THE LANCET Global Health

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: Cresswell JA, Ganaba R, Sarrassat S, et al. The effect of the Alive & Thrive initiative on exclusive breastfeeding in rural Burkina Faso: a repeated cross-sectional cluster randomised controlled trial. *Lancet Glob Health* 2019; **7:** e357–65.

Supplementary Web Appendix

Jenny A Cresswell, Rasmané Ganaba, Sophie Sarrassat, Henri Somé, Abdoulaye Hama Diallo, Simon Cousens, Veronique Filippi. "A repeated cross-sectional cluster randomised controlled trial to investigate the effect of the Alive & Thrive initiative on exclusive breastfeeding in rural Burkina Faso" Lancet Global Health

Figure S1: Map of communes randomised

Pink cross-hatch = control commune; green stripes = intervention commune; solid grey = excluded commune

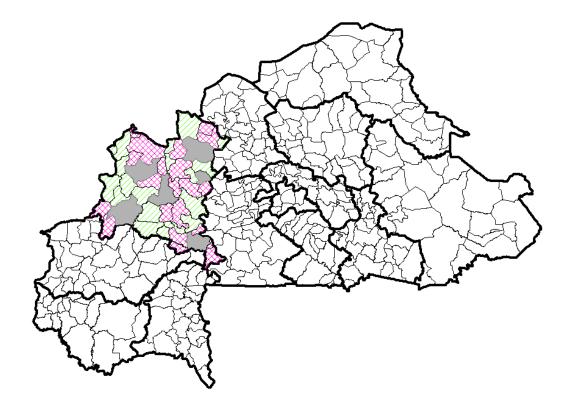


Figure S2: Risk difference in exclusive breastfeeding, stratified by province

Note. 20% indicates the hypothesised effect size a priori

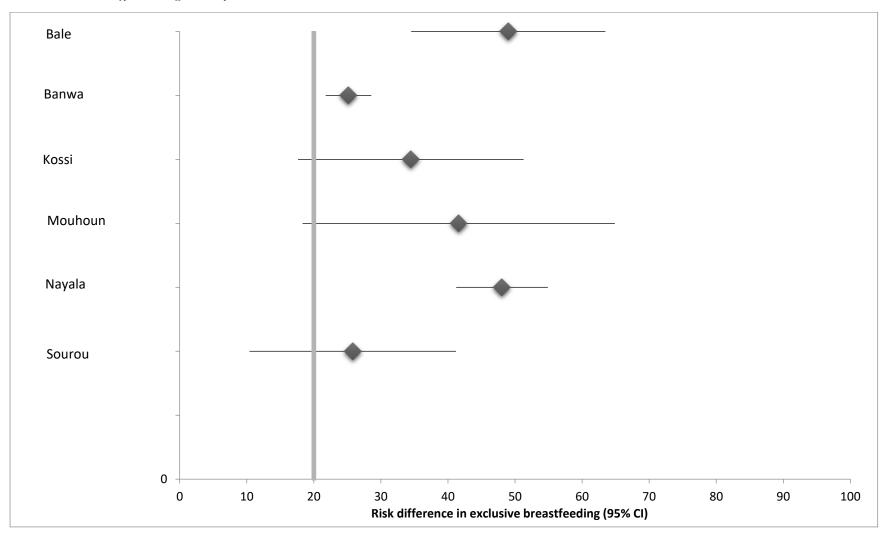


Table S1A: Food and liquid consumption in the day and night preceding the survey among infants <6 months at endline; breakdown of exclusive breastfeeding

	Control Arm N (%)	Intervention Arm N (%)
Pure water	254 (43.5%)	31 (5.6%)
Sugary or salty water	7 (1.2%)	1 (0.2%)
Coffee or tea	11 (1.9%)	2 (0.4%)
Infusion	123 (21.6%)	6 (1.1%)
Fruit juice	2 (0.3%)	0
Dolo (locally-brewed alcoholic drink) or other alcohol	1 (0.2%)	2 (0.4%)
Cow or goat's milk	2 (0.3%)	1 (0.2%)
Formula/powdered milk substitute	3 (0.5%)	1 (0.2%)
Other liquid	0	0
Yoghurt; curds	0	1 (0.2%)
Soup	3 (0.5%)	0
Bouille (thin gruel/porridge)	10 (1.7%)	3 (0.5%)
Cereal-based dish such as rice, pasta, millet or tô	2 (0.3%)	2 (0.4%)
Black-eyed peas	0	0
Yellow/orange vegetables such as carrot or squash	0	0
Tuber-based dish such as potato, yam, or cassava	0	0
Dark green leaves such as spinach	2 (0.3%)	2 (0.4%)
Other vegetables	0	0
Meat or poultry	0	0
Offal	0	0
Eggs	0	0
Fresh or dried fish	1 (0.2%)	0
Mayflies, caterpillars, crickets	0	0
Palm oil	0	0
Mango or papaya	0	0
Other fruit	0	1 (0.2%)
Peanuts or cashew nuts	0	0
Snacks such as cakes, biscuits or crisps	2 (0.4%)	1 (0.2%)
Other semi-solid or solid food	0	0
None of the above (exclusively breastfed)	299 (51.2%)	515 (93.3%)
Total	584	552

Та	able S1B: Prevalence of seconda	ry breastfeed	ling outcomes at endline, strat	tified by age group

	Infant age		Control Arm	Ir	ntervention Arm
	(months)	Ν	% (95% CI)	Ν	% (95% CI)
Forty initiation of broatfooding	0-5	584	15.1% (9.3%, 20.9%)	552	39.1% (32.4%, 45.9%)
Early initiation of breastfeeding	6-11	577	13.7% (7.7%, 19.7%)	540	34.4% (25.4%, 43.4%)
Gave colostrum	0-5	584	75.9% (68.2%, 83.5%)	552	95.3% (92.0%, 98.5%)
	6-11	577	72.8% (65.7%, 79.9%)	540	96.7% (94.5%, 98.8%)
Received no prelacteal feeds	0-5	584	90.3% (85.1%, 95.3%)	552	99.1% (98.2%, 100%)
Received no prelacted reeds	6-11	577	88.6% (84.1%, 93.1%)	540	99.4% (98.8%, 100%)

Table S2: Prevalence of reported exclusive breastfeeding and secondary breastfeeding outcomes at endline, as calculated using a difference-in-difference model on cluster-level data

Outcome	Survey	Trial Arm	Number of Clusters	Cluster Prevalence % (95% CI)	p-value
		Control Arm	19	26.9%	
	Baseline	Intervention Arm	18	33.3%	
		Difference	-	6.4%	
Exclusive breastfeeding		Control Arm	19	51.2% (42.2%, 60.1%)	
	Endline	Intervention Arm	18	93.2% (89.4%, 97.0%)	< 0.001
		Difference	-	42.1% (30.7%, 53.4%)	
	Difference-in	n-Difference	-	35.7% (19.6%, 51.7%)	< 0.001
		Control Arm	19	10.1%	
	Baseline	Intervention Arm	18	8.7%	
		Difference	-	-1.4%	
Early initiation of		Control Arm	19	14.4% (8.8%, 20.0%)	
breastfeeding	Endline	Intervention Arm	18	36.9% (29.8%, 43.9%)	< 0.001
		Difference	-	22.4% (15.8%, 29.0%)	
	Difference-in-Difference		-	23.8% (14.5%, 33.1%)	< 0.001
	Baseline	Control Arm	19	72.9%	
		Intervention Arm	18	76.5%	
		Difference	-	3.7%	
Gave colostrum		Control Arm	19	74.5% (67.7%, 81.2%)	
	Endline	Intervention Arm	18	96.0% (93.6%, 98.4%)	< 0.001
		Difference	-	21.5% (14.6%, 28.4%)	
	Difference-in-Difference		-	17.9% (8.1%, 27.6%)	< 0.001
		Control Arm	19	81.8%	
	Baseline	Intervention Arm	18	87.9%	
		Difference	-	6.1%	
Received no		Control Arm	19	89.5% (85.2%, 93.8%)	
prelacteal feeds	Endline	Intervention Arm	18	99.3% (98.7%, 99.8%)	0.003
		Difference	-	9.8% (3.5%, 16.2%)	
	Difference-in	n-Difference	-	3.7% (-5.3%, 12.7%)	0.414
		Control Arm	19	100%	
	Baseline	Intervention Arm	18	100%	
~		Difference	-	0%	
Continued		Control Arm	19	99.8% (99.5%, 100%)	
breastfeeding	Endline	Intervention Arm	18	100% (100%, 100%)	0.173
		Difference	-	0.2% (-0.1%, 0.4%)	1
	Difference-in	n-Difference	-	0.2% (-0.2%, 0.5%)	0.334

Table S3: Prevalence of correct knowledge relating to optimal breastfeeding practices at endline, as calculated using a difference-in-difference model on cluster-level data

Outcome	Survey	Trial Arm	Number of Clusters	Cluster Prevalence % (95% CI)	p-value
A mother should		Control Arm	19	37.0%	
	Baseline	Intervention Arm	18	40.6%	
initiate		Difference	-	3.6%	
breastfeeding during the first		Control Arm	19	50.7% (42.4%, 59.1%)	
hour after	Endline	Intervention Arm	18	76.6% (72.0%, 81.1%)	< 0.001
delivery		Difference	-	25.8% (17.6%, 34.0%)	
delivery	Difference-in	-Difference	-	22.3% (10.7%, 33.8%)	< 0.001
		Control Arm	19	50.5%	
A mother should	Baseline	Intervention Arm	18	51.7%	
breastfeed		Difference	-	1.2%	
exclusively for		Control Arm	19	57.1% (48.6%, 65.5%)	
the first six	Endline	Intervention Arm	18	80.5% (75.9%, 85.0%)	< 0.001
months		Difference	-	23.4% (14.0%, 32.8%)	
	Difference-in	-Difference	-	22.2% (8.9%, 35.5%)	0.001

Table S4: Mother's opinions relating to breastfeeding practices at endline, as calculated using a difference-in-difference model on cluster-level data

agree with	Survey	Trial Arm	Number of Clusters	Cluster Prevalence % (95% CI)	p-value
		Control Arm	19	98.6%	
	Baseline	Intervention Arm	18	99.3%	
"Breastfeeding is		Difference		0.6%	
a good thing for		Control Arm	19	99.4% (99.0%, 99.8%)	
the health of the	Endline	Intervention Arm	18	99.5% (98.9%, 100.0%)	0.768
baby"		Difference		0.1% (-0.9%, 1.1%)	
	Difference-i	n-Difference		-0.5% (-2.0%, 0.9%)	0.492
	Difference i	Control Arm	19	88.8%	0.172
	Baseline	Intervention Arm	18	88.2%	
"Breastfeeding is	Dasenne	Difference	10	-0.7%	
a good thing for		Control Arm	19	97.0% (96.0%, 98.0%)	
the health of the	Endline	Intervention Arm	19	96.8% (95.3%, 98.3%)	0.949
mother"	Endime	-	10	· · · · · · · · · · · · · · · · · · ·	0.949
	D:00	Difference		-0.2% (-6.7%, 6.3%)	0.022
	Difference-1	n-Difference	10	0.5% (-8.7%, 9.6%)	0.922
		Control Arm	19	77.9%	
"If a mother	Baseline	Intervention Arm	18	75.3%	
breastfeeds, the baby will have less diarrhoea"		Difference		-2.7%	
	1	Control Arm	19	88.0% (84.8%, 91.1%)	
	Endline	Intervention Arm	18	93.4% (91.5%, 95.3%)	0.029
		Difference		5.4% (0.6%, 10.3%)	
	Difference-i	n-Difference		8.1% (1.2%, 15.0%)	0.022
		Control Arm	19	44.7%	
"To give	Baseline	Intervention Arm	18	43.4%	
colostrum to a	1	Difference		-4.4%	
baby is not a		Control Arm	19	42.9% (38.0%, 47.9%)	
good thing for	Endline	Intervention Arm	18	25.3% (19.4%, 31.2%)	< 0.001
their health"	Linumit	Difference	10	-17.6% (-25.3%, -10.0%)	(01001
-	Difference-i	n-Difference		-13.3% (-24.1%, -2.4%)	0.017
	Difference-i	Control Arm	19	9.0%	0.017
	Baseline	Intervention Arm	19	7.2%	
"Cow's milk is			18		
more nutritious		Difference	10	-1.8%	
for babies than	F 111	Control Arm	19	9.6% (6.7%, 12.5%)	0.501
breastmilk"	Endline			8.7% (6.4%, 11.0%)	0.581
breastmilk"		Difference		-0.9% (-3.7%, 5.5%)	
					0 0
	Difference-i	n-Difference		0.9% (-3.7%, 5.5%)	0.690
		Control Arm	19	84.8%	0.690
"If a mother	Difference-i Baseline	Control Arm Intervention Arm	19 18	84.8% 84.0%	0.690
"If a mother		Control Arm Intervention Arm Difference	18	84.8% 84.0% -0.8%	0.690
breastfeeds, the		Control Arm Intervention Arm Difference Control Arm	-	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%)	0.690
breastfeeds, the baby will have		Control Arm Intervention Arm Difference Control Arm Intervention Arm	18	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%)	0.690
breastfeeds, the	Baseline	Control Arm Intervention Arm Difference Control Arm	18 19	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%)	
breastfeeds, the baby will have	Baseline Endline	Control Arm Intervention Arm Difference Control Arm Intervention Arm	18 19	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%)	
breastfeeds, the baby will have	Baseline Endline	Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference	18 19 18 18 19	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%) 3.0% (-1.1%, 7.1%)	0.146
breastfeeds, the baby will have fewer illnesses"	Baseline Endline	Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference n-Difference Control Arm	18 19 18 18 19	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%) 3.0% (-1.1%, 7.1%) 3.8% (-2.0%, 9.6%) 73.7%	0.146
breastfeeds, the baby will have fewer illnesses" "A baby needs to	Baseline Endline Difference-i	Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference n-Difference Control Arm Intervention Arm	18 19 18	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%) 3.0% (-1.1%, 7.1%) 3.8% (-2.0%, 9.6%) 73.7% 75.1%	0.146
breastfeeds, the baby will have fewer illnesses" "A baby needs to drink water in	Baseline Endline Difference-i	Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference n-Difference Control Arm Intervention Arm Difference	18 19 18 19 18 19 19 18	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%) 3.0% (-1.1%, 7.1%) 3.8% (-2.0%, 9.6%) 73.7% 75.1% 1.4%	0.146
breastfeeds, the baby will have fewer illnesses" "A baby needs to drink water in addition to	Baseline Endline Difference-i Baseline	Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference n-Difference Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference Control Arm	18 19 19 18 19 19 19 18 19 19 19 19	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%) 3.0% (-1.1%, 7.1%) 3.8% (-2.0%, 9.6%) 73.7% 75.1% 1.4% 68.9% (62.5%, 75.4%)	0.146
breastfeeds, the baby will have fewer illnesses" "A baby needs to drink water in addition to	Baseline Endline Difference-i	Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference n-Difference Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference Control Arm Intervention Arm Intervention Arm	18 19 18 19 18 19 19 18	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%) 3.0% (-1.1%, 7.1%) 3.8% (-2.0%, 9.6%) 73.7% 75.1% 1.4% 68.9% (62.5%, 75.4%) 34.0% (25.3%, 42.7%)	0.146
breastfeeds, the baby will have fewer illnesses" "A baby needs to	Baseline Endline Difference-i Baseline Endline	Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference n-Difference Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference Control Arm Intervention Arm Difference Control Arm Difference Control Arm Difference Control Arm Difference	18 19 19 18 19 19 19 18 19 19 19 19	84.8% 84.0% -0.8% 91.4% (89.0%, 93.8%) 94.4% (92.6%, 96.2%) 3.0% (-1.1%, 7.1%) 3.8% (-2.0%, 9.6%) 73.7% 75.1% 1.4% 68.9% (62.5%, 75.4%) 34.0% (25.3%, 42.7%) -34.9% (-43.8%, -26.1%)	0.146 0.192 <0.001
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				Control Arm N=1,161		ention Arm =1,092
			N	%	Ν	%
At health	During	Received advice from a health worker during antenatal care	389	33.5%	799	73.2%
facility	pregnancy or delivery	Health worker assisted with initiation of breastfeeding	408	35.1%	775	71.0%
		Health worker discussed breastfeeding whilst still at the facility after delivery	457	39.4%	789	72.3%
	Postpartum	Health worker asked about any difficulties breastfeeding during 1st postnatal checkup (for mother)	246	21.2%	466	42.7%
		Health worker observed breastfeeding during 1st postnatal checkup (for mother)	175	15.1%	371	34.0%
		Health worker gave advice on good breastfeeding technique during the 1st postnatal checkup (for mother)Health worker asked about any difficulties breastfeeding during 2nd postnatal checkup (for mother)Health worker observed breastfeeding during 2nd postnatal checkup (for mother)Health worker gave advice on good breastfeeding technique during the 2nd postnatal checkup (for mother)Health worker asked about any difficulties breastfeeding during 1st postnatal checkup (for infant)Health worker observed breastfeeding during 1st postnatal checkup (for infant)		22.6%	511	46.8%
				9.3%	163	14.9%
				6.1%	131	12.0%
				9.4%	188	17.2%
				3.8%	85	7.8%
				2.5%	70	6.4%
		Health worker gave advice on good breastfeeding technique during the 1st postnatal checkup (for infant)		4.7%	118	10.8%
		Health worker asked about any difficulties breastfeeding during 2nd postnatal checkup (for infant)		1.6%	46	4.2%
		Health worker observed breastfeeding during 2nd postnatal checkup (for infant)		1.8%	32	2.9%
		Health worker gave advice on good breastfeeding technique during the 2nd postnatal checkup (for infant)	35	3.0%	60	5.5%
		Health worker asked about any difficulties breastfeeding during the most recent weighing appointment	150	12.9%	279	25.5%
		Health worker observed breastfeeding during the most recent weighing appointment	112	9.7%	207	19.0%
		Health worker gave advice on good breastfeeding technique during the the most recent weighing appointment	199	17.1%	370	33.9%
		Health worker asked about any difficulties breastfeeding during the most recent vaccination appointment	195	16.8%	414	37.9%
		Health worker observed breastfeeding during the most recent vaccination appointment	150	12.9%	287	26.3%
		Health worker gave advice on good breastfeeding technique during the the most recent vaccination appointment	255	22.0%	524	48.0%
In the	During	Participated in at least one group meeting about breastfeeding in village	93	8.0%	331	30.3%
community	pregnancy	ASBC visited home to give advice on breastfeeding	24	2.1%	167	15.3%
		Participated in at least one group meeting about breastfeeding at the CSPS	171	14.7%	459	42.0%
	Postpartum	Participated in at least one group meeting about breastfeeding in village	46	4.0%	265	24.3%

Table S5: Reported exposure to interventions similar to those in the A&T initiative among mothers with an infant <12 months (N=2,253)

	ASBC visited home to give advice on breastfeeding	20	1.7%	138	12.6%
	Participated in at least one group meeting about breastfeeding at the CSPS	169	14.6%	348	31.9%
	Attended a village event organised to discuss breastfeeding	12	1.0%	84	7.7%
	Discussed with a health worker 1+ times	754	64.9%	1,097	93.1%
	Received a home visit by an ASBC 1+ times		3.0%	244	22.3%
	Participated in at least 1 causerie at a CSPS	227	19.6%	508	46.5%
	Participated in at least 1 causerie in the village	122	10.5%	397	36.4%
OVERALL	Participated in at least 1 causerie	325	28.0%	676	61.9%
	Attended a village event	12	1.0%	84	7.7%
	Had at least one exposure to one or more of the above	791	68.1%	1,050	96.2%
	Mean exposures* (SD)	2.6 (3.0)	2.6 (3.0)		•
	Median exposures* (IQR)	2 (0, 4)		5 (3, 9)	

 Table S6: Association between reported exposure to components similar to those in the A&T initiative among mothers living in the intervention arm and the study outcomes

		% Outcome	Risk difference	95% CI		p-value
Outcome: exclusive breastfeeding an	nong infants	s <6m (N=552)				
Discussion with a health worker 1+	No	81.8%	Ref.			
times	Yes	94.0%	12.2%	-4.8%	29.2%	0.087
Received a home visit 1+ times	No	92.2%	Ref.			
	Yes	96.9%	4.6%	0.3%	8.9%	0.036
Participated in at least 1 causerie at	No	91.3%	Ref.			
a CSPS	Yes	95.7%	4.4%	0.5%	8.3%	0.028
Participated in at least 1 causerie at	No	91.6%	Ref.			
a village	Yes	96.4%	4.7%	-2.0%	11.5%	0.171
Participated in at least 1 causerie	No	89.0%	Ref.			
	Yes	95.4%	6.4%	0.4%	12.4%	0.038
Attended a village event	No	93.2%	Ref.			
	Yes	95.7%	2.5%	-5.1%	10.0%	0.523
Had at least one exposure	No	73.7%	Ref.			
	Yes	94.0%	20.3%	-6.6%	47.2%	0.139
Outcome: early initiation of breastfo	eding amon	g infants <12m (N	(=1,092)			
Discussion with a health worker 1+	No	16.0%	Ref.			
times	Yes	38.4%	22.3%	12.2%	32.5%	< 0.001
Received a home visit 1+ times	No	34.3%	22.3% Ref.	12.270	32.3%	
	Yes	45.5%	11.2%	1.5%	20.8%	0.023
Participated in at least 1 causerie at a	No	27.2%		1.3%	20.8%	
CSPS	Yes	47.8%	Ref.	12.00/	28.20/	< 0.001
Participated in at least 1 causerie at a	No	33.7%	20.6%	12.9%	28.3%	
village	Yes	42.3%	Ref.	0.5%	1.1.504	0.005
Participated in at least 1 causerie	No	25.4%	8.6	2.7%	14.6%	
r articipated in at least 1 eauserie	Yes	42.2%	Ref.			< 0.001
Attended a village event		36.7%	16.8%	9.3%	24.3%	
Attended a village event	No		Ref.			0.159
TT 1 / 1 /	Yes	38.1%	1.4%	-13.2%	15.9%	
Had at least one exposure	No	11.9%	Ref.			< 0.001
	Yes	37.8%	25.9%	16.9%	34.9%	
Outcome: gave colostrum among inf	fants <12m (N=1,092)				
Discussion with a health worker 1+	No	93.3%	Ref.			0.379
times	Yes	96.2%	2.8%	-3.5%	9.1%	
Received a home visit 1+ times	No	95.6%	Ref.			0.303
	Yes	97.1%	1.5%	-1.3%	4.3%	0.505
Participated in at least 1 causerie at a CSPS	No	93.8%	Ref.			0.017
	Yes	98.4%	4.6%	0.8%	8.4%	0.017
Participated in at least 1 causerie at	No	94.7%	Ref.			0.014
a village	Yes	98.2%	3.6%	0.7%	6.4%	0.014
Participated in at least 1 causerie	No	91.4%	Ref.	Ī		0.006

	Yes	98.1%	6.7%	1.9%	11.4%	
	No	95.6%	Ref.			0.071
Attended a village event	Yes	100.0%	4.4%	3.1%	5.6%	0.051
TT 1 / 1 /	No	88.1%	Ref.		•	0.157
Had at least one exposure	Yes	96.3%	8.2%	-3.2%	19.5%	0.157
Outcome: no pre-lacteal feeds amo	ng infants <1	12m (N=1,092)				
Discussion with a health worker	No	96.0%	Ref.			0.076
1+ times	Yes	99.5%	3.5%	-0.4%	7.4%	0.076
Received a home visit 1+ times	No	99.1%	Ref.			0 1279
	Yes	100.0%	0.9%	0.3%	1.6%	0.1278
Participated in at least 1 causerie at	No	98.6%	Ref.			0.000
a CSPS	Yes	100%	1.3%	0.4%	2.3%	0.008
Participated in at least 1 causerie at	No	99.3%	Ref.			0.020
a village	Yes	99.3%	-0.0%	-1.0%	0.9%	0.939
	No	98.6%	Ref.			0.221
Participated in at least 1 causerie	Yes	99.6%	1.0%	-0.6%	2.7%	0.221
A.(. 1 1 11)	No	99.2%	Ref.			0.412
Attended a village event	Yes	100.0%	0.8%	0.2%	1.3%	0.413
II-1-(1	No	95.2%	Ref.	·		0.107
Had at least one exposure	Yes	99.4%	4.2%	-2.2%	10.6%	0.197