Strengthening Life Line

Parul Maroo, Komal Koya and Hiren Patel
Department of Industrial Engineering
Pandit Deendayal Petroleum University
Gandhinagar, Gujarat (382007), India
marooparul@gmail.com, komalkoya94@gmail.com, 111hiren@gmail.com

Abstract

Fueled by public incidents and growing evidence of deficiencies in care, concern over the quality and outcomes of care has increased. Traditional methods of quality improvement (QI) like quality assurance and quality control are no longer preferred. Proactive methods are replacing them, but with little awareness. It has become a need of the era to look after the QI required for the health care and make professionals aware for the QI methodology and terminology. The poster aims to provide professionals with sufficient information to understand the fundamentals of QI, a starting point for improvement projects and stimulate further inquiry into the QI methodologies currently being used in health care. Prior to applying the following methods, an appropriate benchmark is set-up by rigorous measurements to define the extent of transformation. The methods involved in the initiatives of quality improvement are: PDSA (Plan Do Study Act), Six Sigma and Lean strategies, where the PDSA cycle assists in testing the ideas through small tests of change, six Sigma aims at reducing variations in processes and the Lean methodology predominantly focuses on enhancing process efficiency and eliminating non-value added steps in the process. It is likely that such structured problem solving approaches will provide an objective and systematic method of enhancing quality in healthcare institutions.

Keywords
Quality Improvement, Plan- Do-Study-Act, Six- Sigma, Lean Methodology

Biography

Ms. Parul Maroo is a final year engineering student at Pandit Deendayal Petroleum University. She is pursuing her undergraduation course in Industrial Engineering Department from Pandit Deendayal Petroleum University, Gujarat, India. She has attended two year certification course in Quality from American Society for Quality (ASQ). Currently, she is working on a project based on supply chain management. Her past project work includes Green Supply Chain Management, Rework Reduction, Quality enhancement in Healthcare. Her research interests include Supply Chain Management, Operation Research, Quality Control and Lean.

Ms. Komal Koya is a final year engineering student at Pandit Deendayal Petroleum University. She is currently working to earn a Bachelor degree in the field of Industrial engineering. She aspires to further attain a Master degree in the same field. As her interest is in the area of Operations Research, she wishes to take majors in subjects linked to Operations, like-Optimization techniques, Probabilistic approach, Applied Statistics. She has done projects on the topics of Data Analytics, Quality improvement in Banks, Quality enhancement in Healthcare.

Mr. Hiren Patel is a final year engineering student at Pandit Deendayal Petroleum University. He is pursuing his undergraduate course in Industrial Engineering Department from Pandit Deendayal Petroleum University, Gujarat, India. He aspires to further attain a Master degree in the same field. His interest is in the area of Logistics, Operations Research and Design of Experiments. He aspires to further attain a Master degree in the same field. He has done projects on the topics of Reverse logistics integration with product design, Quality enhancement in Healthcare.