

The Long and Winding Road: Moving a Good Idea into Routine Practice

Soon Is Not A Time, Some Is Not A Number, Hope Is Not A Plan

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Vice President Institute for Healthcare Improvement Tuesday, March 27, 2018





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Description

Deprescribing guidelines have the potential to help with the needs of a high performing health care system — including better access, improved quality and greater efficiency. The IHI International Program in Health Policy and Practice Innovations selected deprescribing guidelines as a key innovation to implement in the US. In this presentation, Frank Federico will contextualize deprescribing within the overall patient safety movement and provide an overview of the transferability of the guidelines within the US IHI Innovators Network.



Objectives

- Describe why the implementation of deprescribing guidelines is urgent and important
- Explain how members of the IHI Innovators Network are pilot testing the implementation of deprescribing guidelines



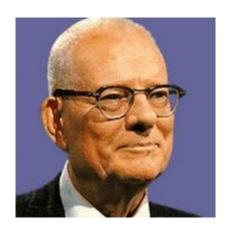


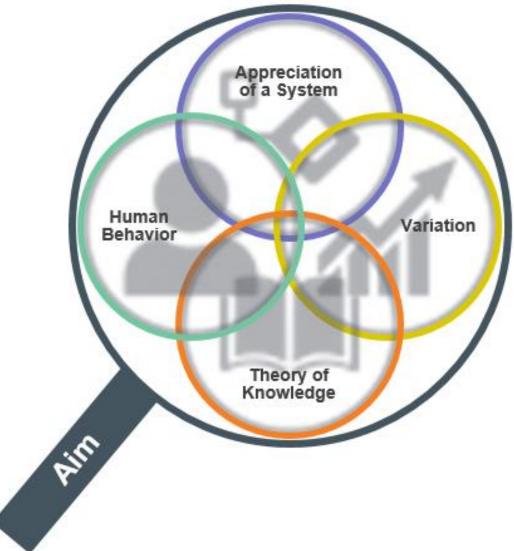
The Science of Improvement

- An applied science that emphasizes:
 - Innovation
 - Rapid-cycle testing in the field, and
 - Spread in order to generate learning about what changes, in which contexts, produce improvements.
- Characterized by the combination of:
 - Expert subject knowledge with
 - Improvement methods and tool
 - Multidisciplinary drawing on clinical science, systems theory, psychology, statistics, and other fields.









Lens of Profound Knowledge





Where to Start

- Start with WHY
- Need to understand why the change is necessary
- The goal is always to build processes to deliver the care that we believe that a patient should receive
- "We are working to help patients"







Medications

- Most common intervention in health care
- Associated with many adverse events
- Reason for ED visits, admissions and readmissions
- Can be a positive force in improving and maintaining health





Why Deprescribing Matters

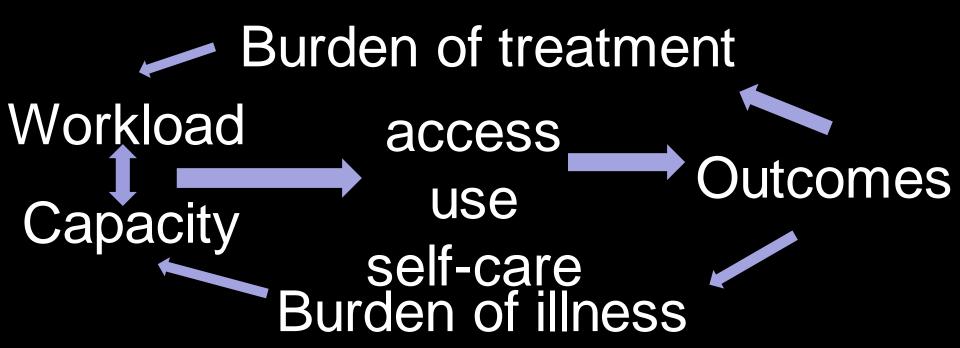
 Deprescribing - reducing or stopping medications that may harm or no longer benefit a patient - decreases the likelihood of an adverse event, and reduces the financial burden of paying for a multitude of medications.







Cumulative complexity model



Outcomes

Improve Medication
Safety by Decreasing
Harm and Errors

Aim:

By When:

Primary Drivers

Engage all layers of the organization

Patient/Family/Caregiver Engagement

Use Systems Approach

Address
Medication Reconciliation

Secondary Drivers

Build Will

Collect Ideas

Reporting Culture Cultivated

High Risk Areas identified

Safety Lessons Learned & Shared

Health Literacy

Mechanism to Listen and Learn from Patients/Families

Patient and Family Engagement & Education

Get Results

Standardized Protocols and Algorithms

Use improvement science

Measurement / Assessment of Processes

Segment the population

Effective Communication and Collaboration within/ between organizations

Reduce Polypharmacy

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Medication Without Harm: WHO's Third Global Patient Safety Challenge

- Medication Without Harm aims to reduce severe avoidable medication-related harm by 50%, globally in the next 5 years
 - High Risk Medications
 - Polypharmacy
 - Transitions in Care
- IHI Focus: Optimization of medications: patient centered, safe efficient, effective and accessible





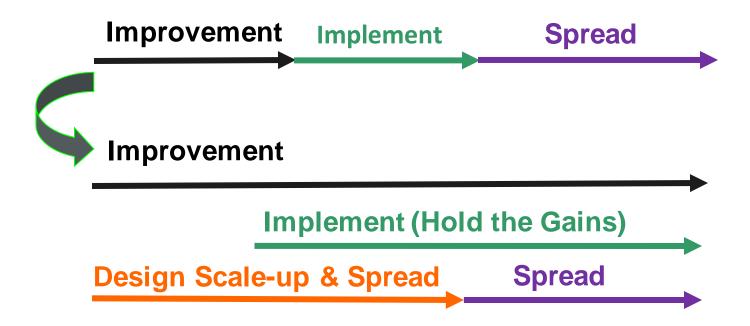
Steps to Succeed

- A clear, measurable aim
- A measurement framework in support of reaching the aim
- A clear description of the
 - Ideas (content) and how these ideas are expected to impact the results (the causal pathway from changes to desired outcomes)
 - Execution strategy (what will be done to ensure reliable adoption of the content?)
- Dedication to rapid testing (PDSA cycles), prediction, and learning from tests
- Understanding, describing, and visualizing systems (e.g., using a process map or value stream map)





Creating a New System







The **Old or** Typical Approach...

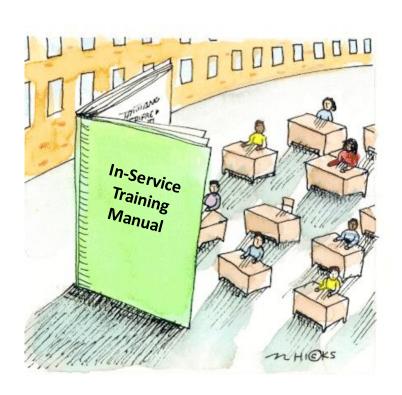






How Can We Foster the Adoption of Successful Spread of New Ideas?

The traditional approaches



MEMO

To: All staff

Subject: Spreading new

ideas

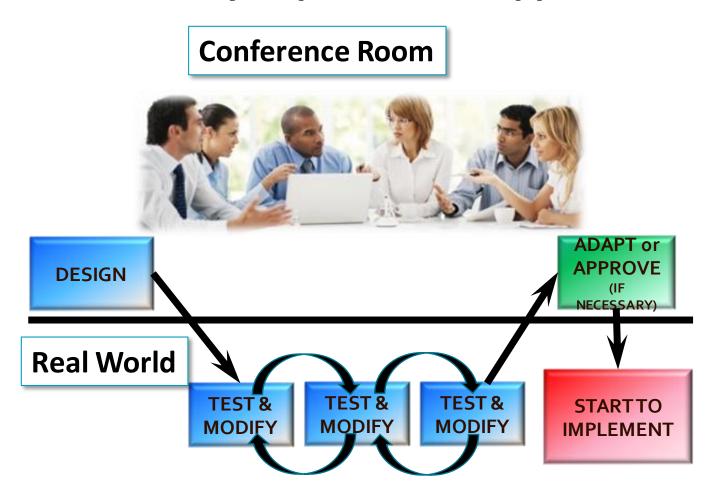
Starting next Monday everyone will follow the new hand hygiene protocol.

Thank you, Management





The Quality Improvement Approach

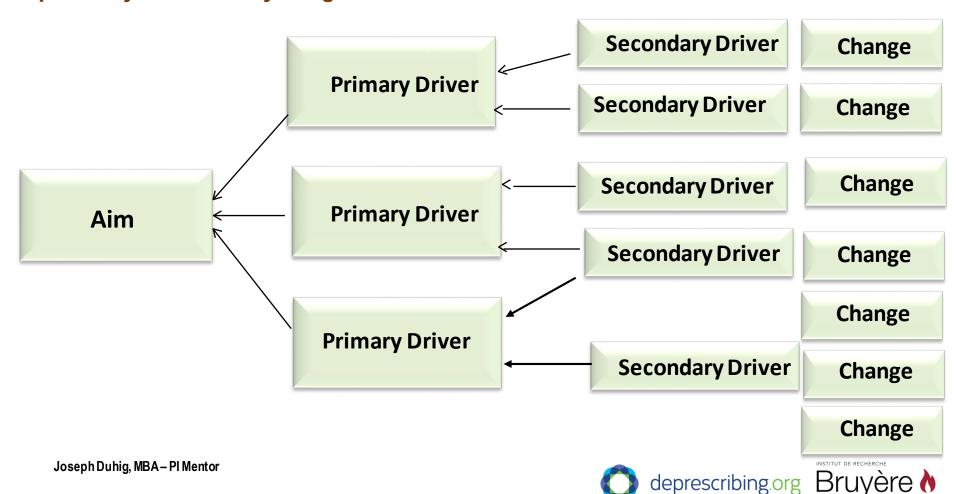






A Driver Diagram Is ...

A pictorial display that helps conceptualize an issue and determine the pathway to achieve your goal







What are we trying to accomplish?

Aim:

How much by when

Example

 Decrease use of PPIs beyond the recommended course of treatment in 50% of eligible patients in the next six months.





What are we trying to accomplish?

Aim:

Increase use of PPI deprescribing algorithm by 75% in eligible patients by Dec 2018.

Process measure in service of the desired outcome.





Balancing Measure

 Number of patients who will have to PPI re-prescribed after deprescribing intervention.



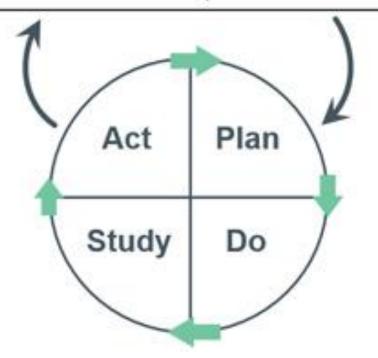


Model for Improvement

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?

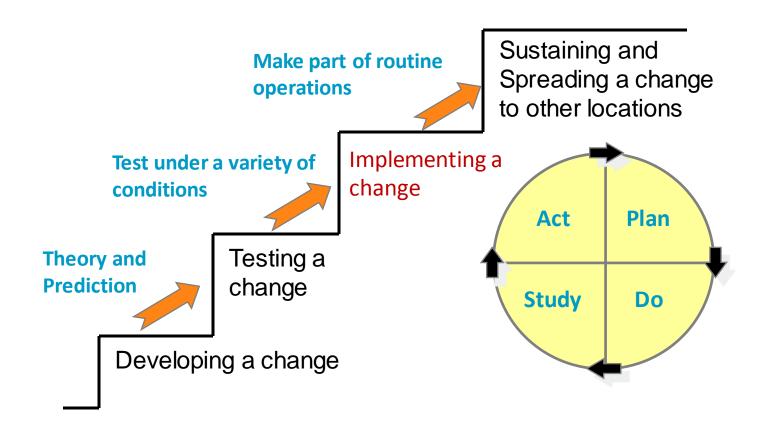


Associates in Process Improvement





The Sequence for Improvement







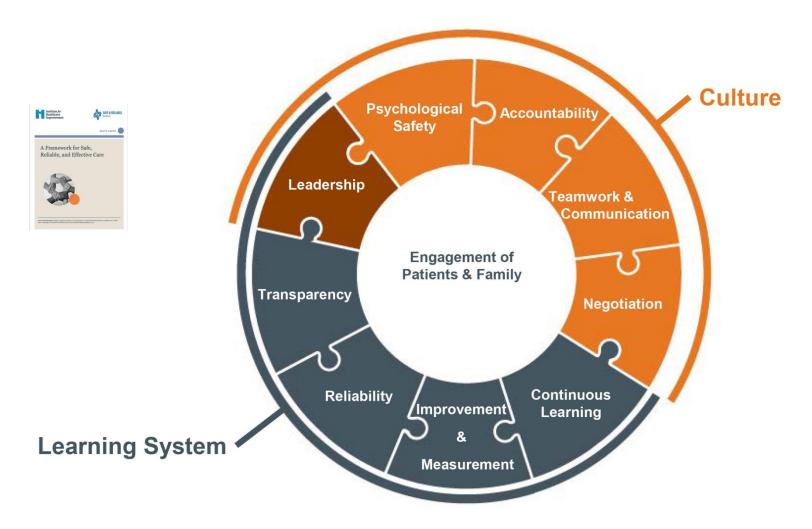
The Three Faces of Performance Measurement

Aspect	Improvement	Accountability	Research
Aim	Improvement of care (efficiency & effectiveness)	Comparison, choice, reassurance, motivation for change	New knowledge (efficacy)
Methods: Test Observability	Test observable	No test, evaluate current performance	Test blinded or controlled
• Bias	Accept consistent bias	Measure and adjust to reduce bias	Design to eliminate bias
Sample Size	"Just enough" data, small sequential samples	Obtain 100% of available, relevant data	"Just in case" data
Flexibility of Hypothesis	Flexible hypotheses, changes as learning takes place	No hypothesis	Fixed hypothesis (null hypothesis)
Testing Strategy	Sequential tests	No tests	One large test
Determining if a change is an improvement	Run charts or Shewhart control charts (statistical process control)	No change focus (maybe compute a percent change or rank order the results)	Hypothesis, statistical tests (t-test, F-test, chi square), p-values
Confidentiality of the data	Data used only by those involved with improvement	Data available for public consumption and review	Research subjects' identities protected

Lief Solberg, Gordon Mosser and Sharon McDonald. The Three Faces of Performance Measurement: Improvement, Accountability and Research. Journal on Quality Improvement vol. 23, no. 3, (March 1997), 135-147.







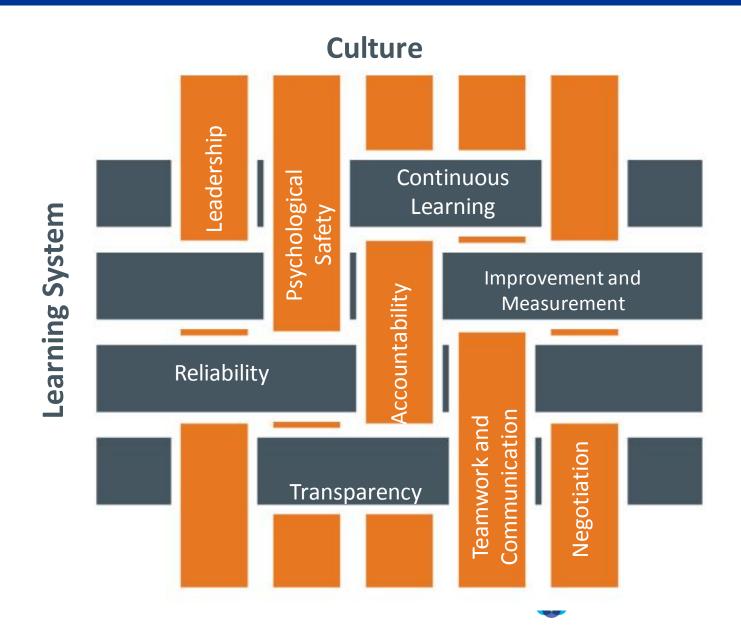
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Framework for Safe and Reliable Care





- How would you apply what you have learned to your work?
- What are the concepts that made you think differently than before and why?
- What's your greatest "take away" learning from this session? Why?
- Any questions?



Adapted University of Illinois College of Medicine



