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Better Quality Through Better Measurement OCC

Faculty/Staff

Jesse McCall, MBA, Senior Director and Improvement Advisor, IHI Robert Lloyd, PhD, Vice President Improvement Science, IHI Rebecca Steinfield, MA, Senior Project Director IA Program, IHI Francessca Keeling, Associate Program Manager, IHI

Questions

What questions do you have about the program that you are hoping to have answered today? Please put them in the chat and we will try to get through as many as we can on today's call!





Improving Care Improving Lives with You



ihi.org

Our Mission

To improve health and health care worldwide

Our Vision

Everyone has the best care and health possible

Our Values



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Since 1991

In large systems and small villages, we have taken improvement methods originally used in the manufacturing industry and applied them to improving all aspects of health and health care.

We build improvement capability by providing people with methods and tools to make care better.



Working alongside you to improve health and health care worldwide!



Better Quality Through Better Measurement



Learning Objectives

- 1. Describe the concepts and methods of measurement for improvement
- 2. Apply the steps/tools in the quality measurement journey to a system you are improving
- 3. Design a family of measures
- 4. Construct effective data collection plans that incorporate stratification and sampling methods
- 5. Design run and control charts to analyze data for improvement
- 6. Distinguish common and special cause variation in data

Continuing Education

This program is approved to provide 12 credits for physicians, nurses, pharmacists, and Certified Professional in Patient Safety (CPPS) recertification.

The Institute for Healthcare Improvement designates this blended learning activity for a maximum of 12 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity. This activity may also be applicable for other professions that accept *AMA PRA Category 1 Credits™*.

JOINTLY ACCREDITED PROVIDER[™] INTERPROFESSIONAL CONTINUING EDUCATION

A growing list of countries accept ACCME-accredited education.

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Who Attends?

This online course is open to professionals familiar with quality improvement methods interested into taking a deeper look into measurement

- Quality Leaders and Managers
- Chief Quality Officers
- Patient Safety Officers/Executives
- Data Analytics Staff

The IHI Program Team



Jesse McCall Program Director Lead Faculty



Robert Lloyd Lead Faculty



Rebecca Steinfield Support Faculty



Francesca Keeling Program Manager



Measurement is Central to Improvement

- The purpose of measurement in QI work is for *learning not judgment!*
- All measures have limitations, but that does not negate their value for learning
- You need a set of 3-8 measures reported daily, weekly or monthly
- Measures should be linked to the team's Aim.
- Measures should be used to guide improvement and test changes.
- Measures should be integrated into the team's daily routine and make use of existing databases when possible



Chat Question...

What is your biggest challenge around measurement?

Measurement ditches

- Overambitious plans
- Unclear operational definitions
- Measure is not sensitive enough to capture improvement
- Unclear/insufficient sampling plans
- Measures not linked to improvements
- Plans did not factor in analysis and collection roles
- Data collection plans hard to implement
- Trouble with analysis
 - Skill level
 - Missing data



A mixed-methods study of challenges experienced by clinical teams in measuring improvement. Woodcock, Liberati & Dixon Woods, BMJ Qual Saf August 2019

Milestones in the Quality Measurement Journey (QMJ)





for Improvement:				
oncept	Potential Measure(s)	Outcome	Process	Balancing





Building a Measurement System that Works!



Three uses of time series charts



1. Make process performance visible

2. Determine if a change is an improvement



3. Determine if we are holding the gains



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A Run Chart!



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A Control/SPC/Shewhart Chart!



Why are Control Charts preferred over Run Charts?

Because Control Charts...

- 1. Are more sensitive than run charts
 - A run chart cannot detect special causes that are due to point-to-point variation (median versus the mean)
 - Tests for detecting special causes can be used with control charts
- 2. Have the added feature of control limits, which allow us to determine if the process is stable (common cause variation) or not stable (special cause variation).
- 3. Can be used to define process capability.
- 4. Allow us to more accurately predict process behavior and future performance.

Course Topics

- Lesson 1 Why are you measuring? Introduction to the Quality Measurement Journey
- Lesson 2 Aims, Moving from concepts to measures, Operational Definitions
- Lesson 3 Understanding variation
- Lesson 4 Run charts
- Lesson 5 Control charts
- Lesson 6 Linking measurement to improvement

Technical Requirements



Participants should be proficient with Excel.

We will be using Excel to create run charts



Particpants may wish to purchase SPC software

We will cover how to select the correct control charts and how to analyze them, but will not be using a specific software to instruct the creation of them.

Self-Paced Lessons

- Six lessons
- 12-week course duration

Virtual Calls

- Live virtual calls are hosted on Zoom and will run for one hour *last two calls are 1.5 hours
- We expect you attend all sessions
 - *all sessions are recorded

Enrollment Details

- Course begins April 14, 2025
- Registration rate: \$549 per person
- Scholarship deadline March 3, 2025
- Registration deadline <u>April 28, 2025</u>

Please provide feedback!

https://forms.office.com/r/5ruDBApxYB





We hope you can join us on our journey!



For more information contact:

fkeeling@ihi.org

jmccall@ihi.org

rlloyd@ihi.org



