

Supplementary File 1.

The analyses shown here use generalized estimating equations to take account of baseline differences between intervention and control wards (as shown in Table 1 in the main paper), and of differences in use of health services between intervention and control wards (as shown in Table 4 in the main paper). Because of the relatively high level of missing data on education of the household head (see Table 1 in the main paper), we did not include this variable in these multivariate analyses.

Table S1. GEE analysis of impact of intervention on pregnancy, delivery, and post-natal complications, taking account of baseline differences and differences in use of health services between intervention and control wards

Outcome	OR (Robust 95%CI)		First difference (95%CI)	
	Intervention alone	Modelled with care and base differences*	Intervention alone	Modelled with care and base differences*
<i>Pregnancy complications</i>				
No persistent headache	24.68 (14.95 to 40.72)	26.46 (15.67 to 44.68)	0.530 (0.443 to 0.611)	0.537 (0.438 to 0.601)
No swelling of face or hands	13.39 (7.27 to 24.68)	12.86 (7.31 to 22.63)	0.257 (0.211 to 0.303)	0.252 (0.202 to 0.302)
No convulsions	6.13 (2.93 to 12.85)	7.79 (4.25 to 14.28)	0.042 (0.016 to 0.085)	0.034 (0.017 to 0.060)
No vaginal bleeding	4.75 (3.38 to 6.67)	4.51 (3.17 to 6.41)	0.076 (0.049 to 0.111)	0.073 (0.046 to 0.105)
No dizziness or blurred vision	23.28 (17.21 to 31.50)	23.68 (17.99 to 31.19)	0.400 (0.356 to 0.440)	0.401 (0.359 to 0.445)
No raised blood pressure	5.19 (3.50 to 7.71)	4.61 (2.879 to 7.370)	0.115 (0.072 to 0.170)	0.106 (0.062 to 0.160)
<i>Delivery and post-natal complications</i>				
No perineal tear, cut, or Caesarean section	0.49 (0.20 to 1.18)	0.99 (0.415 to 2.040)	-0.050 (-0.141 to 0.008)	-0.005 (-0.069 to 0.035)
No wound opening or infection after delivery	2.46 (0.97 to 6.24)	2.51 (0.999 to 6.286)	0.009 (0.0002 to 0.0235)	0.010 (0.0003 to 0.023)
No fever within 6 weeks of delivery	4.92 (2.93 to 8.26)	4.59 (2.68 to 7.86)	0.320 (0.211 to 0.425)	0.305 (0.193 to 0.414)
No smelly discharge within 6 weeks of delivery	4.98 (1.96 to 12.65)	5.05 (1.91 to 13.43)	0.130 (0.064 to 0.185)	0.128 (0.669 to 0.185)
No sepsis within 6 weeks of delivery	5.08 (2.93 to 8.81)	5.68 (3.72 to 8.67)	0.339 (0.228 to 0.448)	0.359 (0.264 to 0.448)

*Baseline and care-related differences included in the initial saturated models were: Non-remote versus remote community; low risk age of pregnancy (18-35 yr); adolescent pregnancy (age <20 yr); pregnancy over the age of 39 years; five or more previous pregnancies; with any formal education; with enough food in the last week; attended for any ANC; delivered at a health facility; blood pressure measured at least once.

Table S2. GEE analysis of impact of intervention on targeted risk factors, taking account of baseline differences and differences in use of health services between intervention and control wards

Outcome	OR (Robust 95%CI)		First difference (95%CI)	
	Intervention alone	Modelled with care and base differences*	Intervention alone	Modelled with care and base differences*
Reduced heavy work during pregnancy	6.63 (3.85 to 11.43)	5.87 (3.35 to 10.28)	0.227 (0.138 to 0.328)	0.219 (0.127 to 0.328)
Reduced heavy work before 3 rd trimester	7.43 (4.29 to 12.84)	7.44 (4.28 to 12.92)	0.457 (0.343 to 0.548)	0.457 (0.342 to 0.553)
No physical domestic violence during pregnancy	3.63 (2.99 to 4.39)	3.26 3.03 to 3.51	0.061 (0.049 to 0.075)	0.054 (0.049 to 0.059)
Discussed pregnancy with spouse	3.67 (2.05 to 6.58)	2.91 (1.43 to 5.90)	0.203 (0.093 to 0.314)	0.167 (0.056 to 0.278)
Know any danger sign in pregnancy	9.75 3.97 to 23.93	17.80 10.97 to 28.89	0.143 0.103 to 0.179	0.146 0.140 to 0.151
Know 3 or more danger signs in pregnancy	6.46 4.50 to 9.28	6.81 (4.81 to 9.65)	0.434 0.360 to 0.503	0.446 (0.368 to 0.515)
Know any danger sign in delivery	9.78 5.98 to 16.01	10.75 (5.66 to 20.41)	0.221 0.139 to 0.309	0.221 (0.144 to 0.303)
Know 3 danger signs in delivery	6.49 3.69 to 11.42	5.56 (3.53 to 8.78)	0.191 0.153 to 0.226	0.166 (0.143 to 0.182)

*Baseline and care-related differences included in the initial saturated models were: Non-remote versus remote community; low risk age of pregnancy (18-35 yr); adolescent pregnancy (age <20 yr); pregnancy over the age of 39 years; five or more previous pregnancies; with any formal education; with enough food in the last week; attended for any ANC; delivered at a health facility; blood pressure measured at least once.