

EIIC Coffee Data Team March 26, 2024



Cleveland | Ohio



Measurement for Quality Improvement

- You can't improve what you can't (or don't) measure
- A critical enabler in achieving desired improvement goals is the ability to measure improvement
- Measures tell a team if the changes they make are making a difference (and if the difference is an improvement)





Measures Used in Health Care

Donabedian Framework

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Measures Used in Health Care

Balancing Measures

- Looks at the system from a different direction or dimension
- Are the changes designed to improve one part of the system causing a new problem in other parts of the system?







Measure Summary

Type of Measure	Description	Perioperative Example
Outcome	 A voice of the patient (effect of healthcare delivery on patients/populations) How the system is performing? What is the result? 	 Percentage of patients harmed Percentage of unplanned returns to the emergency room (mental behavioral conditions)
Process	 The voice of the workings of the process/system (actions that make up healthcare delivery) Logically linked to obtaining the outcomes Address how key parts or steps of the system are performing 	 On time follow-up for mental health treatment after hospital discharge. Enroll more providers to the program enabling greater volume of patients effectively improving access to care, reducing readmits.
Balancing	 Look at the system from different directions or dimensions (i.e. any unanticipated effects?) What happened to the system as we improved the outcome and process measures? Could be related to unintended consequences or competing explanations for project success 	Consult Line and enrollments



Developing Improvement Project Measures

1. Basic Information

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- Name of Measure
- Objective of Measure
- Numerical Target or Goal
- Type of Measure: Outcome, Process, or Balancing

2. Operational Definition of the Measure

- What actual data elements need to be collected? Define the numerator and denominator, if appropriate.
- Is this definition different from standard definitions used in other places? Benchmarks?
- List inclusions & exclusions to the data you will collect.
- Will you sample to obtain the data? If so, describe the sampling plan.
- Define the measurement unit for each data element. (ex. Length of Stay in days, hours, or minutes?)
- If the data involves making a judgement such as "late" or "appropriate," list the criteria for making this judgement.



Developing Improvement Project Measures

3. Administration

- Where are the data located?
- How frequently will you measure? (ex. daily, weekly, monthly)
- Who will collect the data?
- How will the data be displayed? What graph(s) will be utilized?
- Who will make the graph(s)?
- Who will review the graph(s) and in what setting? How often?

4. Additional Information

- Do you have baseline data for this measures? If yes, what is it and what time frame is it from?
- What other measures will complement this measure as part of the measurement set for the improvement project.





Deriving Meaning from Data



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Defining a Numerator & Denominator

Using a ratio or rate minimizes confusion from variation in the data which may be a result of changes in volume of workload rather than changes in the key measures.

Numerator: the key measure

Denominator: some appropriate unit of production or volume

Key Measure	Standard Unit	Possible Ratio Measure
# of consults completed by the pr ovider with the PMHCA program	Total enrolled providers in the PMHCA program.	# consults completed/ total enrolled providers
# of readmitted patients	# of patients discharged	Readmits/ total discharges



How to Compute a Rate



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Understanding Multipliers

Per 100, 1000, 200000? Why do we do this?

205 CLABSIs and 163,418 central line days

- Instead of... 0.001254 CLABSIs per central line days
- Better... 1.254 CLABSIs per 1,000 central-line days

4 consults and 345 enrolled providers

- Instead of... 0.01159 consults per enrolled provider
- Better... 1.159 consults per 100 enrolled providers







$$\frac{205}{163,418} \bullet 1,000 = 1.254$$

Live Example Activity!







Next TA Webinars

May 2Office Hour: Meet with a QI Coach and
Data Analyst: Considerations for Data
Software Platforms

3pm - 4pm ET/ Zoom link

- May 7Webinar: Pediatric Needs During Times of2pm 3pm ET / Zoom linkDisaster Part 2 with Trevor Covington
- May 14Webinar: Presenting Your Work Publicly –4pm 5pm ET / Zoom linkHow to Create an Abstract and PosterHow to Create an Abstract and PosterPresentation with Dr. Snyder

Any Questions?

Please reach out to <u>Anna.Goldman@UHhospitals.org</u> or <u>jen@essential-pm.com</u>