

LAUNCHING THE ETHIOPIA HEALTH CARE QUALITY INITIATIVE: INTERIM RESULTS AND INITIAL LESSONS LEARNED

¹Hema Magge, ²Abiyou Kiflie, ²Zewdie Mulissa, ²Mehret Abate, ²Abera Biadgo, ²Befikadu Bitewulign, ²Hareg Alemu, ³Kathryn Brooks, ⁴Hassen Mohammed, ⁴Daniel Burssa. ¹Institute for Healthcare Improvement; Brigham and Women's Hospital, Ethiopia; ²Institute for Healthcare Improvement, Ethiopia; ³Institute for Healthcare Improvement, US; ⁴Ethiopia Federal Ministry of Health, Ethiopia

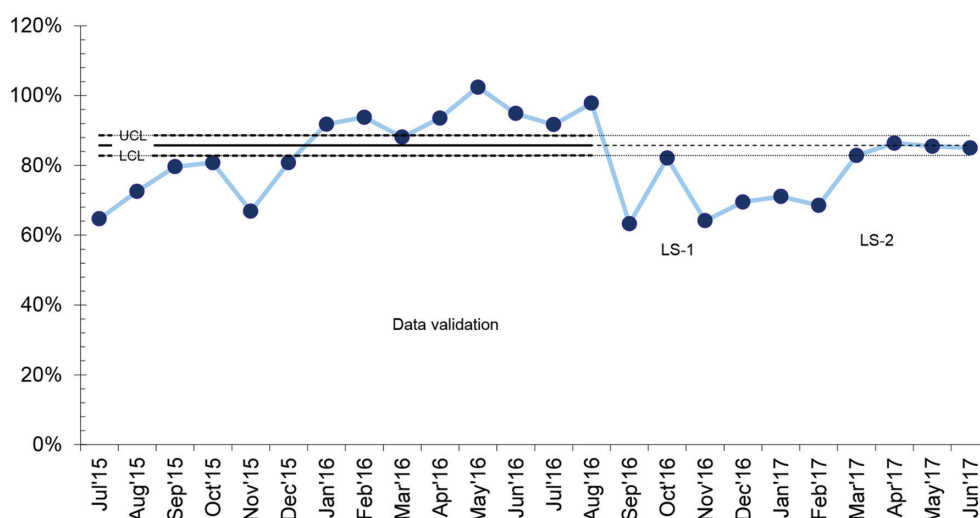
10.1136/bmjopen-2017-IHL4

Background Since 2013, IHI has worked with the Ethiopian Federal Ministry of Health (FMOH) to leverage QI methodologies to accelerate progress of the FMOH in maternal newborn health (MNH), and build a culture of quality in the health system.

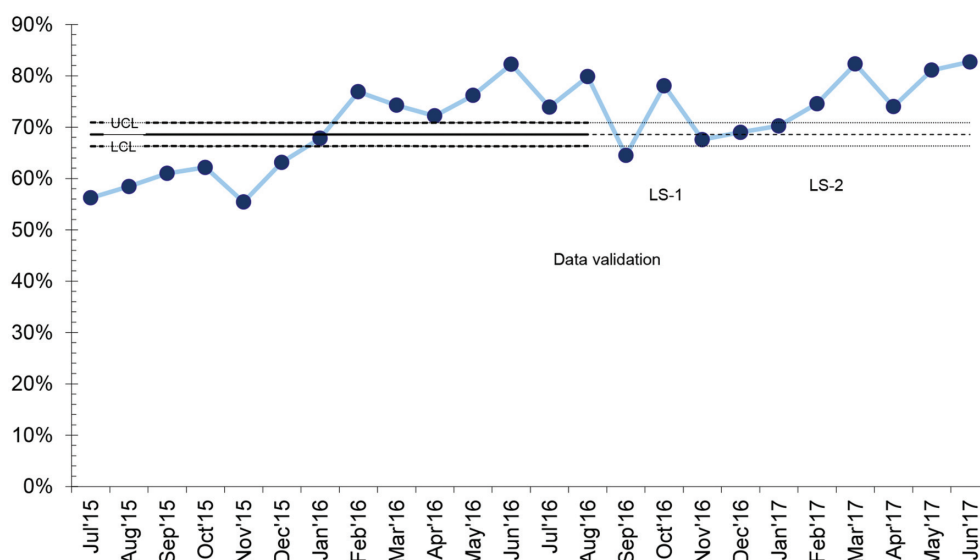
Objectives Understand initial successes, challenges, and results of a multi-faceted strategy aimed at institutionalising QI and improving MNH outcomes in a resource-limited setting.

Methods Three collaboratives launched in three regions of Ethiopia April-September 2016. We report programmatic and core clinical indicators after LS1 (October 2016-June 2017). Monthly means of program process measures were extracted from routine monitoring tools. Control charts for core HMIS-derived indicators use baseline data (July 2015-August 2016) to set control limits and extend forward. Bundle implementation is displayed using run charts.

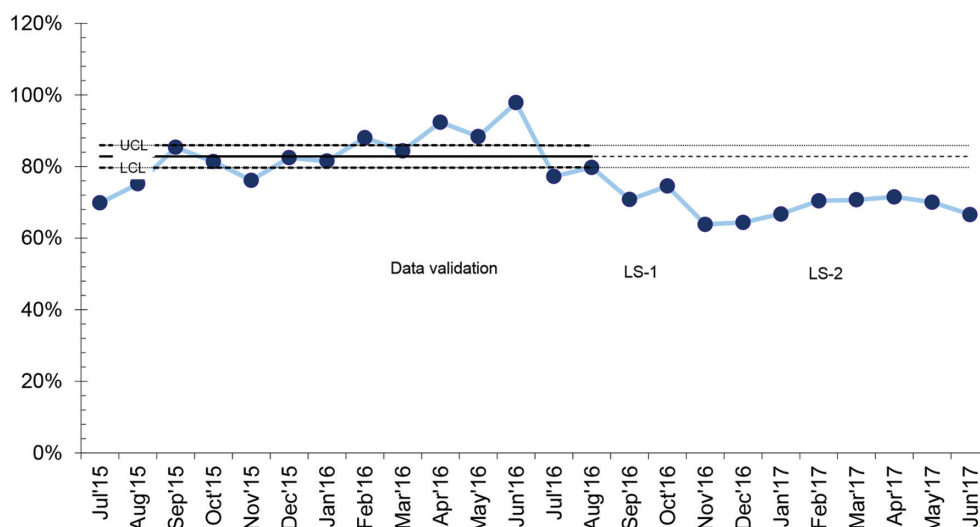
Results Currently, LS3 has been completed, and 57 health care workers have been trained in QI along with 83 manager-level staff. 20 QI teams have conducted 506 PDSA cycles. Sixteen (80%) teams have reported signals of improvement in bundle adherence by LS2. Aggregate control charts demonstrate initial improvement in data quality in 4-visit ANC, PNC within 48 hours of delivery, and skilled delivery as seen by an initial apparent performance drop. ANC coverage, PNC coverage, percent of women tested for syphilis during first ANC visit, and clinical bundles continued with signals of improved care quality with upward trend (see charts).



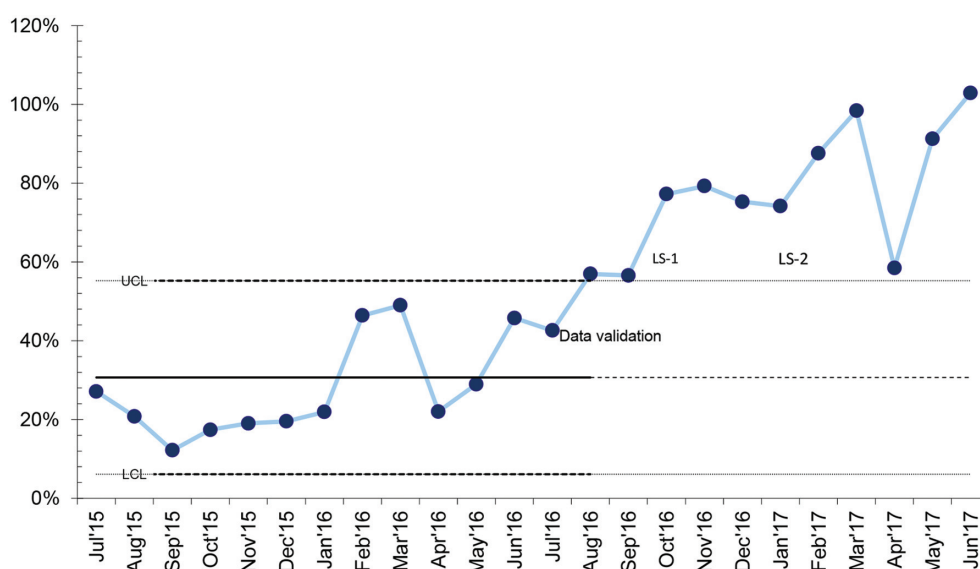
Abstract 865 Figure 1 4 visit ANC



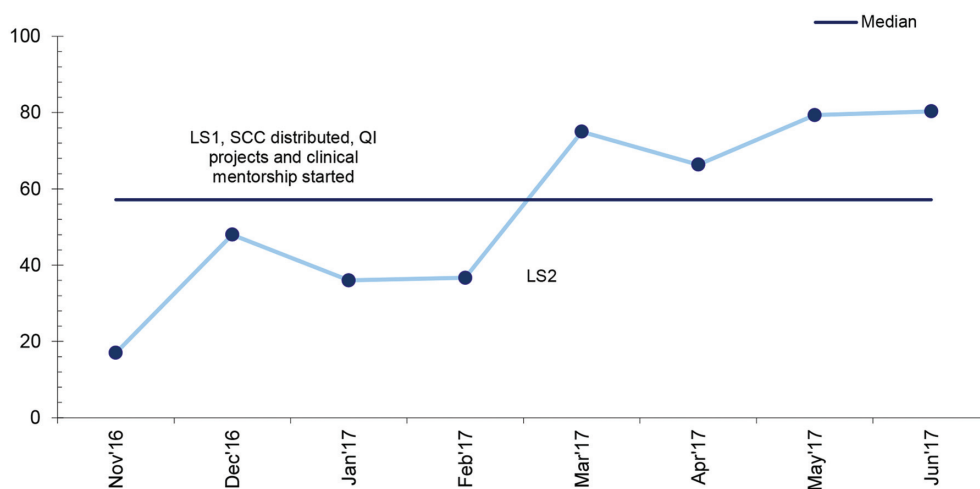
Abstract 865 Figure 2 Postnatal care within 48 hours



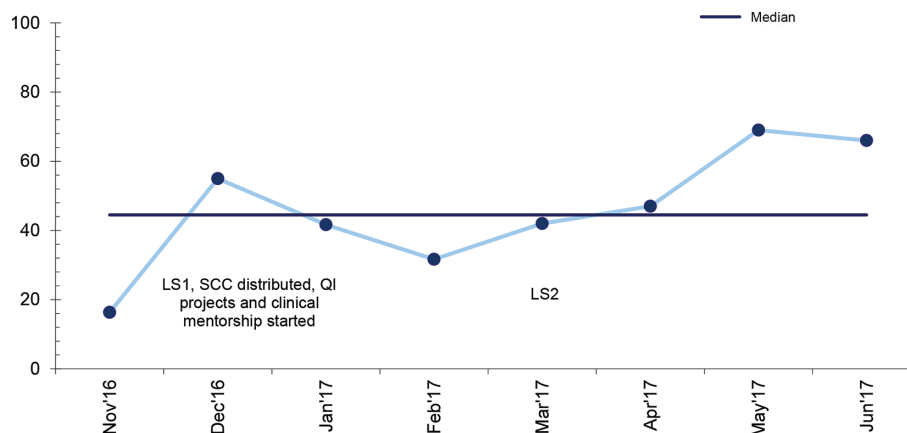
Abstract 865 Figure 3 Skilled birth attendance



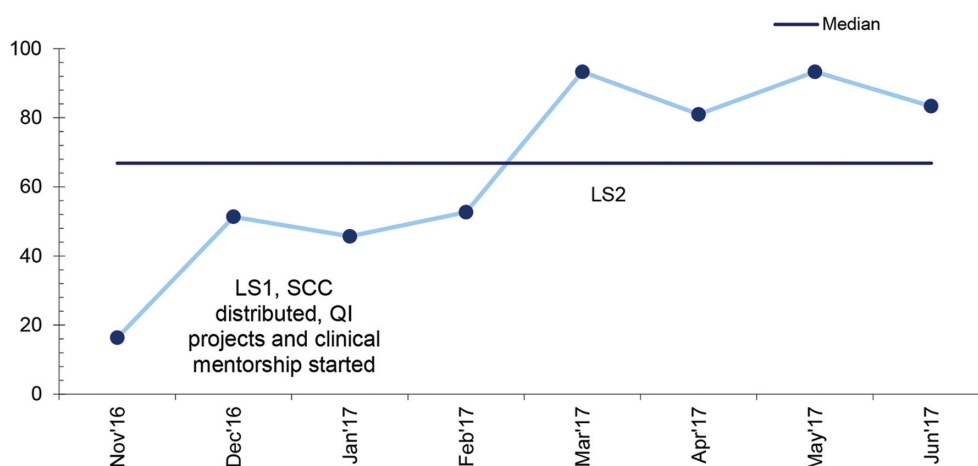
Abstract 865 Figure 4 Syphilis testing in ANC



Abstract 865 Figure 5 100% completion of 'on admission' bundle



Abstract 865 Figure 6 100% completion of 'before pushing' bundle



Abstract 865 Figure 7 100% completion of 'soon after birth' bundle

Conclusions Initial results are promising regarding program delivery and indicate high levels of facility-level QI activities, as well as initial signals of improved data and service quality in key maternal newborn health services.

process defects, identify risk factors within the population, optimise patients preoperatively, institute a risk scoring system to focus more energy and time with riskier patients, and decrease clinical variation that could lead to complications.

Methods Patient encounter data was used to conduct statistical analysis of medical diagnoses and demographic information to create a preoperative risk tool used to screen patients in pre-admission testing. Risky patients were optimised, and received

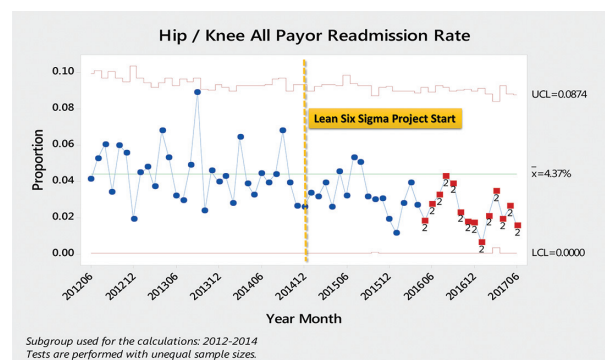
869 USING SIX SIGMA TO REDUCE READMISSIONS IN ELECTIVE TOTAL HIP & KNEE ARTHROPLASTY

¹Brandon Hill, ¹Eva Pittman, ¹Hannah Lanier, ¹Karen Hines, ¹Charmaine Lewis, ²Jack Bowling, ¹Caitlin Dunn, ¹RoseAnn Gosswein, ¹Shirley Glockner, ¹David Oehler, ¹Pam Cumber, ¹Alice Matthews. ¹New Hanover Regional Medical Centre, US; ²Bowling Orthopaedics, US

10.1136/bmjopen-2017-01115

Background New Hanover Regional Medical Centre is a public, not for profit, teaching hospital that performs over 2000 total joint arthroplasties per year. Following a near 1 million dollar penalty for excess 30 day Hip and Knee readmissions on the FY'15 CMS readmission report, a team was assembled to improve outcomes.

Objectives The team's objective was to identify trends among readmitted patients, conduct root cause analysis to determine



Abstract 869 Figure 1 Hip/knee all payor readmission rate