

# The Model for Improvement

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This presenter has nothing to disclose.

# **Session Objectives**

Participants will be able to:

- Finalize the team's aim.
- Plan and execute tests of change.
- Collect data for improvement.



Key Elements of Breakthrough Improvement

- Will to do what it takes to change to a new system
- Ideas on which to base the design of the new system
- Execution of the ideas



Three Fundamental Questions for Improvement

- 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?



#### Model for Improvement



From: Associates in



#### Repeated Use of the PDSA Cycle



What Are We Trying to Accomplish?

#### Establishing the Team's Aim

- Write a clear statement of aim with numerical goals
  - Make the target for improvement unambiguous
- Guidance
  - Include anything to keep the team focused (location, strategies, patient populations, office systems, spread plans, etc.)

### **Preparing an Aim Statement**

- Involve senior leaders
  - Obtain sponsorship (geared to the project's complexity)
  - Provide frequent and <u>brief</u> updates (practice the 2 minute elevator speech)
- Focus on issues that matter to your hospital
  - Connect team Aim Statement to Strategic Plan
  - Build on the work of others (steal shamelessly!)
- Use patient-centered language
  - If you showed your aim statement to a patient, would they see their needs being met, or just the hospitals?



#### **Example Aim Statement**

By December 2011, St. Elsewhere hospital will improve transitions home for patients on 4W and 5S as measured by a decrease in 30-day allcause readmission rate from 17% to 13% or less.

The pilot units will focus on improving planning for discharge, patient-centered handovers to community providers, post-acute follow-up and improving patients' understanding of self-care.



#### Developing an Aim Statement

Team name:

Aim statement

(What's the problem? Why is it important? What are we going to do about it?)

How good? \_\_\_\_\_\_ By when? \_\_\_\_\_ INSTITUTE FOR

**HEALTHCARE** 

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Post your aim statement on your team's Extranet page

How Do We Know That a Change is an Improvement?

This collaborative is about changing your organization's approach to improving the health of patients

It is <u>not</u> about measurement.

However .....



## Measurement Guidelines

- Need a balanced set of measures reported each month to assure that the system is improved.
- These measures should reflect your aim statement & make it specific.
- Measures are used to guide improvement and test changes.
- Integrate measurement into daily routine.
- Plot data for the measures over time and annotate graph with changes.



#### Some Measurement Assumptions

- The purpose of measurement in the collaborative is for *learning* not judgment
- All measures have limitations, but the limitations do not negate their value
- Measures are one voice of the system. Hearing the voice of the system gives us information on how to act within the system
- Measures tell a story; goals give a reference point



# **Types of Measures**

- Outcome Measures
  - -Results system level performance
- Process Measures
  - -Inform changes to the system
- Balancing Measures
  - -Signal "robbing Peter to pay Paul"



### Outcome Measures: Readmissions Hospital-level AND Pilot-level

<u>Measure</u>	Description				
30-Day All-Cause	Percent of discharges with readmission for any cause				
Readmissions	within 30 days				
Hospital-overall					
Pilot-unit(s)					
Readmissions Count	Number of readmissions (numerator for 30-day all				
Hospital-overall	cause readmissions measure) for hospital and pilot				
Pilot Unit	unit(s)				
Optional Measure	Percent of discharges in the desired subpopulation who				
30-Day All-Cause	were readmitted for any cause within 30 days of				
Readmissions for a	discharge				
specific clinical					
condition or					
subpopulation (e.g.,					
CHF, COPD, frail elders)					



#### Outcome Measures: Patient Experience

Description
<ul> <li>"During this hospital stay, how often did nurses explain things in a way you could understand?" (Q3)</li> <li>"How often did doctors explain things in a way you could understand?" (Q7)</li> <li>"Did hospital staff talk with you about whether you would have the help you needed when you left the hospital?" (Q19)</li> <li>"Did you get information in writing about what symptoms or health problems to look</li> </ul>



#### Patient Experience: Care Transitions Measures PILOT UNIT

Description	Numerator	Denominator	Data Collection Strategy
<ul> <li>The hospital staff took my preferences and those of my family or caregiver into account in deciding what my health care needs would be when I left the hospital.</li> <li>When I left the hospital, I had a good understanding of the things I was responsible for in managing my health.</li> <li>When I left the hospital, I clearly understood the purpose for taking each of my medications.</li> </ul>	Calculate the sum of responses across the 3 items. Responses are scored Strongly Disagree =1; Disagree =2; Agree =3; Strongly Agree =4	Number of questions answered across all patients asked.	Collect data on routine follow up phone calls. Sample 21 patients. If you have less than 21 discharges per month, report 100% Response options: Strongly Disagree, Disagree, Agree , Strongly Agree, or Don't Know/Don't Remember/Not Applicable Do not count in your denominator questions where the patient responded don't know/remember or not applicable If disagree, ask (and document) what their concerns were.



### **Process and Balancing Measures**

Enhanced Admission Assessment for Post-Hospital Needs	<ul> <li>Percent of admissions where patients and family caregivers are included in assessing post discharge needs</li> <li>Percent of admissions where community providers (e.g., home care providers, primary care providers and nurses and staff in skilled nursing facilities) are included in assessing post discharge needs</li> </ul>		
Effective Teaching and Enhanced Learning	<ul> <li>Percent of observations of nurses teaching patient or other identified learner where Teach Back is used to assess understanding</li> <li>Percent of observations of doctors teaching patient or other identified learner where Teach Back is used to assess understanding</li> </ul>		
Real-time Patient- and Family- Centered Handoff Communication	<ul> <li>Percent of patients discharged who receive a customized care plan written in patient-friendly language at the time of discharge</li> <li>Percent of time critical information is transmitted at the time of discharge to the next site of care (e.g., home health, long term care facility, rehab care, physician office)</li> </ul>		
Post-Hospital Care Follow Up	• Percent of patients discharged who had a follow-up visit scheduled before being discharged in accordance with their risk assessment		
Observation admits	Number of admissions to observation status in the month		

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### **Qualitative Patient Experience Data**

- Conduct the diagnostic tool with 4 patients readmitted each month (1 per week). Present findings to the cross continuum team to identify areas for redesign, better communication and improvement.
- Conduct a quarterly in-depth analysis of 1 patient who has experienced frequent readmissions within the year. Include a review of the diagnostic tool and a list of the patient's cross continuum care history with a timeline. For example, a diary or log of discharges, subsequent visits to the doctor, etc. Review at the cross continuum meeting.



What Changes Can We Make That Will Result in Improvement?

- The collaborative "change package" contains the key elements of high performing system
- Use the change package to identify the changes you want to make to your system to achieve your aim



Change Concept: A general notion or approach to change that has been found to be useful in developing specific ideas for changes that lead to improvement.



#### Model for Improvement



From: Associates in





# The PDSA Cycle Testing and Implementing Changes





# Use the PDSA Cycle for :

- Testing or adapting a change idea
- Implementing a change
- Spreading the changes to the rest of your system



# The PDSA Cycle

Why Test?







- Increase the belief that the change will result in improvement
- Predict how much improvement can be expected from the change
- Learn how to adapt the change to conditions in the local environment
- Evaluate costs and side-effects of the change
- Minimize resistance upon implementation



# The PDSA Cycle



### Repeated Use of the PDSA Cycle



#### Change Idea: actively include pt and family in assessing needs (specifically, identify the learner on admission, and include them in discharge planning)



Successful Cycles to Test Changes

- Plan multiple cycles for a test of a change
- Think a couple of cycles ahead
- Scale down size of test (# of patients, location)
- Test with volunteers
- Do not try to get buy-in, consensus, etc.
- Be innovative to make test feasible
- Collect useful data during each test
- Test over a wide range of conditions



# Testing on a Small Scale

- Have others that have some knowledge about the change review and comment on its feasibility
- Test the change on the members of the team that helped develop it before introducing the change to others
- Incorporate redundancy in the test by making the change side-by-side with the existing system



# Testing on a Small Scale

- Conduct the test in one facility or office in the organization, or with one patient
- Conduct the test over a short time period
- Test the change on a small group of volunteers
- Develop a plan to simulate the change in some way



# The PDSA Cycle



M		′CLE:	DATE:_
A S PLAN QUESTI	P D Objective for this PDSA Cycle D N: N:		
PREDICT	TIONS:		
PLAN FC	OR CHANGE OR TEST: WHO, WHAT, WHEN, WHERE		
PLAN F	OR COLLECTION OF DATA: WHO, WHAT, WHEN, WHERE		
DO: c#	ARRY OUT THE CHANGE OR TEST; COLLECT DATA AND BE	EGIN ANAL	YSIS.
STUD	Y: COMPLETE ANALYSIS OF DATA; SUMMARIZE WHAT W	AS LEARN	IED.
ACT: /	ARE WE READY TO MAKE A CHANGE? PLAN FOR THE NE	XT CYCLE.	

#### Form for planning a PDSA cycle

# Failed Test...Now What?

- Be sure to distinguish the reason:
  - Change was not executed
  - Change was executed, but not effective
- If the prediction was wrong <u>not a failure</u>!
  - Change was executed but did not result in improvement
  - -Local improvement did not impact the secondary driver or outcome
  - —In either case, we've improved our understanding of the system!



#### **Overall Aim: Reduce Readmissions**



Enhanced Assessment Teaching and Learning Handoff Follow-up Communication



# The Steps To Change



### **PDSA Cycle Measures**

- In addition to the family of measures reported each month in the Collaborative, specific data will be required to determine and document the success of your PDSA tests and implementation cycles:
  - Collect useful data, not perfect data the purpose of the data is learning, not evaluation
  - Use a pencil and paper until the information system is ready
  - Use sampling as part of the plan to collect the data
  - Use qualitative data rather than wait for quantitative
  - Record what went wrong during the data collection



Successful Teach-back Rate Aug 06 - Jul 10 (4 questions)



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Updated 10/1/10

#### PDSA Cycle Measure

% of time the patient medication list from the hospital matches the pts bottles at home.



### Accelerating Learning and Improvement

•What cycle can we complete by next Tuesday?

•Willing to compromise on scope, size, rigor, and sophistication, but the cycle must be completed by Tuesday.

