Fundamentals of Quality Improvement for Athletic Trainers

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2023 Great Lakes Athletic Trainers' Association Annual Meeting and Symposium

Learning Objectives

- ► Participants will be able to
 - ➤ Summarize what quality improvement is and the value that it has in their clinical practice
 - ► Understand foundations of quality improvement strategies
 - ► Identify fundamental quality improvement tools and techniques

Disclaimers

- ► Certified by the Board of Certification for the Athletic Trainer (#2000010327)
 - ▶ No other affiliation
- ► I have no conflicts of interest to disclose

- ► The views expressed in this presentation are my own
- My views may not be the same as those of any organization or individual I am associated with

What is Quality Improvement?

"...systematic and continuous actions that lead to measurable improvement in health care services and the health status of targeted patient groups."

Attributed to HHS

Scope of QI

"Stupid. Research project?! Not unless it counts to a doctorate. AT in collegiate setting has absolutely NO time to do that, they never even get a day off to themselves."

Show less

凸 7 5P REPLY

Scope of QI

Research

- ► Tries to uncover truth about the universe
- Results should be broadly applicable
- "What should all health systems be doing to improve care?"
- ► Requires high rigor

QI

- ► Tries to solve a particular problem in a specific context
- ► No intention of the solution being applicable in any other scenario
- "What can our health system do to improve care?"
- Commonly uses 'guess-andcheck'

Scope of QI

Research

- ► Efficacy
- ► Reductionist

QI

- ► Effectiveness
- ▶ Systems



Systems Thinking

►Upstream Thinking



You Are Probably Already Doing QI (Mostly)

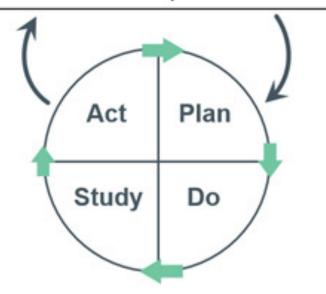


Model for Improvement

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?



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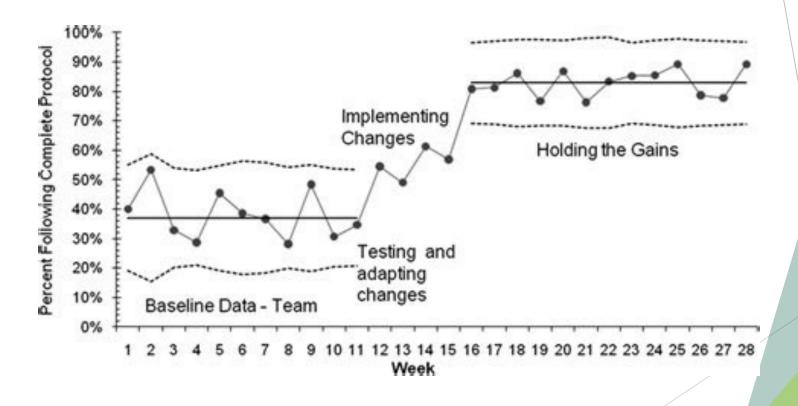
▶Plan



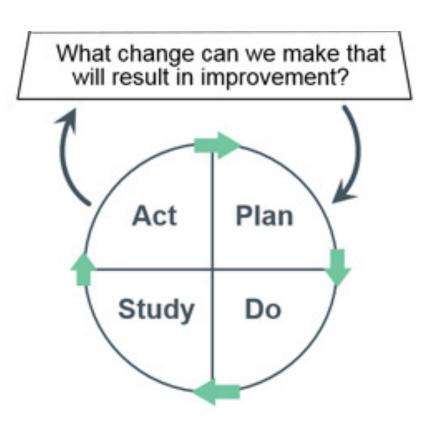
▶Do



►Study



►Act



Revisiting the Example

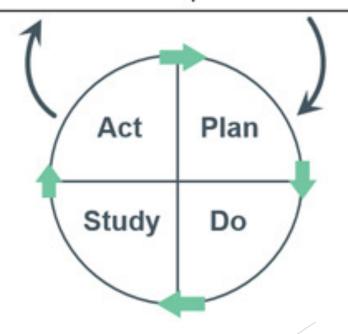


Model for Improvement

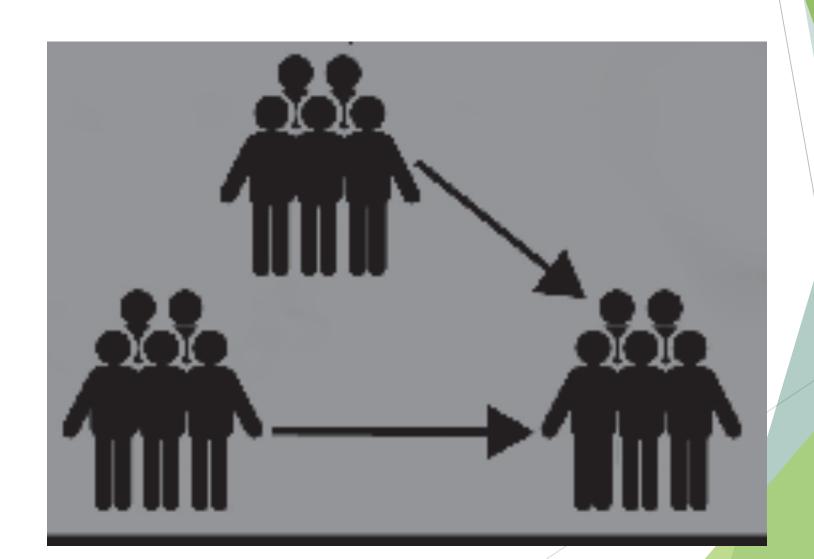
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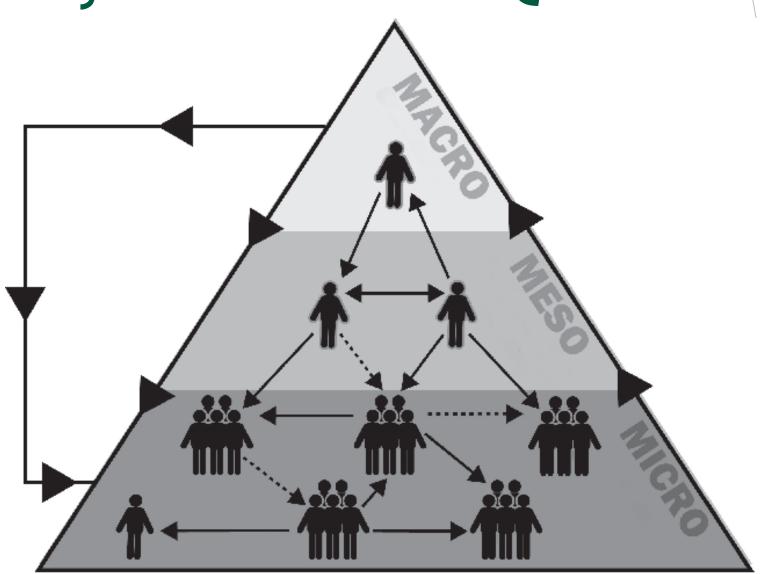
What change can we make that will result in improvement?



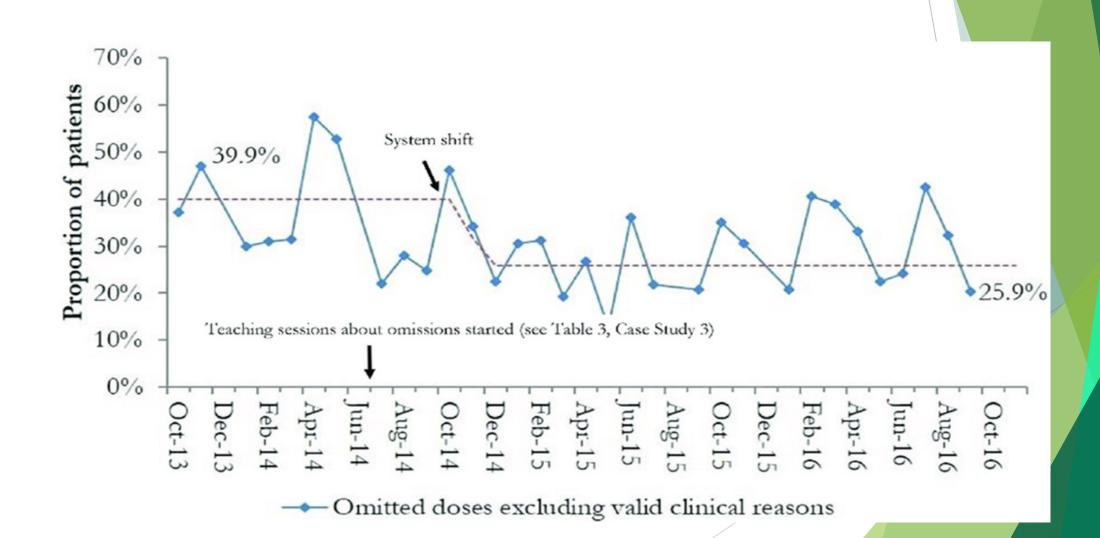
Then Why Do We Need QI?



Then Why Do We Need QI?



Then Why Do We Need QI?



What Are We Trying to Accomplish?

Global Aim

- ▶ Big, hairy, <u>audacious</u> goal
- ► E.g.:
 - ► Eliminate ACL tears in our population

SMART Aim

- ► Specific
- ▶ Measurable
- Achievable (but not too much)
- ► Relevant
- ► Timely

How Will We Know That a Change is an Improvement?

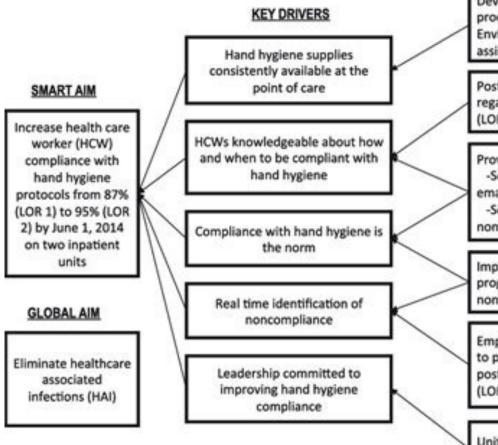
- Outcome
 Measures
 - The thing we're trying to improve
 - ➤ Dependent variable(s)

- Process
 Measures
 - The way we're trying to improve it
 - ► Independent variable(s)

- Balancing
 Measures
 - ➤ Potential side-effects
 - ► "Controlling for..."

What Change Can We Make That Will Result in an Improvement?

- ► Key Driver Diagrams
 - What we want ←
 What we need ←
 How to get it



INTERVENTIONS (Level of Reliability)

Develop restocking & repair process for supplies by Environmental Services & nursing assistants (LOR 2)

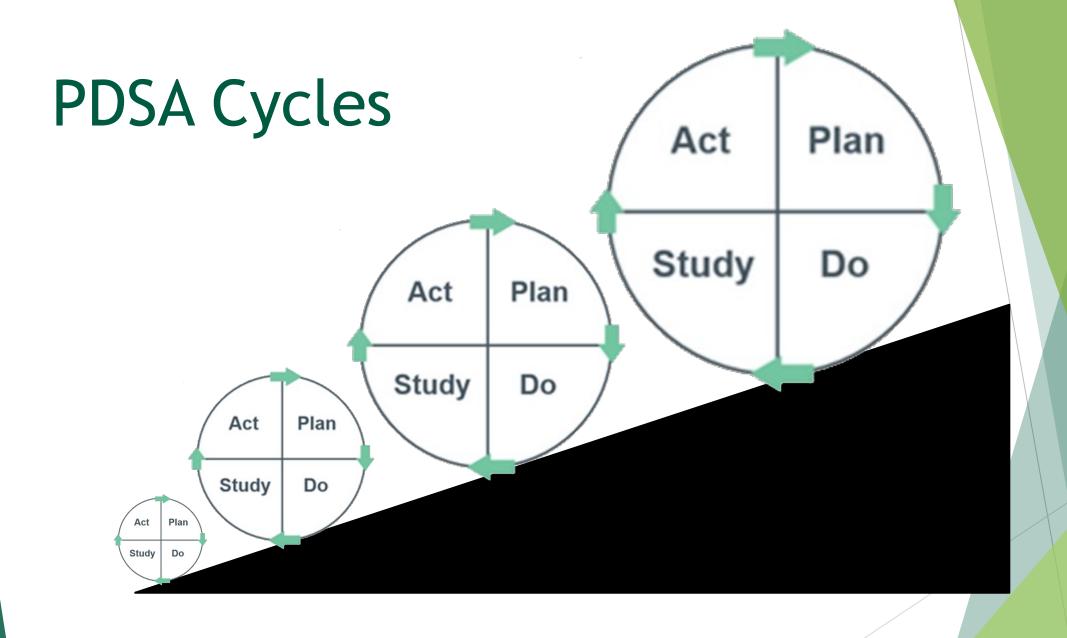
Post visual reminders on units regarding compliance protocols (LOR 1)

Provide compliance information -Send weekly control chart by email & post on each unit -Send weekly identification of noncompliance (LOR 1)

Implement hand hygiene champion program to identify & mitigate noncompliance (LOR 2)

Empower families to remind HCWs to perform hand hygiene by posting educational reminders (LOR 2)

Unit leaders committed and serve as role models & educators (LOR 1)



Most Important Takeaways

- ▶ QI helps you improve things that matter to you
- Intentional and systematic, not necessarily complicated
- ► Start with where you want to go then decide how you're going to get there
- ► Small, iterative, tests of change

Questions?

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