

Learn Improvement & Implementation Science

Improvement and Implementation Science Domain Definition

To reduce avoidable variation in process and outcome and ensure the systematic update of research findings in a health system

Domain Competencies and Objectives Relevant to Quality Improvement

- Using quality improvement methods to standardize clinical processes*
- Using quality improvement methods to reduce avoidable variation in clinical outcomes*
- Using implementation science methods and strategies to study and promote systematic uptake of evidence into routine practice
- Using quality improvement methods to study and promote systematic uptake of evidence into routine practice*
- Using strategies to implement successful interventions in new settings (e.g., other facilities, departments)
- Using strategies to sustain successful interventions

Applied LeaRRning Case: A Quality Improvement Initiative to Standardize Clinical Processes in Outpatient Rehabilitation

Introduction to the Case Study

This Case is based on a presentation by Dr. Gerard Brennan at the CoHSTAR Implementation Science Institute entitled: *The Synergy of Implementation & Improvement Science*. Dr. Brennan highlighted the complementary aspects of quality improvement and implementation science from his perspective as a leader in quality improvement at Intermountain Healthcare. <u>Click here</u> to see the presentation.

Learning Resources to Advance Your Competencies in Quality Improvement Methods

Introduction to Quality Improvement

• Quality Improvement Presentation by A. Rani Elwy, PhD

Readings

• Aligning Improvement and Implementation Science

Other Resources

- Institute for Healthcare Improvement (IHI)
 - o Open School
 - o Model for Improvement
- Agency for Healthcare Research and Quality (AHRQ)
- National Quality Forum (NQF)
- Quality and Safety Education for Nurses (QSEN)

Tools

- Cause-and-Effect Diagram
- Check Sheet
- Control Chart
- Flow Chart
- Histogram
- Pareto Chart
- Scatter Diagram
- Stratification
- Plan-Do-Study-Act (PDSA) Worksheet

*Bolded items were presented by Dr. Brennan.

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^{*}Competencies in **bold** are highlighted in this Use Case