

INCORPORATING CQI TO IMPROVE CLINICAL PRACTICE

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Defining Quality Improvement in Healthcare

- Quality improvement seeks to:
 - Standardize processes and structure
 - Reduce variation
 - Achieve predictable results
 - Improve outcomes for patients, healthcare systems, and organizations.
- Providing an environment of safety for both patients and practitioners
- Providing Quality Care to all patients

Quality Improvement in Healthcare

- Framework by IOM
 - Safe
 - Effective
 - Timely
 - Efficient
 - Equitable.
 - Patient-centered
- Shift in focus
- Individual responsibility
- System
- Advancement in technology
- Amount of data available

Advancing the Culture of Patient Safety and Quality Improvement

[Thomas E MacGillivray](#)¹

What is Quality Improvement in Healthcare?

Danielle Gagnon
Jan 28, 2022

Congenital Heart Disease Statistics

- 1% of live births in the United States
- 75% are expected to survive one year
- 69% are expected to survive to 18 years of age
- Adult congenital population 5% per year
- More over the age of 20



Quality Improvement in Congenital Heart Surgery

- Improved outcomes
- Less variability between institutions
- Prioritizing QI and Patient Safety
- Culture
- Commitment
- Participation

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Quality Improvement in Congenital Heart Surgery

Timothy W. Pettitt, MD

Culture

- Focus on improving the system, not the mistakes
- Focus on outcomes, not just the processes
- Pay attention to underlying systems
- Listen to patients
- Have leaders and clinical staff integrally involved

Commitment & Participation

- M&M conferences
- RCA
- QI Review
- National Databases
 - STS
 - CardioAccess
 - Pedi Perf Form
 - ELSO



Quality Improvement in Perfusion

- Actively involved in Quality Improvement?
- Continuously updating and changing clinical practice?

Improve Clinical Practice

- Improvement
 - Processes
 - Systems of Care
- Patient Safety/Harm Prevention
- Validate current practice
- Standardize practice

Motivated for Change

- Team Motivation
- Time
- Resources
- Knowledge
- Ideas



What Motivates Your Team?

- Support
- Incentives/Rewards
- Foster Ideas
- Positive Feedback
- Flexibility



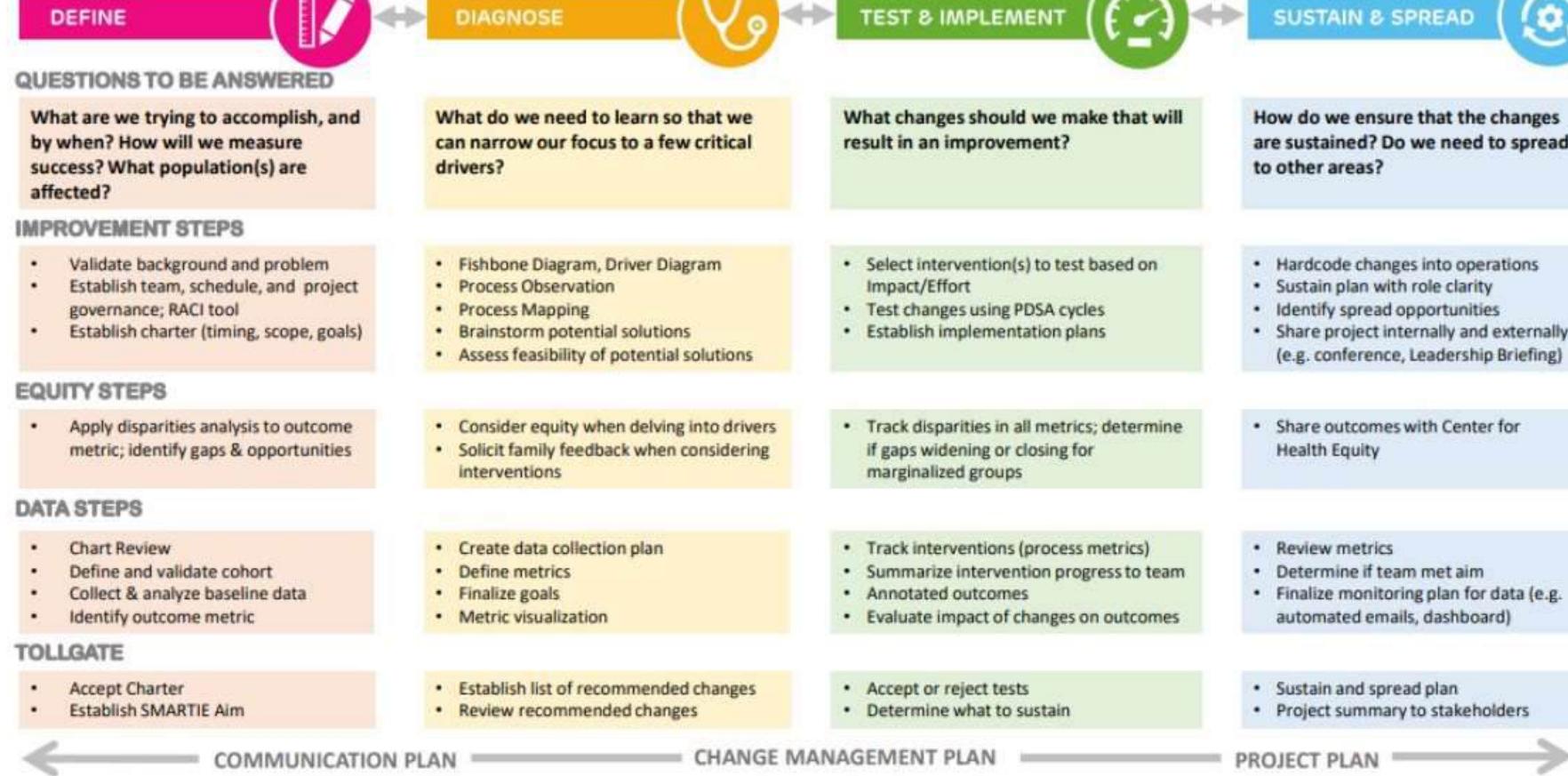
Resources: Hospital Systems

- Patient Safety
- Harm Prevention
- Medication Safety
- Data Analytics
- Human Factors
- Clinical Pathways
- Simulation
- Quality Improvement



CHOP IMPROVEMENT FRAMEWORK

LAST REVISED 4/17/2023



Resources within the Cardiac Center

- Cardiac Center Quality and Safety
- Patient Safety Officer-Nursing
- Quality Improvement Coordinators
- Perfusion Coordinator
 - Point person to help manage and facilitate projects within the department
 - Represent in multidisciplinary projects



How Can We Improve Clinical Practice with QI?

- Quality of care
- Safety of our practice
- Technology for efficiency and productivity
- See improvements in the outcomes of our patients

Ideas?!

New Ideas

- Conferences
- Colleagues
- Work Experiences

Old Ideas

- Expand on previous project
- Ideas that evolved from new protocols or an OR experience



Project Ideas and the 'Why?'

Monthly Chart Review

Standardizing data in charts for accuracy related to the national database
-Rich

Simulation

Give everyone on the team hands on time with all devices
-Justin

Cell Saver

Standardize the product produced to maximize Hct and patient benefit
-Celia

Alpha Stat vs pH Stat

Standardize practice
-Brandon

Project Ideas and the 'Why?'

Arterial cannula project

Validate when we step up cannula sizes & improve upon current practice

-Justin

Data Driven Initiative

To help perfusionists optimize management decisions & improve patient outcomes

-Dave

Methyl Pred

Validate whether steroids improve
Led to practice change and published the data

-Molly

Blood Product Waste

Save valuable resources

-Kellie

Goal of Quality Improvement



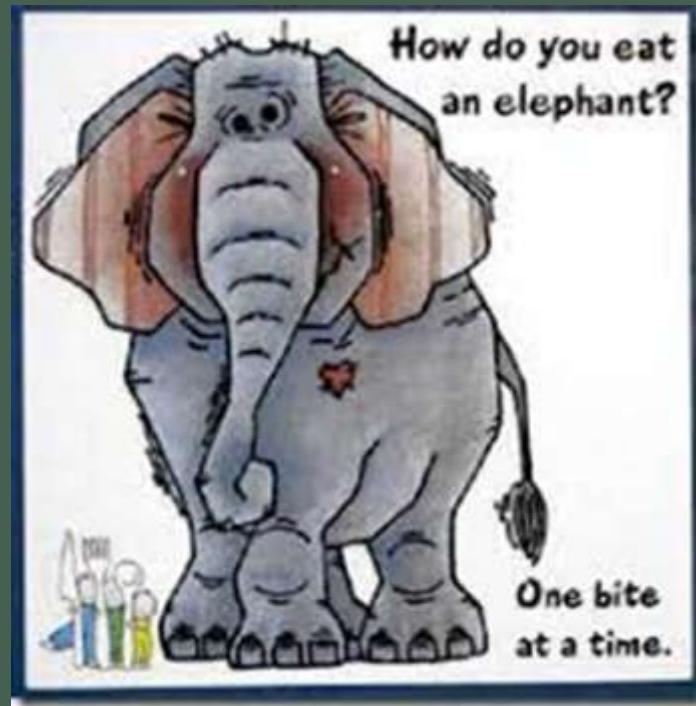
- Reducing adverse events
- Reducing errors
- Efficiency in techniques
- Improving standards to practice
- Evaluating Technology and Equipment



Improving Patient Outcomes



Food for Thought



THANK YOU

Questions?
Project Ideas?