

BIO

Lilly D. Engineer, DrPH, MD, MHA

Assistant Professor

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Dr. Engineer is an assistant professor in the Departments of Anesthesiology and Critical Care Medicine at the Johns Hopkins School of Medicine, and Health Policy and Management at the Johns Hopkins Bloomberg School of Public Health. She is associate faculty in the Armstrong Institute for Patient Safety and Quality and in the Center for Health Services and Outcomes Research. She also co-directs the Department of Health Policy and Management's Doctorate of Public Health (DrPH) program and Certificate in Quality, Patient Safety, and Outcomes Research.

Dr Engineer is a physician and holds a Doctorate in Public Health from the Johns Hopkins Bloomberg School of Public Health and a Masters in Hospital Administration from the Tata Institute of Social Sciences, India. Her primary research interests include the improvement and evaluation of healthcare quality and patient safety in international settings. Her 5 most recent research projects over the past 8 years included 3 AHRQ funded grants, an NIH funded grant and an international grant. As part of the first AHRQ funded grant titled "Rural Hospitals: Environment, Strategy, and Viability", she worked extensively with the AHRQ inpatient quality and patient safety indicators (IQIs and PSIs) leading the data analysis and reporting to assess the clinical performance of a random stratified sample of 319 rural hospitals from 19 US states from the years 1995 to 2003.

The second AHRQ funded study titled "Medication Monitoring for Vulnerable Populations Via IT" was designed to serve as a model for maximizing the utility of information technology in ambulatory settings among patients at high risk for substandard care. The overall goal of the NIH funded grant titled 'Improving Childhood Immunization Compliance Using Electronic Health Records' was to improve school-aged childhood immunization rates among a predominantly African American, inner city population, utilizing and comparing 2 Electronic Health Record generated interventions. She is on the AHRQ funded task force working to evaluate and provide recommendations on how to improve the AHRQ Quality Indicators. Since 2014 she has been the Principal Investigator for a Patient Safety improvement project in Intensive Care Units in a tertiary care hospital of a large academic center in China to reduce the Catheter line associated blood stream infections and improve safety culture using the CUSP and TRIP model. Her

research is conducted with the goal of adaptation of evidence based tested tools and models to improve quality and patient safety in international settings to enable adaptation, sustainability and resource conservation.

Dr. Engineer's patient safety research work also includes the development of the first anonymous intensive care unit safety reporting system (ICUSRS) in the US. She served on a WHO task force that created a practical curriculum guide for training patient safety improvement researchers and practitioners worldwide. She was a member of the Expert Review Panel of the U.S. Pharmacopeia MEDMARX Data report, a chart book of 2004-2005 findings from ICUs and radiologic services.

Most recently, Dr. Engineer is a core team lead for Qatar's national quality and patient safety indicators report development team, awaiting final approval. She has been invited by the Chinese Hospital Association to serve as the national core expert to guide their national patient safety agenda and provide direction on future steps. He serves in this capacity from 2016 to 2019.

She enjoys life's predictability as well as the not so predictable moments as she balances/juggles between being a wife, a professional, a mother of 2 beautiful children-11 year old daughter and 8 year old son, a daughter & various other roles.