Table 2. Univariable and multivariable risk factors for secondary *Shigella* transmission to 337 contacts within 102 households*, Amsterdam, The Netherlands 2002-2009.

Exposure	Total no. Of household contacts		Any secondary transmission	Univariable	95% CI			Multivariable	95% CI		
	N	n	%	RR	lower	upper	p value	RR	lower	upper	p value
Contact characteristics (n=337 contacts)											
Total	337	25	7.4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Age-group											
≥ 6 years	260	17	6.5	ref.	ref.	ref.	ref.	ref.	ref.	ref.	ref.
0-3	48	3	6.3	1.0	0.3	3.3	0.943	1.0	0.3	3.2	0.979
4-5	29	5	17.2	2.6	1.0	6.8	0.046	1.3	0.6	3.0	0.527
Gender											
Female	171	17	9.9	ref.	ref.	ref.	ref.				
Male	166	8	4.8	0.5	0.2	1.2	0.109				
Country of birth											
Netherlands / Other Western	97	7	7.2	ref.	ref.	ref.	ref.				
Other	236	18	7.6	1.1	0.5	2.3	0.890				
Diarrhoea											
No	228	5	2.2	ref.	ref.	ref.	ref.	ref.	ref.	ref.	ref.
Yes	87	20	23.0	10.5	3.7	29.9	<0.001	8.0	2.7	23.8	<0.001
Hospitalised											
No	336	24	7.1	ref.	ref.	ref.	ref.				
Yes	1	1	100.0	-	-	-	-				
Household factors (n=102 households)											
Household size											
2-4 persons (in 61 households)	128	5	3.9	ref.	ref.	ref.	ref.	ref.	ref.	ref.	ref.
5-6 persons (in 24 households)	96	5	5.2	1.3	0.4	4.8	0.658	1.4	0.4	4.6	0.570
>6 persons (in 17 households)	113	15	13.3	3.4	1.3	8.7	0.011	3.1	0.9	10.1	0.064
Age of primary case in household											
≥ 6 years	218	11	5.1	ref.	ref.	ref.	ref.	ref.	ref.	ref.	ref.
0-3	58	6	10.3	2.1	0.8	5.5	0.152	2.6	1.0	7.1	0.061
4-5	61	8	13.1	2.6	1.2	5.7	0.018	1.9	0.8	4.5	0.163
Gender of primary case in household											
Female	174	9	5.2	ref.	ref.	ref.	ref.				
Male	163	16	9.8	1.9	0.9	4.1	0.103				
Primary case in household hospitalised											
No	264	21	8.0	ref.	ref.	ref.	ref.				
Yes	73	4	5.5	1.0	0.9	1.2	0.405				
Time from date of onset to notification of primary case											
≤1 week	95	9	9.5	ref.	ref.	ref.	ref.				
1-3 weeks	146	8	5.5	0.6	0.2	1.5	0.262				
>3 weeks	96	8	8.3	0.9	0.4	2.0	0.761				

*The unit of analysis is the individual contact (n=337) and cluster characteristics are at the household level: household size, age and gender of the primary case in the household, whether they were hospitalised and time from date of onset to notification of primary case, as above.