

Supplemental Table 2. Coefficients for Models Testing the Effect Modification of Coaching Intensity by Months Since Start of the Interaction

Coaching Intensity	EBP Adherence N=2,083 births			Primary Composite Maternal morbidity, maternal or infant mortality (n/N=12,062/79,777)			Secondary Composite Maternal or infant mortality (n/N=3,907/80,234)		
	Main effect of coaching	Main effect of months since start of intervention	Interaction Term	Main effect of coaching	Main effect of months since start of intervention	Interaction Term	Main effect of coaching	Main effect of months since start of intervention	Interaction Term
Coaching frequency (past month)									
Visits in the past month	-0.04	-0.03	0.08	-0.001	0.004	0.003	-0.01	0.01	0.005
Mean visits in the past month per BA	-0.02	-0.01	0.34	-0.01	0.001	0.01	-0.06	0.004	0.02
BAs receiving ≥1 visit in past month, %	1.52	0.01	0.52	0.08	0.003	0.001	-0.08	0.003	0.02
Standard deviation in visits among BAs in past month	-0.15	-0.03	0.33	-0.02	-0.01	0.01	0.02	0.01	0.01
Coaching frequency (past week)									
Visits past week	-0.35	-0.10	0.22	-0.05	-0.01	0.01	-0.07	0.003	0.02
Mean visits in past week per BA	-0.60	-0.08	0.82	-0.14	-0.01	0.04	-0.27	-0.0001	0.07
BAs receiving ≥1 visit in past week, %	-0.38	-0.09	0.91	-0.14	-0.01	0.04	-0.22	0.003	0.07
Standard deviation in visits among BAs in past week	-0.91	-0.11	0.55	-0.12	-0.01	0.03	-0.15	0.004	0.05
Cumulative coaching									
Total visits	0.08	0.92	-0.03	0.01	0.19	-0.004	0.004	0.13	-0.003
Mean visits per BA	0.39	0.15	-0.04	0.02	-0.01	-0.0001	0.01	-0.02	0.001
BAs receiving ≥10 visits, %	3.79	0.09	-0.64	0.10	0.009	-0.001	0.06	-0.004	0.01
Standard deviation in visits among BAs	0.42	-0.07	-0.02	0.01	-0.01	0.0000	0.01	-0.001	0.0001
Scheduling adherence									
Current scheduling nonadherence	-3.05	-0.15	0.70	0.06	-0.004	-0.002	0.12	0.005	-0.03
Cumulative scheduling nonadherence	0.05	-0.35	0.003	0.001	-0.04	0.001	0.004	-0.01	0.0002

Abbreviations: BA, birth attendant; EBP, essential birth practice.

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Supplemental Table 3. Effect Modification of Coaching Intensity by Months Since Start of the Interaction

The *P* value of the overall significance of coaching reflects the joint null hypothesis that both the main effect of coaching and the coaching-by-time interaction term are equal to 0.

Coaching Intensity	EBP Adherence N=2,083 births	Primary Composite Maternal Morbidity, Maternal or Infant Mortality (n/N=12,062/79,777)		Secondary Composite Maternal or Infant Mortality (n/N=3,907/80,234)		
	Interaction Term <i>P</i> Value	Overall Significance of Coaching <i>P</i> Value	Interaction Term <i>P</i> Value	Overall Significance of Coaching <i>P</i> Value	Interaction Term <i>P</i> Value	Overall Significance of Coaching <i>P</i> Value
Coaching frequency (past month)						
Visits in the past month	.09	.62	.09	.82	.11	.71
Mean visits in the past month per BA	.08	.28	.09	.94	.11	.25
BAs receiving ≥1 visit in past month, %	.06	.15	.97	.38	.26	.70
Standard deviation in visits among BAs in past month	.07	.53	.32	.48	.44	.49
Coaching frequency (past week)						
Visits past week	.07	.43	.02	.06	.02	.14
Mean visits in past week per BA	.11	.74	.01	.10	.04	.08
BAs receiving ≥1 visit in past week, %	.09	.64	.04	.28	.05	.34
Standard deviation in visits among BAs in past week	.09	.52	.02	.15	.03	.31
Cumulative coaching						
Total visits	.23	.09	.12	.22	.09	.77
Mean visits per BA	<.01	.04	.91	.03	.54	.43
BAs receiving ≥10 visits,%	.02	.11	.98	.26	.79	.68
Standard deviation in visits among BAs	.05	.04	.97	.31	.98	.45
Scheduling adherence						
Current scheduling nonadherence	.04	.06	.92	.46	.44	.54
Cumulative scheduling nonadherence	.63	.14	.07	.53	.85	.39

Abbreviations: BA, birth attendant; EBP, essential birth practice.

Supplemental Table 4. Effects of Coaching Frequency Calculated Using a 1-Week Time Horizon on EBP Adherence

Effects are reported for increasing each continuous coaching metric from its 25th percentile to its 75th percentile, or by 1 interquartile range (IQR). Results are from a generalized linear with an identity link. Standard errors are estimated using the empirical variance with an exchangeable working covariance structure to account for clustering at the facility level. (N=2,083 births)

Coaching Intensity	Units in IQR increase	Model 1 ^a			Model 2 ^b		
		Δ in practices adhered to associated with 1-unit increase (95% CI)	Δ in practices adhered to associated with IQR increase (95% CI)	P Value	Δ in practices adhered to associated with 1-unit increase (95% CI)	Δ in practices adhered to associated with IQR increase (95% CI)	P Value
Coaching frequency							
Visits past week	1.0	0.7 (0.3, 1.0)	0.7 (0.3, 1.0)	<.01	0.3 (-0.1, 0.6)	0.3 (-0.1, 0.6)	.14
Mean visits in past week per BA	0.3	2.8 (1.5, 4.2)	0.8 (0.4, 1.2)	.01	1.6 (0.2, 3.0)	0.5 (0.1, 0.9)	.03
BAs receiving ≥1 visit in past week, %	30	4.0 (2.0, 6.0)	1.2 (0.6, 1.8)	.01	2.2 (0.3, 4.1)	0.7 (0.1, 1.2)	.04
Standard deviation in visits among BAs in past week	0.5	2.0 (0.9, 3.0)	1.0 (0.5, 1.5)	.01	0.8 (-0.3, 1.9)	0.4 (-0.2, 0.9)	.14

Abbreviations: BA, birth attendant; CI, confidence interval, IQR, interquartile range.

^a Adjusted for whether the facility was in a high-priority district, distance to district hospital, facility staff size, facility delivery load, whether birth occurred on the same day as a coaching visit.

^b Adjusted for everything in Model 1 plus months since start of the intervention (no non-linear effects of time detected).

Supplemental Table 5. Effects of Coaching Frequency Calculated Using a 1-Week Time Horizon on Health Outcomes

Effects are reported for increasing each continuous coaching metric from its 25th percentile to its 75th percentile, or by 1 interquartile range (IQR). Results are from a generalized linear model with a log link and binomial distribution. Standard errors are estimated using the empirical variance with an exchangeable working covariance structure.

Coaching Intensity	Units in 1 IQR	Primary Composite Maternal morbidity or maternal or infant mortality (n/N=12,062/79,777)				Secondary Composite Maternal or infant mortality (n/N=3,907/80,234)			
		Model 1 ^a		Model 2 ^b		Model 1 ^a		Model 2 ^b	
		RR (95% CI)	P Value	RR (95% CI)	P Value	RR (95% CI)	P Value	RR (95% CI)	P Value
Coaching frequency									
Visits past week	1.0	1.01 (0.99, 1.03)	0.41	0.99 (0.97, 1.02)	.71	0.99 (0.95, 1.03)	.69	1.00 (0.95, 1.06)	.93
Mean visits in past week per BA	0.3	1.01 (0.99, 1.04)	0.27	1.00 (0.98, 1.03)	.82	0.99 (0.95, 1.03)	.70	1.00 (0.96, 1.05)	.97
BAs receiving ≥1 visit in past week, %	0.3	1.02 (0.99, 1.06)	0.18	1.01 (0.98, 1.05)	.40	1.01 (0.95, 1.07)	.76	1.03 (0.97, 1.10)	.30
Standard deviation in visits among BAs in past week	0.5	1.02 (0.99, 1.05)	0.21	1.01 (0.97, 1.05)	.65	1.00 (0.95, 1.05)	.99	1.03 (0.96, 1.10)	.40

Abbreviations: BA, birth attendant; CI, confidence interval, IQR, interquartile range.

^a Adjusted for whether the facility was in a high-priority district, distance to district hospital, facility staff size, facility delivery load, whether birth occurred on the same day as a coaching visit.

^b Adjusted for everything in Model 1 plus months since start of the intervention (no nonlinear effects of time detected).