

Supplemental Digital Content 5: Risk of community-acquired pneumonia (CAP) or lower respiratory tract infection (including CAP) among children in New Zealand born between 1 January 2005 and 31 December 2012 who were dispensed at least one course of proton pump inhibitor treatment (omeprazole, lansoprazole or pantoprazole) before their first birthday *using an alternative definition of PPI exposure status*^a

	Cases	Controls	Unadjusted matched odds ratio (95% CI)	p-value	Cases	Controls	Adjusted ^b matched odds ratio (95% CI)	p-value
Definite CAP ^c	n=65	n=650			n=56	n=566		
Current use	24	230	0.90 (0.40–2.04)	0.81	21	198	1.07 (0.40–2.83)	0.89
Recent use	11	147	0.66 (0.31–1.43)	0.30	9	133	0.71 (0.29–1.74)	0.45
Past use	30	273	1.00	–	26	235	1.00	
All lower respiratory tract infection ^d	n=566	n=5650			n=502	n=5016		
Current use	226	2100	1.12 (0.88–1.43)	0.35	199	1838	1.23 (0.94–1.59)	0.13
Recent use	143	1557	0.94 (0.75–1.20)	0.63	127	1382	1.03 (0.80–1.33)	0.81
Past use	197	1993	1.00	–	176	1796	1.00	

Abbreviations: CAP, community-acquired pneumonia; CI, confidence interval

^aBased only on the ‘date dispensed’ field of the last PPI dispensing before the index date; current use: PPI dispensing within 30 days before the index date; recent use: PPI dispensing within 31 to 90 days before the index date; past use: PPI dispensing more than 90 days before the index date

^bComplete case analysis (i.e. excluding participants with missing data for any of the potential confounders) adjusted for age (days) at index date, ethnicity, socioeconomic status, community-dispensed non-topical antibiotic dispensed within 30 days before the index date, hospital admission for any diagnosis (excluding birth event) within 30 days before the index date, recorded pneumococcal conjugate vaccine status

^cPatients whose diagnosis was confirmed by discharge letter or post mortem report, and chest radiography report

^dPatients whose diagnosis was confirmed by discharge letter or post mortem report, with or without chest radiography report (includes patients who met the inclusion criteria for “definite community-acquired pneumonia”)