Starting a QI initiative

Starting a QI initiative Forming your team

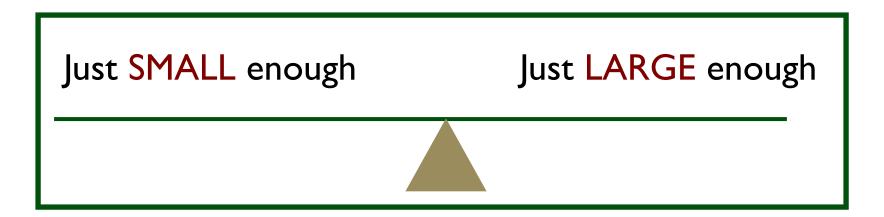
NOTE: We recommend that core team members develop a QI initiative together.

Do I really need to work in a team?

- □ Complex system/process
- □ Involves >1 department/discipline
- ☐ Knowledge about the process held >1 person
- Need creativity or differing perspectives
- Need commitment or buy-in to be successful

Team composition

- Inter-professional
 - Include anyone who "touches" the process



- 6-10 CORE team members
 - Some processes may need sub-teams

Data lead Administrator Content QI expert expert CORE Team Project lead Patient



Structured team meetings

GOAL	Actions
Be Prepared	Be organizedStart & end on timeHave an agenda
Know Norms	Document & value all input/opinionsBuild consensusKeep people on track
Understand Attitudes	Stay positiveAppreciate otherCelebrate successes
Communicate	Team & organizationDoesn't need to be 1 hour

Starting a QI initiative Identifying the problem

NOTE: We recommend that core team members develop a QI initiative together.

Aim	New knowledge	Improvement in care
Test	Blinded or controlled test	Observable test
Bias	Design to eliminate bias	Accept consistent bias
Sample size	Just in case data	Just enough data, small sequential samples
Hypothesis flexibility	Fixed hypothesis	Hypothesis flexible & changes as learning takes place
Testing strategy	One large test	Sequential tests

Improvement

Run charts or

Control charts

Data used only by those involved

with improvement

Research

Lloyd CR. Navigating the Turbulent Sea of Data: The Quality Measurement Journey. Clinics in Perinatology, 2010. 37(1): 101-122.

Hypothesis tests,

statistical tests,

p values

Research subject

identities are protected

Determining if a

change is an

improvement

Data confidentiality

QI in healthcare

Quality is defined...^{1,2}

What & how well something is done

AND

Doing the **right** \rightarrow delivering needed healthcare thing services

At the **right time** \rightarrow when patients need them

In the right way

using appropriate tests/procedures

^{1.} Oh W, Berns SD, Blouin AS, Campbell DE, Fleischman AR, Gluck PA, O'Kane ME, Santa-Donato A, Simpson KR, Stark AR, Wachtel JS. Toward Improving the Outcomes of Pregnancy III. March of Dimes. August 2011.

^{2.} Institute of Medicine. Shaping the Future for Health. To Err is Human: Building a Safer Health System. Washington, DC: National Academy Press, 1999.

Variation is everywhere

Goals

- Understand variation
- Control degree of variation
- Minimize its impact

Decrease variation

- → deliver service in a **predictable** manner
- → produce a **predictable** & **reliable** result

Selecting the *right*

opportunity for improvement

- What is the problem?
 - Is it important/relevant?
 - How long has it existed?
 - Who does this problem affect?

What story do you want to tell?

· How do you know it's a problem?

- Is it obvious to most people?
- Can you prove it is a problem?

What kind of data do you need to tell the story?

What will fixing the problem solve?

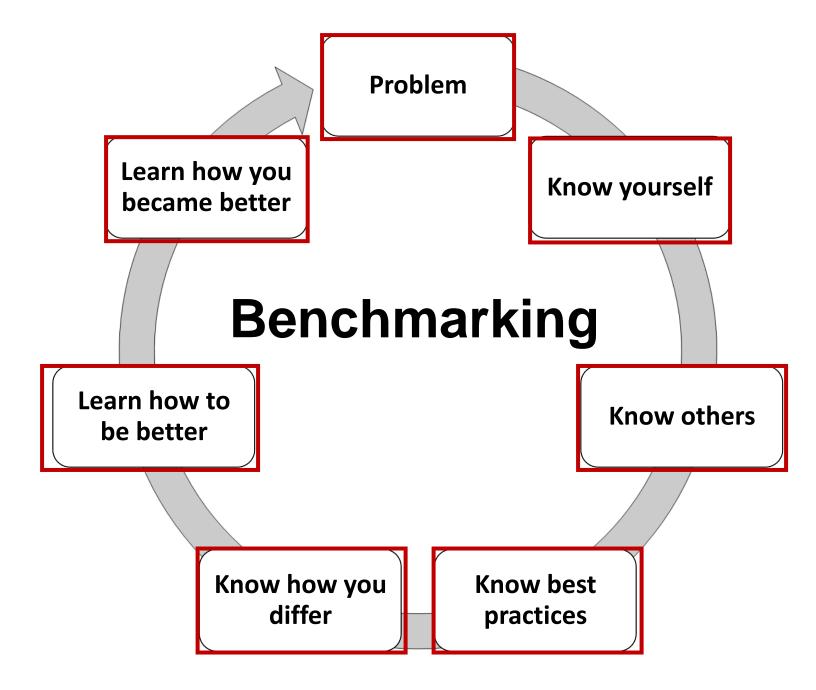
- How does it impact your unit/hospital?
- Are there potential cost/resource savings?

What's in it for me?

Value of standardized processes

Processes should be standardized before improvement can begin

- Baseline for QI activities
- Where is a process?
- Where is the process going?
- How is the process getting there?



Creating a Problem Statement

- Commonly used in Academic & Quality / Performance improvement methodologies
- Serves to center & focus the team to "stay on track"
- Should meet the following criteria:
 - Focused only on one problem
 - Represent a solvable problem, but does not offer solutions
 - Clear & concise (1-2 sentences)
 - Devoid of assumptions

Examples of a problem statement

Last month's random audit of hand washing among physicians and nurses in the NICU demonstrates a 30% compliance rate. This is of significant concern because poor hand hygiene has been associated with an increased risk of hospital-acquired infections.

Problem statement criteria

- ✓ Focused only on one problem
- ✓ Represent a solvable problem, but does not offer solutions
- Clear & concise (1-2 sentences)
- Devoid of assumptions

Examples of our problem statement

In 2017, 9% of infants ≥34 weeks GA received empiric antibiotics for 48 hours while awaiting blood culture results either in the Newborn Nursery or NICU setting at TGH, regardless of their clinical appearance. This is important because altering the infant's microbiome with antibiotics leads to MDROs, as well has having implications for immune and metabolic function.

Problem statement criteria

- ✓ Focused only on one problem
- ✓ Represent a solvable problem, but does not offer solutions
- ✓ Clear & concise (1-2 sentences)
- Devoid of assumptions

Develop your project's problem statement

Starting a QI initiative

Developing the aim statement

SMART Aim statements

Specific

Measureable

Actionable/Agreed upon

Relevant

Time bound

Results
are only as good as
the type of question
asked & how it is

Set realistic goals

- Data may not exist yet
- Goals can change

If I had 1 hour to save the world,

I would spend 55 minutes defining the problem
and only 5 minutes finding the solution."

Albert Einstein

Define a SMART AIM statement

S	Specific	By 4/2017, ≥ 50% of mothers delivering infants ≤30 6/7 weeks <i>or</i> ≤1500 g at TGH will have 1 st pumping session occur ≤6 hours of life
M	Measureable	
A	Actionable/ Agreed upon	
R	Relevant	
T	Time bound	

^{*}It should also include a time frame, major contributor, gap between current & desired state, impact on the organization.

^{*}Many times no data at this stage → target 50% improvement & revisit

Examples of AIM statements

- Through implementation of an EMR, our patients at risk for pressure ulcers will get better care.
- We will create a truly interdisciplinary team to provide specialized patient-centered care for those with pressure ulcers.
- We will improve the prevention of pressure ulcers for patients in our hospital. By May 2015, we aim to decrease the prevalence and incidence of pressure ulcers by 75%
 - Prevalence from the current 20% to below 5%
 - Incidence from the current 10% to below 2.5%

Specific
Measurable
Actionable/Agreed upon
Relevant
Time boundc

Example of our aim statement

By 6/2018, we will have an ≥30% reduction in antibiotic use in the first 3 days of life for ≥34 week GA infants who are admitted to the TGH Newborn Nursery or NICU and whose mother had a diagnosis of chorioamnionitis and/or qualified for GBS intrapartum antibiotic prophylaxis (IAP) (from 9% to 6%).

Specific
Measurable
Actionable/Agreed upon
Relevant
Time bound

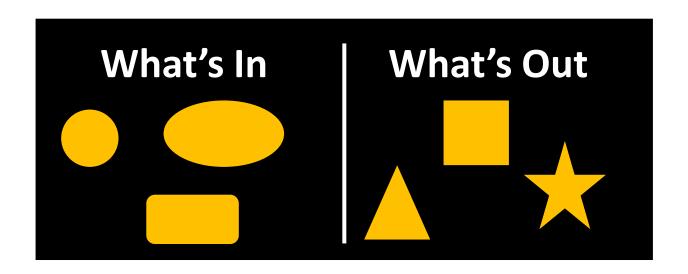
Develop your project's aim statement

Starting a QI initiative

Identifying project scope

Clearly define the scope

- Boundaries of the process in a project
 - Helps team stay focused
 - "Scope creep" → project failure
 - Be clear about what is included & is not included



EOS initiative

<u>INCLUDES</u>

- ≥34 0/7 week GA
- Inborn
- Mother with diagnosis of chorioamnionitis and/or qualified for GBS IAP

PROCESS SCOPE START

Infant born

DOES NOT INCLUDE

- Major congenital anomalies
- Surgical conditions
- Outborn

PROCESS SCOPE END

Infant 3 days of life

PROCESS	PROJECT
Start: Birth Stop: 3 days of life	Include: ≥34 0/7 week GA, inborn, mother with diagnosis of chorio and/or qualified for GBS IAP Exclude: major congenital anomalies, surgical conditions, outborn

Identify your project's scope

Scope in Section 6 (page 12) Examples in Appendix E (page 33)