

S1 Table Geometric mean concentrations (GMC) with 95% CI of the antibody concentrations against 13 pneumococcal serotypes for the PCV10 group and the PCV13 group with p-values for differences between the groups and crude and adjusted GMC ratios with 95% CI comparing PCV13 with PCV10

Sero-type	Pre-booster			One week post-booster						One month post-booster					
	PCV13 (N=31)		PCV10 (N=57)		PCV13 (N=29)			PCV10 (N=28)			PCV13 (N=65)			PCV10 (N=66)	
	GMC (95% CI)	GMC (95% CI)	p-value	Crude GMC ratio (95% CI)	Adjusted GMC ratio* (95% CI)	GMC (95% CI)	GMC (95% CI)	p-value	Crude GMC ratio (95% CI)	Adjusted GMC ratio** (95% CI)	GMC (95% CI)	GMC (95% CI)	p-value	Crude GMC ratio (95% CI)	Adjusted GMC ratio** (95% CI)
1	0.67 (0.53-0.86)	1.05 (0.80-1.36)	0.031	0.64 (0.44-0.95)	0.70 (0.39-1.27)	16.98 (11.86-24.30)	22.75 (16.01-32.34)	0.237	0.75 (0.46-1.21)	0.69 (0.37-1.29)	11.67 (9.33-14.60)	12.20 (9.60-15.51)	0.787	0.96 (0.69-1.32)	0.98 (0.63-1.52)
4	0.24 (0.18-0.32)	0.30 (0.26-0.36)	0.123	0.79 (0.58-1.06)	0.73 (0.46-1.16)	4.50 (3.13-6.46)	4.97 (3.91-6.34)	0.641	0.90 (0.59-1.38)	0.90 (0.51-1.61)	3.25 (2.57-4.10)	3.30 (2.69-4.05)	0.912	0.98 (0.73-1.33)	0.90 (0.59-1.36)
5	0.93 (0.71-1.22)	0.87 (0.72-1.06)	0.677	1.07 (0.78-1.48)	1.31 (0.82-2.10)	14.00 (9.89-19.81)	10.77 (8.24-14.08)	0.228	1.30 (0.85-1.98)	1.30 (0.75-2.26)	11.38 (9.38-13.81)	6.67 (5.52-8.06)	<0.001	1.71 (1.31-2.22)	1.72 (1.19-2.47)
6B	0.41 (0.29-0.56)	1.07 (0.87-1.33)	<0.001	0.38 (0.26-0.54)	0.30 (0.18-0.52)	13.99 (9.41-20.78)	12.75 (10.21-15.92)	0.681	1.10 (0.71-1.70)	1.21 (0.65-2.23)	9.98 (8.00-12.47)	6.97 (5.83-8.34)	0.013	1.43 (1.08-1.89)	1.55 (1.06-2.27)
7F	2.13 (1.73-2.63)	2.29 (1.88-2.78)	0.645	0.93 (0.69-1.26)	0.91 (0.58-1.42)	16.66 (10.97-25.30)	24.64 (19.15-31.69)	0.109	0.68 (0.42-1.08)	0.81 (0.43-1.52)	14.99 (11.97-18.75)	15.89 (13.28-19.00)	0.685	0.94 (0.71-1.25)	0.99 (0.67-1.46)
9V	0.52 (0.41-0.66)	1.17 (0.98-1.39)	<0.001	0.45 (0.33-0.59)	0.51 (0.33-0.78)	16.18 (12.40-21.11)	15.45 (12.00-19.88)	0.797	1.05 (0.74-1.49)	1.19 (0.74-1.92)	10.90 (9.31-12.75)	8.64 (7.32-10.20)	0.045	1.26 (1.01-1.58)	1.45 (1.07-1.97)
14	1.75 (1.19-2.60)	1.09 (0.80-1.47)	0.059	1.61 (0.99-2.63)	1.62 (0.80-3.29)	15.09 (11.51-19.79)	9.86 (6.85-14.21)	0.059	1.53 (0.99-2.36)	1.41 (0.79-2.53)	13.92 (11.35-17.07)	7.21 (5.72-9.10)	<0.001	1.93 (1.42-2.62)	1.75 (1.17-2.64)
18C	0.66 (0.54-0.82)	1.04 (0.85-1.26)	0.004	0.64 (0.47-0.86)	0.52 (0.34-0.80)	15.23 (11.26-20.60)	16.27 (12.81-20.65)	0.728	0.94 (0.65-1.35)	1.17 (0.71-1.92)	9.81 (8.02-12.00)	12.50 (10.56-14.79)	0.067	0.78 (0.61-1.02)	0.84 (0.59-1.19)
19F	1.25 (0.75-2.11)	0.52 (0.38-0.71)	0.002	2.41 (1.39-4.17)	1.14 (0.52-2.54)	44.98 (30.40-66.55)	2.78 (1.51-5.11)	<0.001	16.19 (8.15-32.16)	17.64 (7.17-43.37)	24.37 (18.54-32.03)	2.09 (1.40-3.12)	<0.001	11.65 (7.22-18.78)	8.39 (4.42-15.93)
23F	0.44 (0.26-0.74)	0.93 (0.66-1.30)	0.013	0.47 (0.27-0.84)	0.35 (0.15-0.82)	19.44 (13.04-28.97)	14.32 (10.45-19.62)	0.225	1.36 (0.83-2.21)	1.32 (0.75-2.35)	12.35 (9.52-16.03)	7.00 (5.52-8.87)	0.002	1.77 (1.25-2.49)	1.92 (1.21-3.05)
3	0.47 (0.36-0.60)	0.25 (0.18-0.33)	0.005	1.88 (1.22-2.88)	1.53 (0.80-2.91)	4.80 (3.34-6.91)	0.16 (0.14-0.20)	<0.001	29.19 (19.69-43.28)	33.82 (19.49-58.67)	3.86 (3.19-4.67)	0.44 (0.33-0.59)	<0.001	8.83 (6.27-12.45)	9.97 (6.24-15.94)
6A	0.74 (0.51-1.08)	0.12 (0.08-0.18)	<0.001	6.31 (3.46-11.49)	3.41 (1.42-8.20)	37.86 (27.25-52.61)	1.55 (0.89-2.68)	<0.001	24.45 (13.33-44.83)	21.14 (9.11-49.05)	22.36 (18.22-27.44)	0.75 (0.51-1.13)	<0.001	29.62 (19.03-46.09)	26.88 (14.74-49.01)
19A	0.63 (0.39-1.01)	0.28 (0.21-0.37)	0.002	2.22 (1.35-3.64)	1.16 (0.56-2.40)	15.92 (10.33-24.54)	0.89 (0.50-1.59)	<0.001	17.94 (9.00-35.78)	18.98 (7.72-46.66)	8.90 (6.76-11.72)	0.79 (0.55-1.13)	<0.001	11.25 (7.22-17.55)	8.43 (4.65-15.29)

*Adjusted for age in days at 1st, 2nd, 3rd vaccination and age at 11-month blood sampling

**Adjusted for age in days at 1st, 2nd, 3rd and 4th vaccination