

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Walter ND, Taylor TH Jr, Dowell SF, Mathis S, Moore MR. Holiday spikes in pneumococcal disease among older adults. *N Engl J Med* 2009;361:2584-5.

Table 1. Age distribution of persons with invasive pneumococcal disease during non-spike and spike periods.

Age, years	Pre-vaccine period ^a					Post-vaccine period ^b				
	Non-spike cases ^c (n=3,446)		Spike cases ^d (n=1,600)		Odds ratio, (95% CI)	Non-spike cases ^c (n=3,855)		Spike cases ^d (n=179)		Odds ratio, (95% CI)
	No. of cases	% annual cases ^e	No. of cases	% annual cases ^e		No. of cases	% annual cases ^e	No. of cases	% annual cases ^e	
<5	799	76.6	244	23.4	Ref	383	96.2	15	3.8	Ref
5-17	108	73.4	36	26.5	1.18 (.80-1.75)	124	95.4	6	4.6	1.24 (0.47-3.25)
18-34	346	70.9	142	29.1	1.34 (1.05-1.71)	241	95.6	11	4.4	1.17 (0.53-2.58)
35-49	702	70.1	300	29.9	1.40 (1.15-1.70)	817	95.4	39	4.6	1.22 (.66-2.24)
50-64	483	64.3	268	35.7	1.82 (1.48-2.23)	885	96.2	35	3.8	1.01 (0.55-1.87)
65-79	555	62.4	335	37.6	1.98 (1.62-2.41)	772	94.6	44	5.4	1.46 (0.80-2.65)
80+	453	62.5	272	37.5	1.97 (1.60-2.42)	633	95.6	29	4.4	1.17 (0.62-2.21)

^a Pre-vaccine period: July 1, 1995 – June 30, 2000.

^b Post-vaccine period: July 1, 2001 – June 30, 2006.

^c Cases of invasive pneumococcal disease occurring during non-spike periods. Non-spike periods were days in December and January not included in spike periods.

^d Cases of invasive pneumococcal disease occurring during spike periods. Spike periods were days in which the 5-day simple moving average of daily rates exceeded the 95% CI surrounding the expected seasonal baseline for ≥ 5 consecutive days.

^e Percentage of total annual cases in each age group which occurred in non-spike and spike periods.