

## SUPPLEMENTARY TABLES

**Table S1** Population and Sample Characteristics of 32 Study Villages in Orissa, India

Characteristics	Flooded	Non-flooded
No. of villages surveyed	14	18
Population*	30372	35225
No. of children aged 0-6 y (% of total population)*	3862 (12.7)	4354 (12.4)
Scheduled caste (% of total population)*	6542 (21.5)	7989 (22.7)
Literacy*	21660 (71.3)	24333 (69.1)
Workers class*	7832 (25.8)	10556 (30.0)
No. of households per village, mean (range)*	518 (225-1977)	428 (147-1083)
Total no. of households (no. of households surveyed)	7248 (758)	7700 (816)
Percentage of households surveyed per village, mean (SD)	10.4 (0.1)	10.6 (0.1)
Percentage of households surveyed with at least one child 6-59 mo, mean (SD)	23.6 (10.0)	18.1 (7.4)
Percentage of population surveyed aged 6-59 mo	4.9	4.0
No. of children 6-59 mo living in the households surveyed (% measured)	227 (84.1)	186 (86.6)
*Census of India 2001		

**Table S2** Factors Associated with Stunting in Children Aged 6 to 59 Months in 29 Study Villages in Orissa, India (N=352)<sup>a</sup>

Factor	Stunting			
	Crude PR (95% CI)	P Value	Adjusted PR (95% CI)	P Value
Flood exposure level				
Household in non-flooded village	1 [Reference]		1 [Reference]	
Household in flooded village	1.69 (1.21-2.36)	0.002	1.60 (1.05-2.44)	0.031
Household size	0.99 (0.94-1.04)	0.74	1.00 (0.94-1.06)	0.96
No. of children younger than 5 y				
1	1 [Reference]		1 [Reference]	
≥ 2	1.14 (0.74-1.39)	0.93	0.91 (0.64-1.28)	0.58
Occupation				
Non-manual	1 [Reference]		1 [Reference]	
Agricultural	0.89 (0.55-1.45)	0.65	1.10 (0.63-1.94)	0.73
Manual	1.03 (0.64-1.66)	0.89	1.18 (0.69-2.01)	0.55
Not working	1.12 (0.62-2.15)	0.70	1.33 (0.72-2.45)	0.37
Religion				
Hindu	1 [Reference]		1 [Reference]	
Muslim	1.46 (1.03-2.07)	0.036	1.30 (0.76-2.22)	0.34
Caste				
General class	1 [Reference]		1 [Reference]	
Scheduled caste	1.29 (0.80-2.07)	0.30	1.16 (0.70-1.91)	0.56
Other backward class	1.16 (0.79-1.70)	0.46	1.08 (0.69-1.68)	0.74
Monthly income, thousand INR				
> 9	1 [Reference]		1 [Reference]	
> 6-9	0.84 (0.49-1.44)	0.52	1.02 (0.58-1.81)	0.94
> 3-6	1.11 (0.74-1.65)	0.61	1.20 (0.77-1.88)	0.42
≤ 3	1.65 (1.04-2.36)	0.032	1.85 (1.11-3.09)	0.019
Source of drinking water (at the time of the interview)				
Well and tap	1 [Reference]		1 [Reference]	
Surface water	1.41 (0.99-2.00)	0.052	1.02 (0.72-1.45)	0.92
Storage of cooked food				
Closed container	1 [Reference]		1 [Reference]	
Open container	1.03 (0.61-1.72)	0.91	0.99 (0.59-1.66)	0.96
Refrigerator	1.27 (0.43-3.79)	0.66	1.23 (0.46-3.25)	0.68
Birth weight, kg				
≥ 2.7	1 [Reference]		1 [Reference]	
< 2.7	1.17 (0.86-1.60)	0.31	1.17 (0.85-1.62)	0.34
Sex				
Male	1 [Reference]		1 [Reference]	
Female	1.26 (0.93-1.72)	0.14	1.34 (0.97-1.84)	0.075
Age, mo				
> 6-18	1 [Reference]		1 [Reference]	
> 18-26	1.07 (0.65-1.77)	0.80	1.06 (0.63-1.78)	0.82

> 26-36	1.15 (0.73-1.83)	0.54	1.18 (0.72-1.92)	0.51
> 36-46	1.03 (0.63-1.68)	0.91	1.05 (0.64-1.69)	0.85
> 46-60	1.07 (0.66-1.75)	0.78	1.05 (0.65-1.72)	0.83
Immunization coverage				
Total	1 [Reference]		1 [Reference]	
Partial	1.23 (0.79-1.91)	0.36	0.92 (0.58-1.46)	0.73

Abbreviations: CI, confidence interval; PR, prevalence ratio.

<sup>a</sup>One observation with missing data on household size, number of children younger than 5 y, income, storage of cooked food, birth weight and sex, and two observations with missing data on caste were deleted in the univariate analyses. Four observations with missing data were deleted from the adjusted analysis. APRs were adjusted for the effect of household size, number of children younger than 5 years, occupation, religion, caste, monthly income, source of drinking water and storage of cooked food, and child birth weight, sex, age and immunization coverage.

**Table S3** Factors Associated with Underweight in Children Aged 6 to 59 Months in 29 Study Villages in Orissa, India (N=351)<sup>a</sup>

Factor	Underweight			
	Crude PR (95% CI)	P Value	Adjusted PR (95% CI)	P Value
Flood exposure level				
Household in non-flooded village	1 [Reference]		1 [Reference]	
Household in flooded village	1.60 (0.98-2.59)	0.060	1.86 (1.04-3.30)	0.036
Household size	0.96 (0.88-1.04)	0.35	0.93 (0.85-1.03)	0.16
No. of children younger than 5 y				
1	1 [Reference]		1 [Reference]	
≥ 2	1.71 (1.08-2.71)	0.021	1.69 (1.05-2.72)	0.031
Occupation				
Non-manual	1 [Reference]		1 [Reference]	
Agricultural	1.52 (0.66-3.50)	0.33	1.52 (0.60-3.83)	0.38
Manual	1.67 (0.73-3.82)	0.23	1.86 (0.77-4.47)	0.17
Not working	1.07 (0.34-3.26)	0.91	1.10 (0.33-3.65)	0.87
Religion				
Hindu	1 [Reference]		1 [Reference]	
Muslim	1.03 (0.56-2.59)	0.92	1.10 (0.49-2.48)	0.82
Caste				
General class	1 [Reference]		1 [Reference]	
Scheduled caste	1.11 (0.59-2.08)	0.75	0.97 (0.53-1.77)	0.91
Other backward class	0.73 (0.43-1.23)	0.24	0.68 (0.37-1.24)	0.21
Monthly income, thousand INR				
> 9	1 [Reference]		1 [Reference]	
> 6-9	1.74 (0.84-3.59)	0.14	2.01 (0.89-4.54)	0.095
> 3-6	1.35 (0.69-2.61)	0.38	1.22 (0.57-2.59)	0.60
≤ 3	2.14 (1.01-4.56)	0.049	1.76 (0.78-3.99)	0.18
Source of drinking water (at the time of the interview)				
Well and tap	1 [Reference]		1 [Reference]	
Surface water	1.31 (0.76-2.28)	0.33	0.99 (0.58-1.71)	0.98
Storage of cooked food				
Closed container	1 [Reference]		1 [Reference]	
Open container	1.03 (0.61-1.72)	0.91	1.22 (0.59-2.52)	0.60
Refrigerator	NA	NA	NA	NA
Birth weight, kg				
≥ 2.7	1 [Reference]		1 [Reference]	
< 2.7	1.82 (1.13-2.95)	0.015	1.80 (1.11-2.92)	0.017
Sex				
Male	1 [Reference]		1 [Reference]	
Female	0.99 (0.63-1.57)	0.97	0.90 (0.57-1.42)	0.65
Age, mo				

> 6-18	1 [Reference]		1 [Reference]	
> 18-26	0.67 (0.24-1.89)	0.45	0.75 (0.27-2.12)	0.59
> 26-36	1.60 (0.76-3.36)	0.22	2.05 (0.98-4.28)	0.056
> 36-46	1.76 (0.84-3.68)	0.13	1.94 (0.94-4.02)	0.076
> 46-60	1.99 (0.97-4.12)	0.063	1.99 (0.98-4.04)	0.057
Immunization coverage				
Total	1 [Reference]		1 [Reference]	
Partial	1.26 (0.66-2.43)	0.48	1.08 (0.58-1.99)	0.81

Abbreviations: CI, confidence interval; PR, prevalence ratio.

<sup>a</sup>One observation with missing data on underweight was deleted from all the analyses. One observation with missing data on household size, number of children younger than 5 y, income, storage of cooked food, birth weight and sex and two observations with missing data on caste were deleted in the univariate analyses. Four observations with missing data were deleted from the adjusted analysis. APRs were adjusted for the effect of household size, number of children younger than 5 years, occupation, religion, caste, monthly income, source of drinking water and storage of cooked food, and child birth weight, sex, age and immunization coverage.

**Table S4** Factors Associated with Wasting in Children Aged 6 to 59 Months in 29 Study Villages in Orissa, India (N=347)<sup>a</sup>

Factor	Wasting			
	Crude PR (95% CI)	P Value	Adjusted PR (95% CI)	P Value
Flood exposure level				
Household in non-flooded village	1 [Reference]		1 [Reference]	
Household in flooded village	1.08 (0.61-1.91)	0.79	1.21 (0.61-2.42)	0.58
Household size	0.96 (0.88-1.04)	0.35	0.98 (0.87-1.09)	0.69
No. of children younger than 5 y				
1	1 [Reference]		1 [Reference]	
≥ 2	1.47 (0.84-2.58)	0.17	1.29 (0.68-2.45)	0.43
Occupation				
Non-manual	1 [Reference]		1 [Reference]	
Agricultural	1.52 (0.66-3.50)	0.31	1.66 (0.50-5.54)	0.41
Manual	1.67 (0.73-3.82)	0.29	1.93 (0.59-6.26)	0.27
Not working	1.07 (0.34-3.26)	0.98	0.94 (0.19-4.65)	0.94
Religion				
Hindu	1 [Reference]		1 [Reference]	
Muslim	0.90 (0.40-2.03)	0.80	1.04 (0.33-3.32)	0.95
Caste				
General class	1 [Reference]		1 [Reference]	
Scheduled caste	0.64 (0.26-1.56)	0.33	0.54 (0.21-1.39)	0.20
Other backward class	0.70 (0.38-1.29)	0.26	0.72 (0.35-1.47)	0.37
Monthly income, thousand INR				
> 9	1 [Reference]		1 [Reference]	
> 6-9	1.15 (0.44-3.08)	0.77	1.27 (0.42-3.86)	0.67
> 3-6	1.44 (0.66-3.14)	0.36	1.41 (0.56-3.54)	0.47
≤ 3	2.07 (0.83-5.16)	0.12	2.13 (0.76-6.02)	0.15
Source of drinking water (at the time of the interview)				
Well and tap	1 [Reference]		1 [Reference]	
Surface water	0.81 (0.36-1.83)	0.61	0.83 (0.32-2.15)	0.70
Storage of cooked food				
Closed container	1 [Reference]		1 [Reference]	
Open container	1.22 (0.51-2.91)	0.65	1.11 (0.43-2.91)	0.83
Refrigerator	1.66 (0.28-9.91)	0.58	2.61 (0.31-21.73)	0.38
Birth weight, kg				
≥ 2.7	1 [Reference]		1 [Reference]	
< 2.7	1.41 (0.80-2.50)	0.23	1.28 (0.69-2.38)	0.46
Sex				
Male	1 [Reference]		1 [Reference]	
Female	1.44 (0.82-2.53)	0.20	1.40 (0.76-2.57)	0.28
Age, mo				
> 6-18	1 [Reference]		1 [Reference]	
> 18-26	0.67 (0.24-1.87)	0.44	0.68 (0.22-2.06)	0.49

> 26-36	0.83 (0.34-2.01)	0.68	0.93 (0.35-2.46)	0.89
> 36-46	0.81 (0.33-2.03)	0.66	0.84 (0.32-2.19)	0.72
> 46-60	1.58 (0.74-3.38)	0.24	1.58 (0.73-3.45)	0.25
Immunization coverage				
Total	1 [Reference]		1 [Reference]	
Partial	1.69 (0.69-4.12)	0.25	1.36 (0.50-3.68)	0.55

Abbreviations: CI, confidence interval; PR, prevalence ratio.

<sup>a</sup>Five observations with missing data on wasting were deleted from all the analyses. One observation with missing data on household size, number of children younger than 5 y, income, storage of cooked food, and two observations with missing data on caste were deleted in the univariate analyses. Four additional observations with missing data were deleted from the adjusted analysis. APRs were adjusted for the effect of household size, number of children younger than 5 years, occupation, religion, caste, monthly income, source of drinking water and storage of cooked food, and child birth weight, sex, age and immunization coverage.