

Quality Improvement Basics

Data Collection and Monitoring

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Objectives

After completing this module, participants will be able to

- Ask questions to help select appropriate measures for a quality project
- Discuss data collection method options
- Develop a data collection and monitoring plan

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- What is the problem you have identified and how do you know it is a problem?
- What can you measure that will help you evaluate if your interventions had an impact and if the interventions are being implemented as intended?
- Who is interested in this problem and what information or data will be most meaningful to them?
- Are you able to collect the desired data?



Data Collection and Monitoring Plan



QI Basics

Data Collection and Monitoring Plan


The QI Data Collection and Monitoring Plan is a tool to keep track of one or more measures that you wish to monitor for your quality improvement project.

How to Use

For each measure, determine if you should be measuring, monitor the question in the gold. The information gathered from this question will help you determine how best to track, collect, and measure or indicate that you are checking, you wish to include all individuals in one table and not this so we cannot put that could be completed by the process conducting QI activities in your organization. Alternatively, you may choose to use this table for individual measures or groupings of measures that are the target for specific improvement efforts.

- What are we measuring? What is the measure of the measure, how do we refer to it internally and not there any other way to collect the data to it?
- What are the measures specifically? What are the measures, including population of interest, and how are we measuring them?
- What is the data collection strategy? Who is collecting the data, where they are collecting it, and how are we collecting it?
- What is our baseline performance? Enter the baseline for the measure if known.
- What are the improvement goals? Enter your targeted performance goal for each measure here.
- What are measures for monitoring the measure? Include names of individuals/team members responsible for monitoring the measure and/or ensuring that the team monitors the measure.
- How frequently will the data be monitored and how long? Indicate the frequency with which you will pull data and monitoring the measure, and the duration of monitoring at all.
- What are the measures for analyzing the measure? Indicate the frequency with which you will analyze the data and/or ensuring that the team analyzes the data for each measure.
- What are the measures for reporting the measure? Indicate the frequency with which you will report the data and/or ensuring that the team reports the data for each measure.
- What are the measures for the certification/benchmark? Indicate how you will be collecting the data at a more detailed level (by table, on the next page for your reference).

An example is included in the table on the next page for your reference.



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Name and Define the Measures

- Measure name
- Definition
 - Including population and exclusions
 - Numerator
 - Denominator

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Data Collection Strategy

	Example 1	Example 2	Example 3
Who is collecting the data?	Physician	Survey vendor	Nurses
When are they collecting it?	Patient encounters	Weekly	Daily rounds
How are they collecting it?	Data entry	Phone surveys	Paper checklists
Where is it being kept?	EHR	Third-party platform	Charge nurse collection

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Data Collection Methods

- Tally sheets
- Checklists
- Questionnaires
- Feedback interviews
- Observation
- Daily reviews
- Chart audit
- Data obtained from existing databases and systems



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Sampling



- May speed learning and improvement
- Need enough data to make a sensible judgment about the process or system
- Sampling involves deciding how much and which data to collect to aid the improvement effort
 - Sometimes it makes sense to collect all the data (small numbers)
 - When working with a great deal of data, it makes sense to sample

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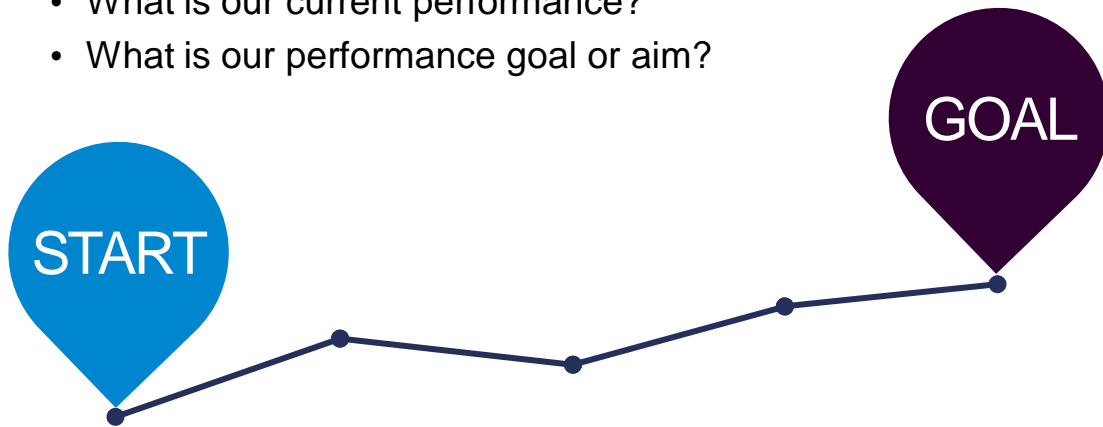
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Baseline Performance and Goal

- What is our current performance?
- What is our performance goal or aim?



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Monitoring Plan

- Who is responsible for monitoring the measure?
 - Who will ensure the team monitors performance on a routine basis
- How frequently will the data be monitored?
 - Goal is to understand the impact of the change
- And for how long?
 - Generally, longer than you would like
 - Need to make sure process change and impact are sustained

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Data Display and Stratification

- How will you track and display data findings?
- What, if any, stratification will be applied when analyzing performance?



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In Summary

- Teams can consider key questions to help in identifying measures for their quality projects including – What is the purpose in collecting data? What are we trying to understand? Who will use the data and how?
- There are numerous methods available for collecting data with differing levels of resources needed.
- Developing a data collection and monitoring strategy involves answering questions that will clarify the who, what, where, when, and how of data collection and monitoring activities.

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Stratis Health is a nonprofit organization that leads collaboration and innovation in health care quality and safety and serves as a trusted expert in facilitating improvement for people and communities.

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