

EFFECT OF HOME-BASED CHILD CARE ON CHILDHOOD MORTALITY IN RURAL MAHARASHTRA, INDIA: A CLUSTER RANDOMIZED CONTROLLED TRIAL.

Supplementary tables:

Table 1S: Household level characteristics of U5 children in Control and Intervention area

Variable	Category	Control	Intervention
		N=4426	N=3230
Main occupation [n (%)]	Farmer	2382 (53.8)	1421 (43.9)
	Labour	96 (2.2)	31 (0.9)
	Government job	12 (0.3)	27 (0.8)
	Private job	1360 (30.7)	1190 (36.8)
	Unemployed* ¹	576 (13.0)	561 (17.4)
Agriculture [n (%)]	Yes	2160 (48.8)	1305 (40.4)
Wall Type* ² [n (%)]	Kaccha	3348 (75.6)	2306 (71.4)
Roof Type* ³ [n (%)]	Kaccha	3320 (75.0)	2222 (68.8)
Electricity [n (%)]	Yes	334 (7.5)	328 (10.2)
House ownership [n (%)]	Yes	3680 (83.1)	2513 (77.8)
Use of toilet [n (%)]	Yes	240 (5.4)	258 (7.9)
Cooking facility* ⁴ [n (%)]	Wood	3380 (76.4)	2594 (80.3)
Separate kitchen [n (%)]	Yes	1046 (23.6)	378 (11.7)
Drinking water source [n (%)]	Well	836 (15.5)	609 (18.9)
	Hand pump	1649 (37.3)	972 (30.1)
	Tap	645 (14.6)	681 (21.1)
	Well & hand pump	301 (6.8)	248 (7.7)
	Well & Tap	305 (6.9)	96 (2.9)
	Others* ⁵	690 (15.6)	624 (19.3)
Vehicle [n (%)]	None	3113 (70.3)	2184 (67.6)
	Bullock cart / Cycle or both	1203 (27.2)	938 (29.0)
	Others* ⁶	110 (2.5)	108 (3.3)
Media [n (%)]	None	4083 (92.3)	2856 (88.4)
	Radio / newspaper / both	343 (7.8)	374 (11.6)
Animals [n (%)]	None	2797 (63.2)	2068 (64.0)
	Cattle	1629 (36.8)	1162 (35.9)
Community type [n (%)]	Tribal	3792 (85.7)	2695 (83.4)
	Others* ⁷	634 (14.3)	535 (16.6)
Caste [n (%)]	Korku	3488 (78.8)	2411 (74.6)
	Other castes* ⁸	938 (21.2)	819 (25.4)
Mother literacy [n (%)]	Literate	1663 (37.6)	1306 (40.4)
Father literacy [n (%)]	Literate	2720 (61.5)	2125 (65.8)

*¹No work / household work; *²Kaccha wall: Made up of soil; *³Kaccha roof: Made up of tin/ thatch / mixed material; *⁴Others used Kerosene / Gas / Sigri; *⁵Pond / River / Hand pump & River / Well & River or not fixed; *⁶Bullock cart with two-wheeler or four-wheeler; *⁷Non-tribals and others; *⁸Gond, Bhilala, Mongia, Gavlan, Balai

Table 2S: Comparison of mortality rates in Control and Intervention groups from 2004-2009 [Secondary outcomes]

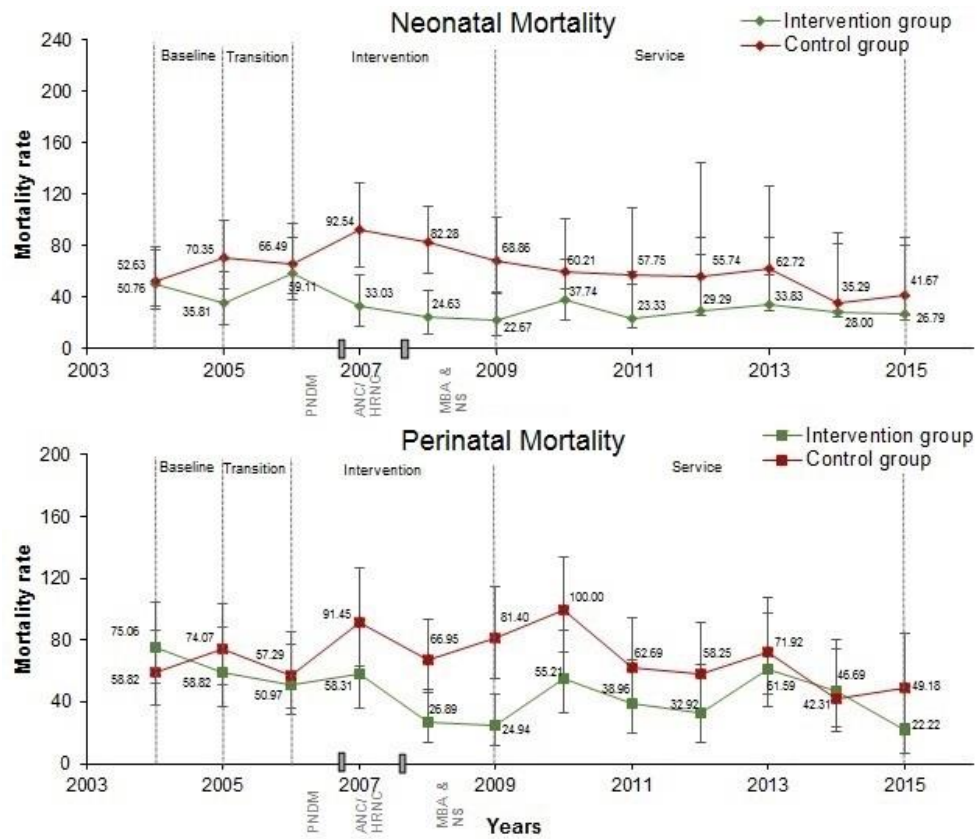
	Year	CONTROL					INTERVENTION					Absolute change in IRR between intervention and control arm (95% CI), P-value	
		Live Births	Deaths	Rate	Incidence Rate Ratio (95% CI), P-value		Live Births	Deaths	Rate	Incidence Rate Ratio (95% CI), P-value			
					Crude IRR	Adjusted* IRR				Crude IRR	Adjusted* IRR	Crude	Adjusted*
Neonatal Mortality	2004	399	21	52.63	REF	REF	394	20	50.76	REF	REF		
	2005	398	28	70.35	1.34 (0.76 - 2.35), 0.31	1.23 (0.71 - 2.16), 0.46	363	13	35.81	0.71 (0.35 - 1.42), 0.33	0.83 (0.43 - 1.58), 0.57	0.53 (0.22 - 1.30); 0.17	0.67 (0.29 - 1.59); 0.18
	2006	376	25	66.49	1.26 (0.71 - 2.26), 0.43	1.18 (0.68 - 2.08), 0.55	406	24	59.11	1.16 (0.64 - 2.11), 0.61	1.16 (0.65 - 2.10), 0.59	0.92 (0.40 - 2.11); 0.84	0.98 (0.44 - 2.21); 0.48
	2007	335	31	92.54	1.75 (1.01 - 3.09), 0.04	1.75 (1.05 - 2.99), 0.03	333	11	33.03	0.65 (0.30 - 1.35), 0.25	0.63 (0.29 - 1.28), 0.21	0.37 (0.14 - 0.95); 0.04	0.36 (0.14 - 0.89); 0.02
	2008	474	39	82.28	1.56 (0.92 - 2.27), 0.09	1.47 (0.88 - 2.51), 0.14	406	10	24.63	0.49 (0.23 - 1.04), 0.06	0.48 (0.22 - 0.98), 0.05	0.31 (0.13 - 0.76); 0.01	0.33 (0.13 - 0.81); 0.00
	2009	334	23	68.86	1.31 (0.72 - 2.38), 0.38	1.01 (0.57 - 1.79), 0.98	397	9	22.67	0.45 (0.20 - 0.98), 0.04	0.44 (0.19 - 0.93), 0.04	0.34 (0.13 - 0.93); 0.03	0.44 (0.16 - 1.16); 0.04

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		Live Births	Deaths	Rate	Incidence Rate Ratio (95% CI), P-value		Live Births	Deaths	Rate	Incidence Rate Ratio (95% CI), P-value			
					Crude IRR	Adjusted* IRR				Crude IRR	Adjusted* IRR	Crude	Adjusted*
Perinatal Mortality	2004	408	24	58.82	REF	REF	413	31	75.06	REF	REF		
	2005	405	30	74.07	1.26 (0.74 - 2.15), 0.40	1.14 (0.67 - 1.94), 0.63	374	22	58.82	0.78 (0.45 - 1.35), 0.39	0.85 (0.51 - 1.42), 0.54	0.62 (0.29 - 1.33); 0.22	0.74 (0.36 - 1.56); 0.22
	2006	384	22	57.29	0.97 (0.55 - 1.74), 0.93	0.95 (0.54 - 1.66), 0.86	412	21	50.97	0.68 (0.39 - 1.18), 0.17	0.68 (0.39 - 1.15), 0.15	0.70 (0.32 - 1.56); 0.38	0.72 (0.33 - 1.56); 0.20
	2007	339	31	91.45	1.55 (0.91 - 2.65), 0.11	1.47 (0.89 - 2.45), 0.13	343	20	58.31	0.78 (0.44 - 1.36), 0.38	0.77 (0.44 - 1.32), 0.36	0.50 (0.23 - 1.09); 0.08	0.52 (0.25 - 1.10); 0.04
	2008	478	32	66.95	1.14 (0.67 - 1.93), 0.63	1.05 (0.63 - 1.78), 0.85	409	11	26.89	0.36 (0.18 - 0.71), 0.00	0.36 (0.17 - 0.68), 0.00	0.32 (0.13 - 0.75); 0.01	0.34 (0.14 - 0.82); 0.01
	2009	344	28	81.4	1.38 (0.80 - 2.39), 0.24	1.09 (0.64 - 1.86), 0.75	401	10	24.94	0.33 (0.16 - 0.68), 0.00	0.33 (0.15 - 0.64), 0.00	0.24 (0.09 - 0.59); 0.00	0.30 (0.12 - 0.74); 0.00

*Adjusted for sex, wealth index of individual and village/cluster status using log-binomial regression; P-values equal to 0.00 should be read as < 0.01

Figure 1S: Line plots showing neonatal and perinatal mortality rates in intervention and control areas in different phases across time.



PNDM: Post-Natal Disease Management; ANC: Antenatal Care; HRNC: High Risk New-born Care; MBA: Management of Birth Asphyxia; NS: Neonatal Sepsis.