statement is an explicit description of a team's desired outcomes, which are expressed in a measurable and time-specific way.

"Our aim is to reduce our wait time in the lobby from 30 minutes on average to 20 minutes by July 2015."





"How will we know that a change is an improvement?"

Step 2: Choose measures for your project



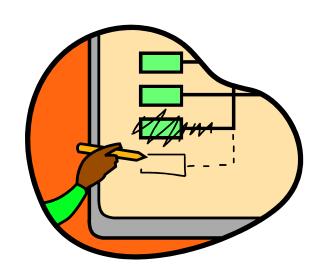


"What changes can we make that will result in improvement?"

Step 3: Use change concepts to identify what you want to test

- Change concepts are general ideas used to stimulate specific, actionable steps that lead to improvement. (Safety Net Medical Home Initiative)
- Examples:
 - "Use substitution"
 - "Listen to customers"
 - "Standardization"



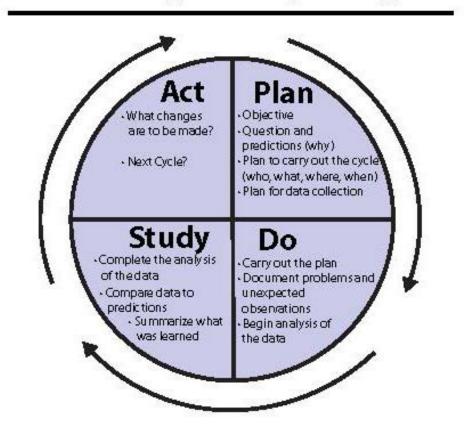


"What changes can we make that will result in improvement?"

Step 4. Test a change

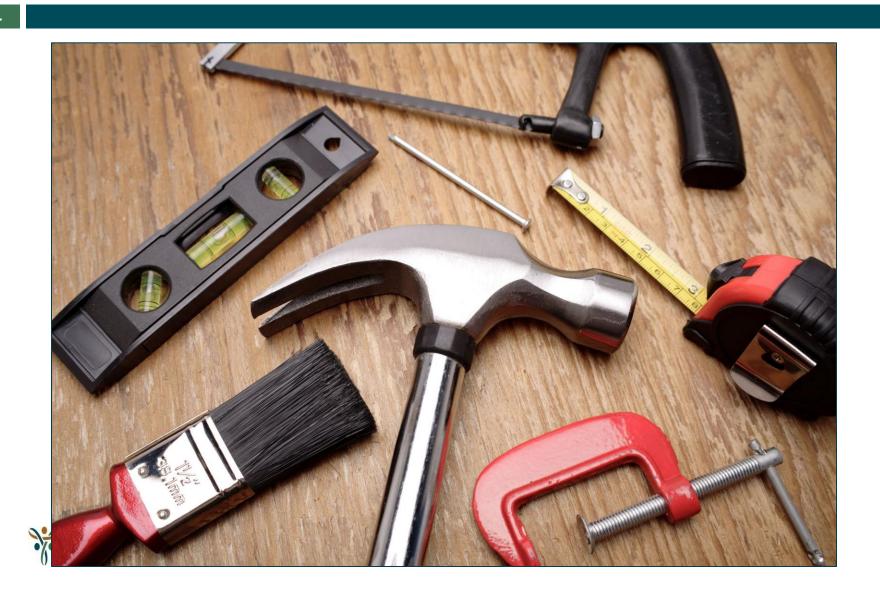
After discussing and selecting a change concept with your team, test your ideas using the PDSA cycle

The PDSA Cycle for Learning and Improving



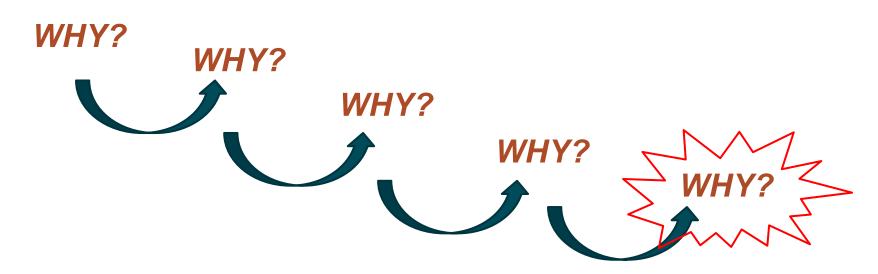


Example Lean Tools & Concepts



The Five Why's

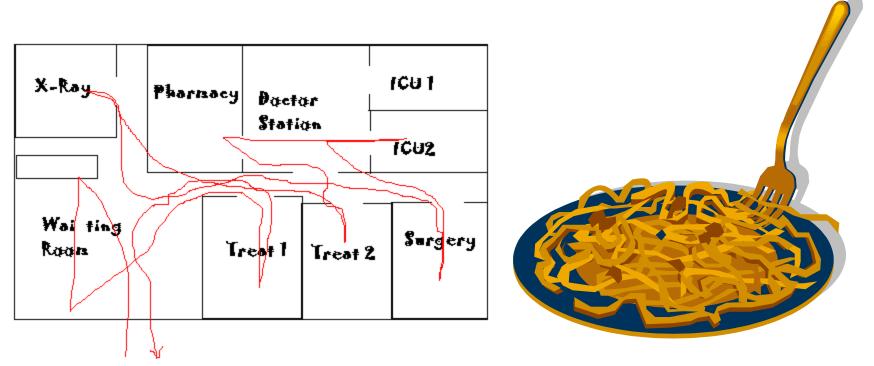
- A technique to get to the deeper reason behind a particular problem
- When to use: When you want to get to the root cause of a problem





Spaghetti Mapping

- Process of mapping out a space and tracking the movement of people or products
- When to use: When you want to improve the physical flow of a process



Now what?

- QI Managers: Consider incorporating one of these philosophies into your QI Plan
- Consider incorporating one or two of these tools into your work
 - Puzzled over why your MA's haven't used your new protocols? Use the Five why's!
 - Trying to brainstorm ideas to get people to use your new EMR report? Do an affinity diagram!
 - Testing a change to a process? Use PDSA cycles



Need more information?

- Check your thumb drive for these tools
- Email us if you have any questions about these tools and how to use them (<u>Data@orpca.org</u>)

Other resources:

- The Institute for Healthcare Improvement -<u>http://www.ihi.org/Pages/default.aspx</u>
- Minnesota Department of Health QI Toolkit -http://www.health.state.mn.us/divs/opi/qi/toolbox/
- Tennessee Initiative for Perinatal Quality Care http://tipqc.org/qi/jit/

