

Additional file: The association between child stunting and water and sanitation variables, in bivariate and multivariable analyses, Lower and Upper Egypt, 2005 and 2008 EDHS

Table 1. Proportion of stunting, 6-59 months, Lower Egypt 2005 (N= 2,292) and 2008 (N = 2,293)

Factor	2005			2008		
	Total N [%]	Stunting, 6-59 months n [%]	p-value	Total N [%]	Stunting, 6-59 months n [%]	p-value
Drinking Water Source (Type)						
Piped Water	2176 [94.94]	367 [16.87]	0.176	2143 [93.46]	671 [31.31]	0.493
Toilet Facility						
Modern Flush Toilet	846 [36.91]	134 [15.84]	0.441	1020 [44.48]	341 [33.43]	0.073

Table 2. Proportion of stunting, 6-59 months, Upper Egypt 2005 (N= 3,893) and 2008 (N = 2,708)

Factor	2005			2008		
	Total N [%]	Stunting, 6-59 months n [%]	p-value	Total N [%]	Stunting, 6-59 months n [%]	p-value
Drinking Water Source (Type)						
Piped Water	3577 [91.88]	1021 [28.54]	0.294	2527 [93.32]	548 [21.69]	0.633
Toilet Facility						
Modern Flush Toilet	564 [14.49]	107 [18.97]	<0.001	530 [19.57]	15.85 [84]	<0.001

Table 3: Determinants of stunting, children 6-59 months, Lower Egypt 2005 (N= 2,292) and 2008 (N= 2,293)

Factor	Adjusted OR 2005	P-value	95% CI	Adjusted OR 2008	P-value	95% CI
Residence						
Urban (ref)	-	-	-	-	-	-
Rural	0.962	0.839	0.659, 1.403	0.990	0.958	0.678, 1.446
Age of child						
6-11 months (ref)	-	-	-	-	-	-
12-23 months	0.838	0.451	0.528, 1.333	2.267	<0.001	1.519, 3.383
24-35 months	1.001	0.974	0.609, 1.670	2.122	0.001	1.390, 3.238
36-47 months	0.458	0.006	0.264, 0.794	2.339	<0.001	1.502, 3.643
48-59 months	0.377	0.003	0.196, 0.734	1.493	0.096	0.931, 2.393
Sex of child						
Females (ref)	-	-	-	-	-	-
Males	1.029	0.836	0.781, 1.357	1.289	0.023	1.036, 1.602
Wealth Quintile						

Poorest (ref)	-	-	-	-	-	-
Poorer	0.856	0.570	0.501, 1.464	1.097	0.653	0.733, 1.642
Middle	0.815	0.458	0.474, 1.401	1.002	0.993	0.667, 1.505
Richer	0.672	0.256	0.338, 1.336	0.901	0.969	0.532, 1.524
Richest	1.328	0.471	0.612, 2.883	1.050	0.878	0.564, 1.955
Perceived size of child at birth						
Very small or Small	1.204	0.400	0.781, 1.856	1.201	0.343	0.823, 1.753
Average or Larger (ref)	-	-	-	-	-	-
Birth Intervals						
<24 months	1.146	0.546	0.736, 1.784	1.384	0.063	0.982, 1.950
24-35 months	1.142	0.534	0.750, 1.740	0.833	0.270	0.602, 1.153
36-47 months (ref)	-	-	-	-	-	-
48+ months	0.711	0.102	0.472, 1.070	1.009	0.950	0.760, 1.339
Avian influenza						
Household ownership of poultry/birds	1.046	0.801	0.736, 1.488	0.582	0.001	0.418, 0.812
Water and Sanitation						
Piped water	1.461	0.319	0.692, 3.083	1.007	0.973	0.660, 1.536
Modern Flush Toilet	0.208	0.199	0.444, 1.185	1.105	0.616	0.747, 1.635

Table 4: Determinants of stunting, children 6-59 months, Upper Egypt 2005 (N= 3,893) and 2008 (N= 2,708)

Factor	Adjusted OR 2005	P-value	95% CI	Adjusted OR 2008	P-value	95% CI
Residence						
Urban (ref)	-	-	-	-	-	-
Rural	1.119	0.540	0.780, 1.605	0.926	0.640	0.669, 1.281
Age of child						
6-11 months (ref)	-	-	-	-	-	-
12-23 months	1.449	0.013	1.082, 1.940	2.618	<0.001	1.728, 3.969
24-35 months	1.026	0.877	0.745, 1.412	1.651	0.022	1.075, 2.535
36-47 months	0.946	0.742	0.677, 1.320	1.571	0.043	1.015, 2.433
48-59 months	1.023	0.906	0.697, 1.502	1.841	0.018	1.112, 3.046
Sex of child						
Females (ref)	-	-	-	-	-	-
Males	1.226	0.042	1.007, 1.493	1.075	0.548	0.849, 1.361
Wealth Quintile						
Poorest (ref)	-	-	-	-	-	-
Poorer	0.587	<.001	0.452, 0.762	0.880	0.338	0.677, 1.143
Middle	0.594	0.001	0.437, 0.807	0.670	0.023	0.475, 0.945
Richer	0.697	0.174	0.414, 1.173	0.768	0.343	0.445, 1.326

Richest	1.044	0.922	0.440, 2.478	0.601	0.164	0.919, 1.513
Perceived size of child at birth						
Very small or Small	1.444	0.007	1.106, 1.884	1.468	0.008	1.108, 1.945
Average or Larger (ref)	-	-	-	-	-	-
Birth Intervals						
<24 months	0.967	0.812	0.733, 1.276	0.803	0.207	0.570, 1.130
24-35 months	1.043	0.767	0.790, 1.378	0.775	0.112	0.566, 1.062
36-47 months (ref)	-	-	-	-	-	-
48+ months	0.807	0.174	0.592, 1.100	0.668	0.008	0.496, 0.900
Avian influenza						
Household ownership of poultry/birds	0.933	0.507	0.761, 1.144	1.179	0.194	0.919, 1.513
Water and Sanitation						
Piped water	1.090	0.624	0.772, 1.540	0.997	0.987	0.661, 1.503
Modern Flush Toilet	0.395	0.011	0.193, 0.805	0.853	0.568	0.494, 1.474