Supplemental Table 1. Data sources used for assessing results of the quality improvement initiative in Bihar, India

Data source	Purpose	Frequency and representativeness	Methods of data collection	Data elements captured
AMANAT Direct observation of deliveries ¹	Explore providers' skills, practices, and quality of care offered in facilities	Pre- and post- AMANAT training in BEmONC and CEmONC facilities; 4 phases (319 facilities total) between 2015-2017; 36 of 38 districts in the state	Direct observation of deliveries by trained nurses serving as evaluators	Infection control measures, intrapartum and essential newborn clinical practices
Comprehensive Facility Assessments ²	Identify gaps in health facilities' readiness for service delivery	Conducted by CARE's CML in all public facilities where deliveries are conducted; all 38 districts in the state; 3 rounds, about annual between 2015-2017	Direct observation of infrastructure (condition of wall, floor, roof, illumination), functionality of equipment, physical counting of drugs and consumables; review of records for completeness, upto-date status and information related to case load, length of stay and bed occupancy	Infrastructure, human resources, availability and functionality of equipment, supplies (drugs and consumables), infection control, laboratory facility*, operation theatre*, referral system*
Household Surveys ³	Assess women's and their children's receipt of care	Annually during 2014- 2017; state-representative	Self-reported information by women with live infants 0-2 months old during household interviews	Health service utilization, counseling and advice received from frontline health workers

AMANAT - Apatkalin Matritvaevam Navjat Tatparta (translated Emergency Maternal and Neonatal Care Preparedness), BEmONC, basic emergency obstetric and newborn care, CEmONC - comprehensive emergency obstetric and newborn care, CML - Concurrent Monitoring and Learning, GoB - Government of Bihar, HMIS - Health Management Information System

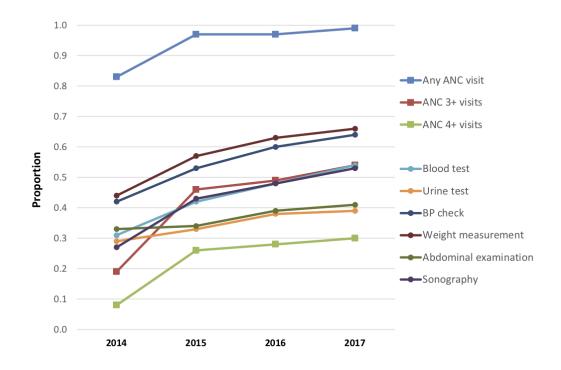
Supplemental Figure 1. Changes in antenatal care attendance and content indicators: Bihar, 2014-2017

¹All data used in analyses presented.

²Data from 2015 and 2017 surveys used in analyses presented.

³Data from all 4 rounds conducted between 2014 and 2017 used in analyses presented.

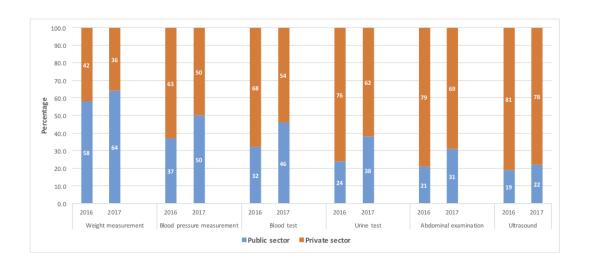
^{*2017} data only.



Notes: Data are from annual state-representative Community-based Household Surveys with women. For antenatal content, data are proportions of women with at least one ANC visit. All p-values for trend<0.05.

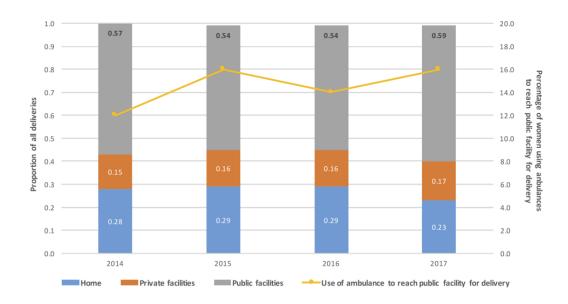
ANC, antenatal care; BP, blood pressure.

Supplemental Figure 2. Antenatal care content by source of care: Bihar, 2016 and 2017



Notes: Data are from annual state-representative household surveys with women. For antenatal content, data are proportions of women with at least one antenatal care visit. Differences between 2016 and 2017 surveys are statistically significant at p-value<0.05.

Supplemental Figure 3. Changes in institutional deliveries and use of ambulances: Bihar, 2014-2017



Notes: Data are from annual state-representative Community-based Household Surveys with women. Year-to-year differences in place of delivery are statistically significant at p-value<0.05.