

**Supplementary Table 4: Trial 2 – ELISA GMCs, GMRs (95% CIs) and median at baseline, 1 month after first, second and third vaccination and at 6 months after third vaccination**

Vaccine Group	ID			IN			IM	
	0-0059/0-1 N=4	0-059/1 N=6	0-59/10 N=5	0-29/5 N=4	1-2/20 N=6	4-8/80 N=6	0-29/5 N=6	Placebo N=14
Baseline								
GMC (95% CI)	7.71 (0.55-107)	1.8 (1.66-1.95)	5.14 (2.18-12)	3.65 (0.61-22)	14 (0.97-205)	2.11 (1.1-4.03)	8.27 (1.34-51)	3.29 (1.93-5.6)
Median	13	1.78	5.8	2.63	6.35	1.68	5.65	1.86
n	4	6	5	4	6	6	6	14
1 month after first vac.								
GMC (95% CI)	9.4 (0.48-184)	2.11 (1.43-3.11)	12 (1.58-96)	4.08 (0.76-22)	13 (0.95-187)	2.09 (1.03-4.23)	13 (1.69-102)	3.58 (2.1-6.08)
Median	23	1.86	9.5	3.23	5.35	1.55	20	3.01
n	4	6	5	4	6	6	6	14
1 month after first vac./Baseline								
GMR (95% CI)	1.22 (0.69-2.15)	1.17 (0.79-1.73)	1.54 (0.61-3.9)	1.12 (0.86-1.45)	0.95 (0.76-1.17)	0.99 (0.9-1.09)	1.59 (0.84-3)	1.09 (0.76-1.54)
Median	1.03	1.1	1.24	1.11	0.95	1	1.38	1.05
n	4	6	4	4	6	6	6	14
1 month after second vac.								
GMC (95% CI)	9.09 (0.49-167)	2.32 (1.2-4.5)	12 (1.45-107)	3.78 (0.61-23)	15 (1.04-219)	1.72 (1.59-1.86)	17 (2.47-120)	3.28 (1.98-5.42)
Median	23	2.03	7.5	2.7	7.55	1.75	14	1.91
n	4	5	5	4	6	5	6	14
1 month after second vac./Baseline								
GMR (95% CI)	1.18 (0.72-1.93)	1.32 (0.66-2.62)	1.49 (0.6-3.7)	1.03 (0.9-1.19)	1.07 (0.96-1.19)	1.05 (0.98-1.13)	2.09 (1.45-3)	1 (0.89-1.11)
Median	1.02	1.09	1.15	1.07	1.05	1.04	2.18	1.03
n	4	5	4	4	6	5	6	14
1 month after third vac.								
GMC (95% CI)	8.63 (0.43-173)	1.75 (1.62-1.89)	14 (2.43-85)	3.85 (0.79-19)	19 (1.31-270)	2.21 (1.23-3.97)	20 (2.29-179)	3.49 (1.98-6.14)
Median	20	1.68	9.9	3.11	23	1.75	13	2.03
n	4	6	5	4	6	6	6	13
1 month after third vac./Baseline								
GMR (95% CI)	1.12 (0.59-2.12)	0.97 (0.93-1.01)	1.87 (0.82-4.25)	1.05 (0.73-1.51)	1.34 (0.7-2.56)	1.05 (0.97-1.14)	2.45 (1.41-4.25)	1.11 (0.93-1.32)
Median	0.92	0.99	1.93	1.07	0.99	1.04	3.14	1.07
n	4	6	4	4	6	6	6	13
6 Months after third vac.								
GMC (95% CI)	6.23 (0.55-70)	1.7 (1.7-1.7)	6.69 (0.91-49)	3.2 (0.78-13)	16 (1.05-254)	2.58 (1.36-4.9)	15 (1.56-148)	2.59 (1.62-4.13)
Median	8.95	1.7	6.2	2.65	10	1.87	5.8	1.77
n	4	6	5	4	6	6	6	12
6 Months after third vac./Baseline								
GMR (95% CI)	0.81 (0.35-1.85)	0.95 (0.87-1.02)	0.83 (0.27-2.56)	0.88 (0.56-1.36)	1.16 (0.85-1.58)	1.22 (0.91-1.64)	1.84 (0.93-3.63)	0.77 (0.55-1.08)
Median	0.91	0.96	0.97	0.98	1.04	1.11	1.79	0.97
n	4	6	4	4	6	6	6	12

CI =confidence interval. Vaccine groups are quantified as per  $\mu\text{g}$  of OAg/ $\mu\text{g}$  of protein. ID= intradermal. IN= intranasal. IM=intramuscular. GMR = geometric mean ratio. GMC = geometric mean concentration. vac.= vaccination.