

Supplemental Tables

Table S1. Association between rate of influenza-like illness and household covariates among household contacts under age five

Covariate	ILI episodes	Follow up time (days)	Rate per 1000 days	Rate Ratio
Maternal education level				
No Education	1,802	712,363	2.53	1.00 (REF)
Any Primary	987	402,338	2.45	0.97 (0.90, 1.05)
Any Secondary	217	109,717	1.98	0.78 (0.68, 0.90)
Household Size				
Small	454	183,105	2.48	1.00 (REF)
Medium	654	248,975	2.63	1.06 (0.94, 1.19)
Large	1,894	791,569	2.39	0.97 (0.87, 1.07)
Household Crowding				
Low	790	309,818	2.55	1.00 (REF)
Medium	1,456	584,288	2.49	0.98 (0.90, 1.07)
High	760	330,312	2.30	0.90 (0.82, 0.99)
Socioeconomic Status				
Lowest 25%	627	226,892	2.76	1.00 (REF)
Middle 50%	1,547	611,960	2.53	0.91 (0.83, 1.00)
Highest 25%	832	385,566	2.16	0.78 (0.70, 0.87)

Table S2. Association between rate of laboratory-confirmed H1N1 influenza and household covariates among household contacts under age five.

Covariate	Laboratory confirmed H1N1	Follow up time (days)	Rate per 1000 days	Rate Ratio
Maternal education level				
No Education	52	712,363	0.07	1.00 (REF)
Any Primary	32	402,338	0.08	1.09 (0.70, 1.69)
Any Secondary	5	109,717	0.05	0.62 (0.25, 1.56)
Household Size				
Small	11	183,874	0.06	1.00 (REF)
Medium	18	248,975	0.07	1.21 (0.57, 2.55)
Large	60	791,569	0.08	1.27 (0.67, 2.41)
Household Crowding				
Low	27	309,818	0.09	1.00 (REF)
Medium	49	584,288	0.08	0.96 (0.60, 1.54)
High	13	330,312	0.04	0.45 (0.23, 0.87)
Socioeconomic Status				
Lowest 25%	23	226,892	0.10	1.00 (REF)
Middle 50%	50	611,960	0.08	0.81 (0.49, 1.32)
Highest 25%	16	385,566	0.04	0.41 (0.22, 0.77)

Table S3. Assessment for effect modification of association between vaccination status and laboratory-confirmed influenza among household contacts under age five by covariates of interest

Covariate	Vaccine	Laboratory Confirmed Influenza (N)	Follow up time (days)	Rate per 1000 days	Rate Ratio	p-value EMM
Household Crowding						
Low	Influenza	42	154,050	0.27	0.92 (0.61, 1.40)	0.53
	Meningococcal	46	155,768	0.29	1.00 (REF)	
Medium	Influenza	66	286,460	0.23	1.01 (0.72, 1.42)	
	Meningococcal	68	297,828	0.23	1.00 (REF)	
High	Influenza	24	176,140	0.14	0.70 (0.41, 1.20)	
	Meningococcal	30	154,172	0.19	1.00 (REF)	
Socioeconomic Status						
Highest 25%	Influenza	26	190,364	0.14	0.74 (0.45, 1.23)	0.51
	Meningococcal	36	195,202	0.18	1.00 (REF)	
Medium 50%	Influenza	72	313,917	0.23	0.89 (0.62, 1.22)	
	Meningococcal	77	298,043	0.26	1.00 (REF)	
Lowest 25%	Influenza	34	112,369	0.30	1.12 (0.69, 1.82)	
	Meningococcal	31	114,523	0.27	1.00 (REF)	
Maternal Education Level						
No Education	Influenza	81	356,408	0.23	1.01 (0.74, 1.38)	0.49
	Meningococcal	80	355,955	0.22	1.00 (REF)	
Any Primary	Influenza	42	200,404	0.21	0.73 (0.49, 1.08)	
	Meningococcal	58	201,934	0.29	1.0 (ref)	
Any Secondary	Influenza	9	59,838	0.15	1.25 (0.44, 3.5)	
	Meningococcal	6	49,879	0.12	1.0 (ref)	

EMM: Effect measure modification

Table S4. Assessment for effect modification of association between vaccination status and influenza-like illness among household contacts under age five by covariates of interest

Covariate	Vaccine	Influenza-like illness (N)	Follow up time (days)	Rate per 1000 days	Rate Ratio	p-value EMM
Household Crowding						
Low	Influenza	366	154,050	2.38	0.87 (0.76, 1.00)	0.01
	Meningococcal	424	155,768	2.72	1.00 (REF)	
Medium	Influenza	689	286,460	2.41	0.93 (0.84, 1.03)	
	Meningococcal	767	297,828	2.58	1.00 (REF)	
High	Influenza	432	176,140	2.45	1.15 (0.99, 1.33)	
	Meningococcal	328	154,172	2.13	1.00 (REF)	
Socioeconomic Status						
Highest 25%	Influenza	374	190,364	1.96	0.84 (0.73, 0.96)	0.01
	Meningococcal	458	195,202	2.35	1.00 (REF)	
Medium 50%	Influenza	782	313,917	2.49	0.97 (0.88, 1.07)	
	Meningococcal	765	298,043	2.57	1.00 (REF)	
Lowest 25%	Influenza	331	112,369	2.95	1.14 (0.97, 1.33)	
	Meningococcal	296	114,523	2.58	1.00 (REF)	
Maternal Education Level						
No Education	Influenza	927	356,408	2.60	1.06 (0.96, 1.16)	0.01
	Meningococcal	875	355,955	2.46	1.00 (REF)	
Any Primary	Influenza	448	200,404	2.23	0.84 (0.74, 0.95)	
	Meningococcal	539	201,934	2.67	1.00 (REF)	
Any Secondary	Influenza	112	59,838	1.87	0.89 (0.68, 1.16)	
	Meningococcal	105	49,879	2.10	1.00 (REF)	

EMM: Effect measure modification