

Table S1: Routine Immunisation coverage (Antigen wise as per EPI programme)

	TOTAL=452
Immunisation Status	N = 452
Fully immunized [‡]	70 (15.5)
Partially immunized	305 (67.5)
Not immunized	77 (17.0)
At Birth	N = 452
Bacillus Calmette-Guérin (BCG)	
Antigen Not Received	90 (19.9)
Antigen Received (Based on Card or Recall)	362 (80.1)
Oral Polio Vaccine (OPV0)	
Antigen Not Received	82 (18.1)
Antigen Received (Based on Card or Recall)	370 (81.9)
At 6 Weeks	N = 452
Pentavalent (Penta1)	
Antigen Not Received	132 (29.2)
Antigen Received (Based on Card or Recall)	320 (70.8)
Oral Polio Vaccine (OPV1)	
Antigen Not Received	272 (60.2)
Antigen Received (Based on Card or Recall)	180 (39.8)
Pneumococcal Conjugate Vaccine (PCV1)	
Antigen Not Received	138 (30.5)
Antigen Received (Based on Card or Recall)	314 (69.5)
Rotavirus vaccine (RV1)	
Antigen Not Received	139 (30.8)
Antigen Received (Based on Card or Recall)	313 (69.2)
At 10 Weeks	N = 423
Pentavalent (Penta2)	
Antigen Not Received	178 (42.1)
Antigen Received (Based on Card or Recall)	245 (57.9)
Oral Polio Vaccine (OPV2)	
Antigen Not Received	298 (70.4)
Antigen Received (Based on Card or Recall)	125 (29.6)
Pneumococcal Conjugate Vaccine (PCV2)	
Antigen Not Received	180 (42.6)
Antigen Received (Based on Card or Recall)	243 (57.4)
Rotavirus vaccine (RV2)	
Antigen Not Received	177 (41.8)
Antigen Received (Based on Card or Recall)	246 (58.2)
At 14 Weeks	N = 381
Pentavalent (Penta3)	
Antigen Not Received	212 (55.6)
Antigen Received (Based on Card or Recall)	169 (44.4)

Oral Polio Vaccine (OPV3)	
Antigen Not Received	306 (80.3)
Antigen Received (Based on Card or Recall)	75 (19.7)
Pneumococcal Conjugate Vaccine (PCV3)	
Antigen Not Received	217 (57.0)
Antigen Received (Based on Card or Recall)	164 (43.0)
Inactivated poliovirus vaccine (IPV1)	
Antigen Not Received	204 (53.5)
Antigen Received (Based on Card or Recall)	177 (46.5)
At 9 Months	N = 198
Measles1	
Antigen Not Received	79 (39.9)
Antigen Received (Based on Card or Recall)	119 (60.1)
Inactivated poliovirus vaccine (IPV2)	
Antigen Not Received	163 (82.3)
Antigen Received (Based on Card or Recall)	35 (17.7)
Typhoid	
Antigen Not Received	165 (83.3)
Antigen Received (Based on Card or Recall)	33 (16.7)
At 15 Months	N = 126
Measles2	
Antigen Not Received	50 (39.7)
Antigen Received (Based on Card or Recall)	76 (60.3)

Table S2: Baseline Characteristics of Children by Poor Clinical Outcome

	Total	Poor Clinical Outcome ^y		Unadjusted			Adjusted		
		Yes	No						
	N=452	N=4	N=448						
	n (%)	n (%)	n (%)	OR	95% CI	P	OR	95% CI	P
Child Characteristics									
Age category (in months)									
02-11	293 (64.8)	3 (75.0)	290 (64.7)	1.63	(0.17,15.84)	0.672	-	-	-
12-59	159 (35.2)	1 (25.0)	158 (35.3)	1			-	-	-
Sex									
Male	273 (60.4)	4 (100.0)	269 (60.0)	-	-	-	-	-	-
Female	179 (39.6)	0 (0.0)	179 (40.0)	-	-	-	-	-	-
Weight for Age Z-score									
<=-3	137 (30.3)	2 (50.0)	135 (30.1)	3.05	(0.27,33.99)	0.364	1.266	(0.071,22.442)	0.872
-3 < WAZ <=-2	108 (23.9)	1 (25.0)	107 (23.9)	1.93	(0.12,31.08)	0.644	1.691	(0.094,30.292)	0.721
<-2	207 (45.8)	1 (25.0)	206 (46.0)	1			1		
Height for Age Z-score									
<=-3	119 (26.3)	1 (25.0)	118 (26.3)	1.03	(0.09,11.47)	0.981	-	-	-
-3 < HAZ <=-2	88 (19.5)	1 (25.0)	87 (19.4)	1.4	(0.13,15.6)	0.786	-	-	-
<-2	245 (54.2)	2 (50.0)	243 (54.2)	1			-	-	-
Weight for Length Z-score									
<-3	68 (15.0)	1 (25.0)	67 (15.0)	2.25	(0.2,25.14)	0.511	-	-	-
-3 <= WLZ <-2	81 (17.9)	1 (25.0)	80 (17.9)	1.88	(0.17,21.01)	0.608	-	-	-
>=-2	303 (67.0)	2 (50.0)	301 (67.2)	1			-	-	-
Socio Economic Status									
Parent's Educated									
Both Uneducated	332 (73.6)	2 (66.7)	330 (73.7)	0.07	(0.01,0.86)	0.037	0.032	(0.001,0.542)	0.018
Both Educated	36 (8.0)	0 (0.0)	36 (8.0)	1			1		
Only Father Educated	70 (15.5)	0 (0.0)	70 (15.6)	-	-	-	-	-	-
Only Mother Educated	13 (2.9)	1 (33.3)	12 (2.7)	-	-	-	-	-	-

Clinical Characteristics									
Temperature Category									
<37	46 (11.2)	1 (33.3)	45 (11.1)	3.84	(0.34,43.25)	0.276	-	-	-
37.0 - 38.9	348 (84.9)	2 (66.7)	346 (85.0)	1			-	-	-
>38.0 - 38.9	16 (3.9)	0 (0.0)	16 (3.9)	-	-	-	-	-	-
Immunisation status									
Fully immunized	70 (15.5)	0 (0.0)	70 (15.6)	-	-	-	1		
Partially immunized	305 (67.5)	3 (75.0)	302 (67.4)	1			3.183	(0.191,52.862)	0.419
Not immunized	77 (17.0)	1 (25.0)	76 (17.0)	1.33	(0.14,12.91)	0.809			
Name of Medicine									
Oral amoxicillin	282 (62.4)	1 (25.0)	281 (62.7)	1			-	-	-
Oral cefixime	114 (25.2)	3 (75.0)	111 (24.8)	7.6	(0.78,73.79)	0.081	-	-	-
Oral amoxicillin/clavulanic acid	25 (5.5)	0 (0.0)	25 (5.6)	-	-	-	-	-	-
Oral azithromycin	18 (4.0)	0 (0.0)	18 (4.0)	-	-	-	-	-	-
Others*	13 (2.9)	0 (0.0)	13 (2.9)	-	-	-	-	-	-

WAZ - Weight for age, HAZ - Height-for-age Z-score, WHZ - Weight-for-height z-score

¥Poor clinical outcome" indicates children who either died or were hospitalised between Day 1 and Day 15 of follow-up. Children not meeting these criteria were categorised as "No.

*Other medicines including Cefpodoxime, Cephalexin, Ciprofloxacin, Sulfamethoxazole-trimethoprim, Fosfomycin, and Linzolid

OR; Odds Ratio, CI; confidence Interval

Adjusted for Weight-for-Age Z score, parental education, and immunisation status.

Table S3: Addendum Data on Amoxicillin Stockouts at the time of enrolment

Addendum Information

	Total N=246
If the caregiver adhered to the advice, from where did they get antibiotics?	
Antibiotics provided by the health facility free of cost	134 (54.5)
Antibiotics purchased by the caregiver	111 (45.1)
Any other, specify	1 (0.4)
If a full course of antibiotics was not utilised / consumed, what was the reason?	
Completed the course	134 (54.5)
Improved	90 (36.6)
No improvement	22 (8.9)
Is the child on any treatment for chest indrawing pneumonia at the time of follow-up visit?	
Yes	32 (13.0)
No	214 (87.0)
Specify the type of treatment that the child is receiving at follow-up	
Out-patient treatment	31 (97)
In-patient treatment	1 (3)
If on OPD treatment at the time of follow-up, type of health facility/clinic/ health care provider giving treatment	
Government health facility	5 (16)
Private health facility	24 (77)
Over the counter drug purchase /self-medication by the caregiver	2 (6)
If on OPD treatment at the time of follow-up, was the child given antibiotics?	
Yes	31 (100)
If on OPD treatment at the time of follow-up, details of antibiotic: Name of medicine	
Amoxil	2 (6)
Augmentin	1 (3)
Azithromycin	6 (19)
Cefalor	2 (6)
Cefixime	15 (48)
Clarithromycin	2 (6)
Cofex	1 (3)
Entamizole	1 (3)
Levofloxacin	1 (3)
Is the child admitted in the hospital at the time of the visit?	
yes	1 (3)
No	31 (97)
If currently admitted at the time of follow-up visit, type of health facility/clinic	
Government hospital	1 (100)
Is the child admitted in the hospital at the time of the visit?	
Yes	1 (3)
No	31 (97)
If currently admitted at the time of follow-up visit, type of health facility/clinic	
Government hospital	1 (100)

Table S4: Details of antibiotics prescribed at each health facility

Name of oral antibiotics given to children followed up (n=452)	Health Facility Location			Total
	BHU Dhabeji N=131	RHC Varr N=156	RHC Jungshahi N=169	
Oral amoxicillin	122 (93.1%)	132 (84.6%)	28 (16.6%)	282 (61.8%)
Oral cefixime	1 (0.8%)	17 (10.9%)	96 (56.8%)	114 (25.0%)
Oral amoxicillin/clavulanic acid	0 (0.0%)	1 (0.6%)	24 (14.2%)	25 (5.5%)
Oral azithromycin	1 (0.8%)	4 (2.6%)	13 (7.7%)	18 (3.9%)
Others*	5 (3.8%)	0 (0.0%)	8 (4.7%)	13 (2.9%)
Missing†	2 (1.5%)	2 (1.3%)	0 (0.0%)	4 (0.9%)

BHU - Basic health unit, RHC - Rural health Centre

* Other medicines including Cefpodoxime, Cephalexin, Ciprofloxacin, Sulfamethoxazole-trimethoprim, Fosfomycin, and Linezolid

†Lost to follow-up