Adult Congenital & Pediatric Cardiology QUALITY NETWORK

Quality Improvement 101 Jeff Anderson, MD, FACC

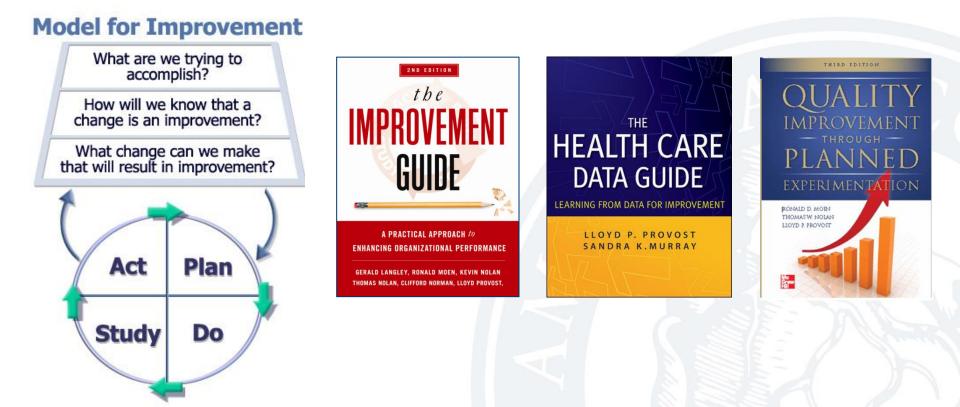


Objectives

- Model for improvement
- Profound theory of Knowledge
- The Key Driver Diagram
- Breakthrough Collaborative Series
- Improvement team



The Model for Improvement





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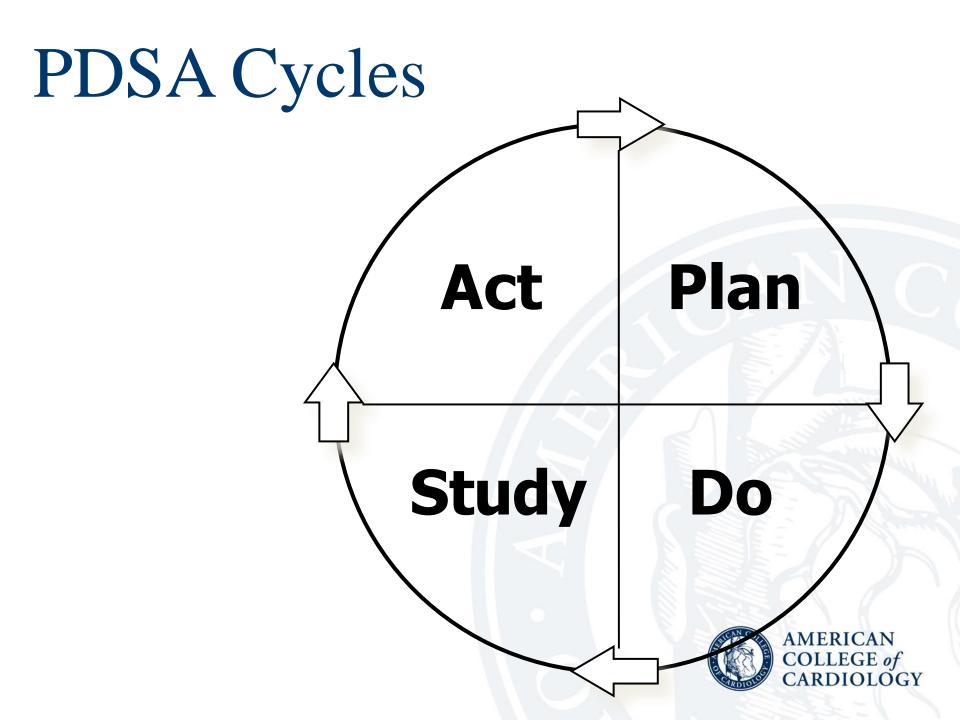
Model for Improvement

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?

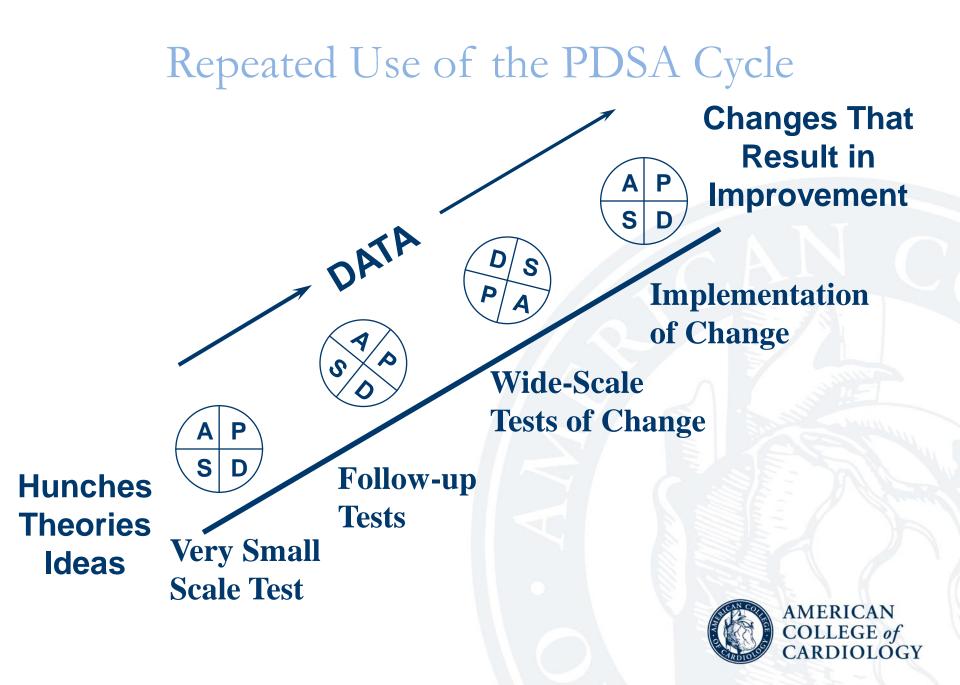




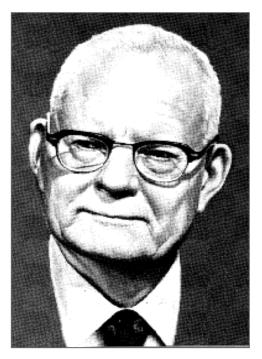
Why this Model for Improvement?

- •Facilitates the use of teamwork to make improvements
- Provides a framework for the application of statistical tools and methods
- Encourages planning to be based on theory
- Emphasizes and encourages the iterative learning process
- Provides a way to empower people in the organization to take action

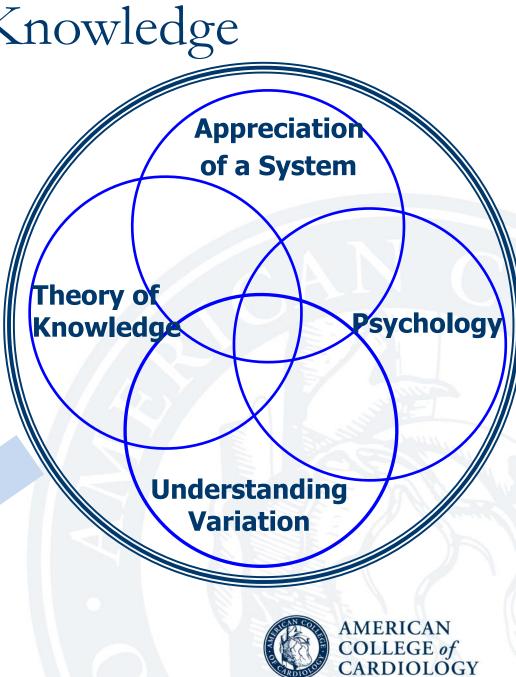




Profound Knowledge



W. Edwards Deming (1900 - 1993)



Key driver diagram: Purpose

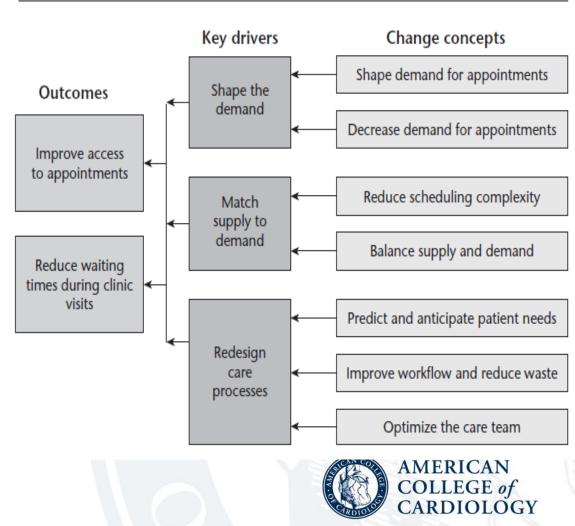
- Organizes the "theory of improvement" for a project
- Helps to focus the selection of changes to test by identifying the key drivers
- Connects the aim/outcome, key drivers, and interventions (change concepts) to create a "Learning Structure"
- Communication tool for your work



A driver diagram is an approach to describing our theories of improvement:

- Used to help organize our theories and ideas in an improvement effort.
- The initial driver diagram for an improvement project might lay out the descriptive theory of improved outcomes that can then be tested and enhanced to develop a predictive theory.
- •The driver diagram should be updated throughout an improvement effort and used to track progress in theory building.

FIGURE B.14. EXAMPLE OF A DRIVER DIAGRAM FOR AN ACCESS IMPROVEMENT PROJECT.



Sample Project Key Driver Diagram (KDD)

Project Leader(s): Sam Smith Revision Date: 01/01/2014 (v1)

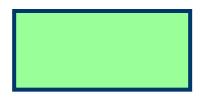
SMART Aim

Population:	

What are you trying to achieve?

That would be your SMART Aim.

Global Aim



<u>Key</u> Gray shaded box = completed intervention Green shaded box = what we're working on right now LOR # = Level of Reliability Number, e.g., LOR 1



Sample Project Key Driver Diagram (KDD)

Project Leader(s): Sam Smith Revision Date: 01/01/2014 (v1) Key Drivers **SMART Aim** Population: **Global Aim**

What are the key elements to achieving that SMART Aim?

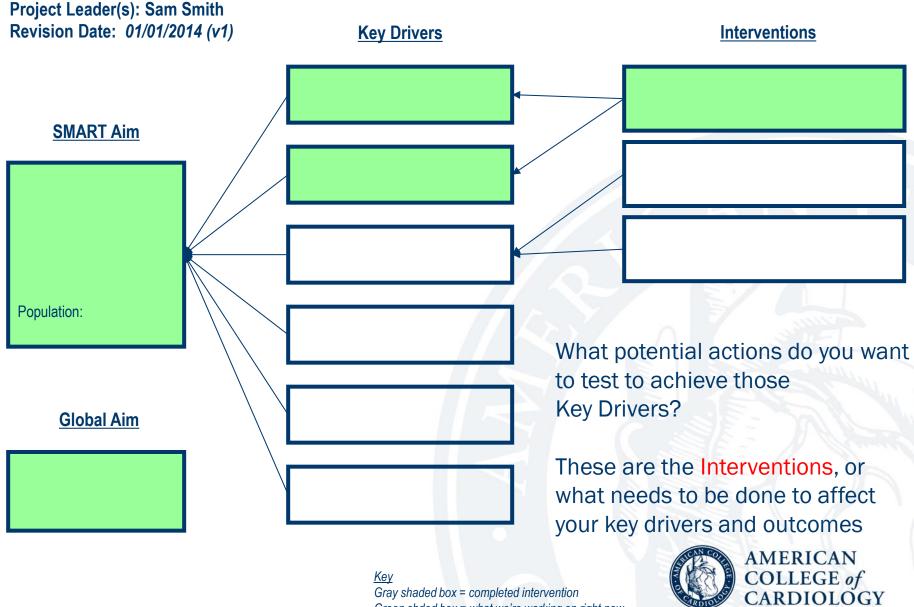
Those are your Key Drivers, the things you believe will ultimately affect your outcome

<u>Key</u>

Gray shaded box = completed intervention Green shaded box = what we're working on right now LOR # = Level of Reliability Number, e.g., LOR 1



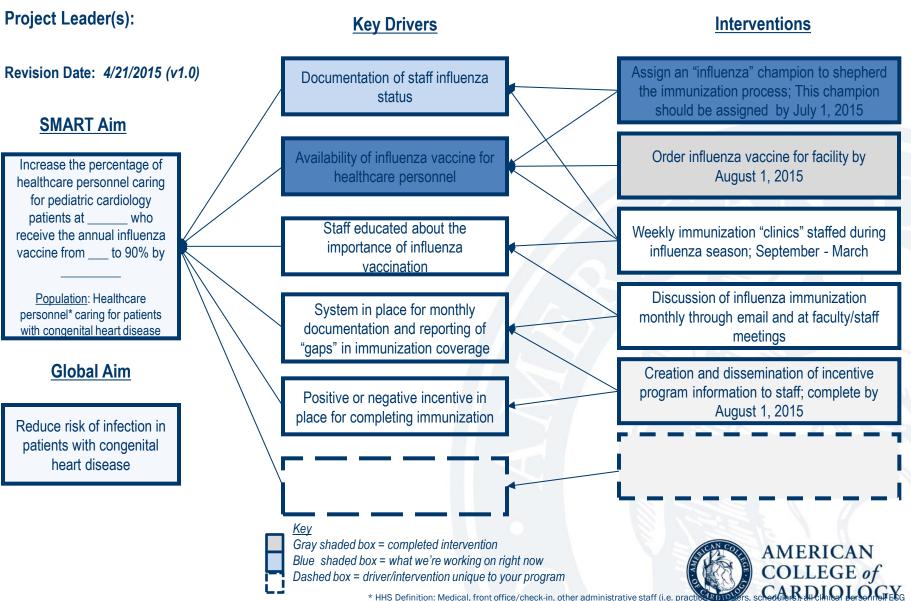
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Gray shaded box = completed intervention Green shded box = what we're working on right now LOR # = Level of Reliability Number, e.g., LOR 1



Improvement in influenza immunization rates among staff at ______ Key Driver Diagram (KDD)



technicians, medical assistants (CNA), LPN, RN, MD, NP, PA, as well as imaging personnel including sonographers, and other healthcare personnel. <u>http://www.hhs.gov/ash/initiatives/hai/hcpflu.html</u>

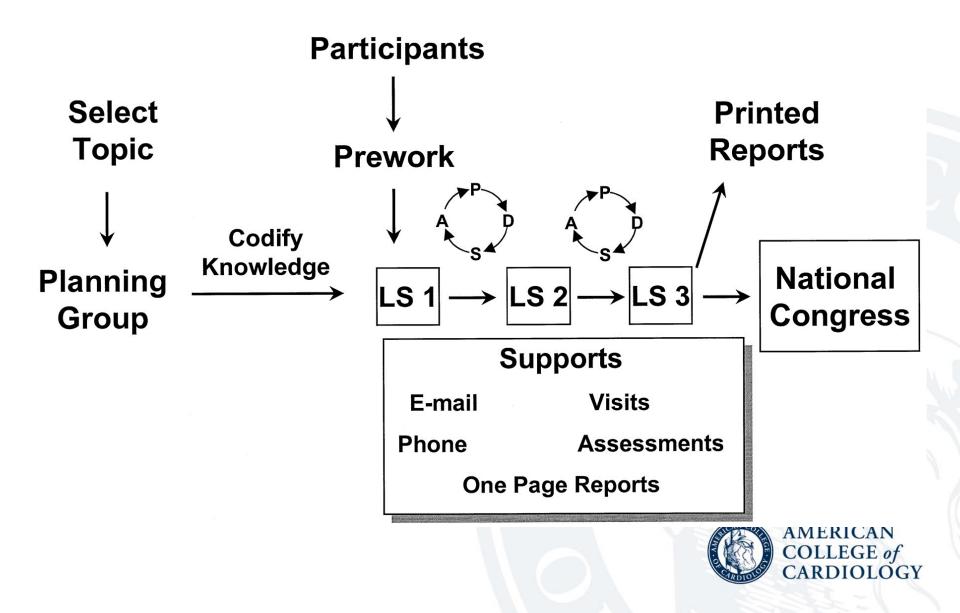
Measurement of metric

- <u>Numerator</u>: number of healthcare personnel who received the immunization vaccination
- <u>Denominator</u>: All *healthcare personnel working in patient care areas and caring for patients seen by cardiology caregivers
- <u>Period of assessment</u>: September 1, 2015
 March 31, 2016



* HHS Definition: Medical, front office/check-in, other administrative staff (i.e. practive of the presence of the personnel of the personnel

IHI Breakthrough Series



Improvement Team Building

- Who?
 - Multidisciplinary
 - Front line
 - Patient and parent centered
- What?
 - Regular meetings
 - Development of Key Driver
 - Development and execution of PDSA cycles
 - Review and digest the data



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Questions?

