Supplementary Online Material

The rates of acquisition and clearance of pneumococcal serotypes in the nasopharynges of children in Kilifi District, Kenya.

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Table S1. Rates of clearance and acquisition of pneumococcal carriage and mean carriage duration by age

		Clearance		Carriage duration (days)		Acquisition	
Age (m)	N	rate/day	95%CI	Point estimate	95%Cis	rate/day	95%CI
3-5	78	0.0219	0.0163 - 0.0293	45.7	34.2 - 61.2	0.0568	0.0341 - 0.0949
6-11	220	0.0206	0.0131 - 0.0325	48.5	30.8 - 76.4	0.0782	0.0456 - 0.1341
12-17	225	0.0276	0.0175 - 0.0434	36.2	23.0 – 57.0	0.0786	0.0467 - 0.1323
18-23	230	0.0233	0.0149 - 0.0365	42.9	27.4 - 67.3	0.0564	0.0339 - 0.0937
24-29	202	0.0341	0.0217 - 0.0535	29.3	18.7 - 46.1	0.0702	0.0421 - 0.1171
30-35	199	0.0296	0.0188 - 0.0464	33.8	21.6 - 53.1	0.0525	0.0317 - 0.0872
36-41	180	0.0433	0.0275 - 0.0682	23.1	14.7 - 36.4	0.0803	0.0479 - 0.1347
42-47	190	0.0527	0.0334 - 0.0832	19.0	12.0 - 29.9	0.0834	0.0501 - 0.1390
48-53	186	0.0465	0.0295 - 0.0733	21.5	13.6 - 33.9	0.0651	0.0392 - 0.1080
54-59	158	0.0472	0.0298 - 0.0748	21.2	13.4 - 33.5	0.0498	0.0299 - 0.0829

Table S2. Rates of Immune clearance and total clearance by age

	Immune Clearance		Total Clearance	
Age (m)	**Rate**	**95% CI**	**Rate**	**95% CI**
3-5	0.0074	0.0125 - 0.0044	0.0219	0.0163 - 0.0293
6-11	0.0067	0.0152 - 0.0029	0.0206	0.0131 - 0.0325
12-17	0.0101	0.0227 - 0.0045	0.0276	0.0175 - 0.0434
18-23	0.0102	0.0226 - 0.0046	0.0233	0.0149 - 0.0365
24-29	0.0159	0.0352 - 0.0072	0.0341	0.0217 - 0.0535
30-35	0.0138	0.0304 - 0.0062	0.0296	0.0188 - 0.0464
36-41	0.0199	0.0442 - 0.009	0.0433	0.0275 - 0.0682
42-47	0.0288	0.0635 - 0.0131	0.0527	0.0334 - 0.0832
48-53	0.0280	0.0612 - 0.0128	0.0465	0.0295 - 0.0733
54-59	0.0290	0.0637 - 0.0132	0.0472	0.0298 - 0.0748
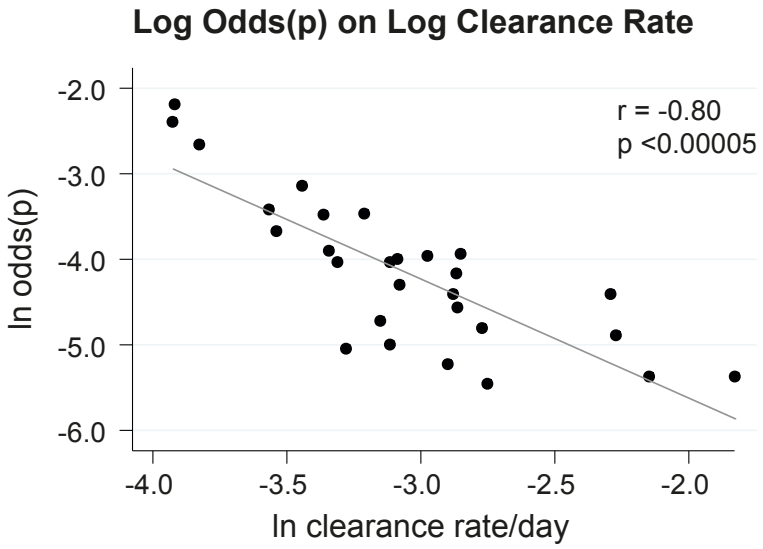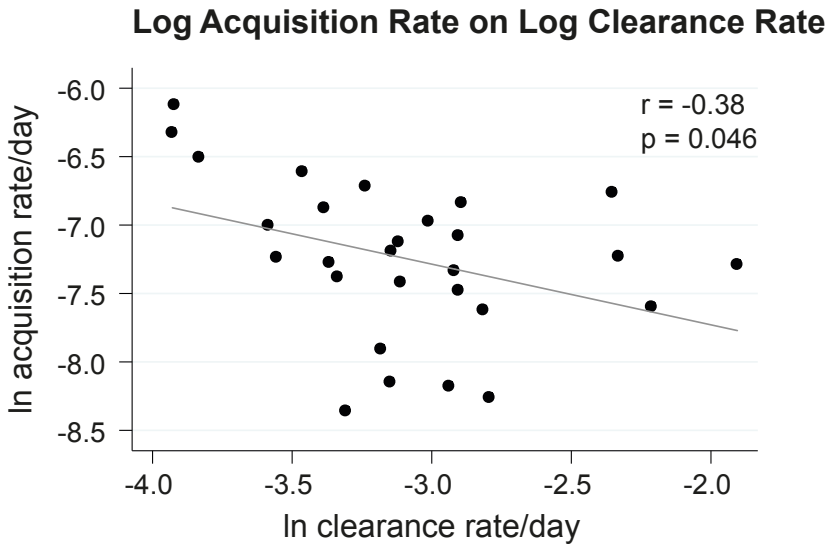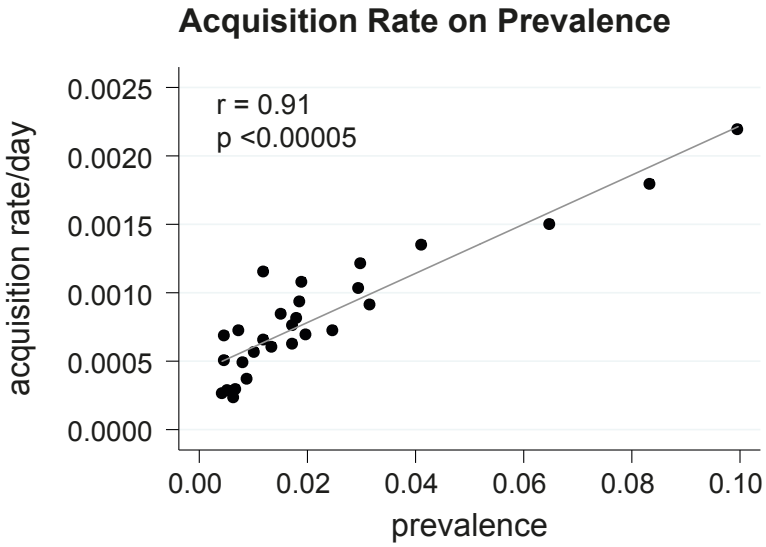
Figure S1. Scatter graphs and linear fit for serotype-specific estimates of prevalence, clearance and acquisition.