

Modern Concepts of Quality Management for 2030





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Introduction

When planning a research project, there are always opportunities to improve the results. Targets for improvement include quality, productivity, costs, and other aspects of a project. In some cases, it may be possible to improve the conduct of the research itself as well as the effectiveness of the clinical practice addressed. Fortunately, there are many methods for making such improvements. Some of these were initially developed by industries other than healthcare, but are applicable to healthcare nonetheless. Interestingly, some of these methods seem to work better in healthcare than they do in the industry in which they were initially used.

Conference Objectives - Modern Concepts of Quality Management

- · Analyze problems or test hypotheses
- Evaluate current practices or alternatives
- Develop new practices or improve on existing ones
- Implement change as a pilot
- Finding available best clinical practices

Conference Agenda - Modern Concepts of Quality Management

Day 1

The Application of QI Methods

- Evaluate alternative refined versions of the intervention to be done at multiple sites.
- Identify situational variations as well as systematically neglected populations and identify strategies to reduce these issues.
- Further evaluate implementation costs, generalizing the business case model developed for the prior deployment so that the full rollout of the program can be justified based on its economics.
- Identify organizational requisites

Day 2



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Selecting the right QI methods

- Understanding existing processes
- Planning change to assure success
- Implementation
- Evaluation of results and sustaining change

Day 3

Methods for Quality Improvement

- A3 Worksheet definition
- Affinity Diagram
- Balanced Scorecard
- Baldrige Award
- Continuous Flow
- DMAIC Define, Measure, Analyze, Improve, Control
- Facility Layout
- Failure Mode and Effects Analysis
- Force Field Analysis
- Gemba and Genchi Genbutsu
- Hoshin Kanri
- Fishbone Diagram
- ISO 9000
- Kaizen Event
- Key Performance Indicators

Day 4

Methods for Quality Improvement

- Lean and Lean Daily Management
- Maturity Model
- Modeling and Optimization
- Nominal Group Technique
- Overproduction Assessment
- One-Piece Flow
- · Pareto Analysis
- Performance Board
- Program Evaluation Review Technique PERT
- Quality Function Deployment
- Responsibilities Matrix
- Scatter Diagram
- Simulation Modeling

Day 5



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Methods for Quality Improvement

- SIPOC Suppliers, Inputs, Processes, Outputs, and Customers
- Six Sigma
- Spaghetti Diagram
- Standard Work
- Systems Approach
- Theory of Constraints
- Time Study & Work Measurement
- Total Quality Management TQM
- Value Stream Map
- Visual Controls
- Waste Reduction



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