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Supplementary appendix

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 ${\bf Appendix~1.~Specific~antibody~responses~to~RBD,~neutralizing~antibodies~to~live~SARS-CoV-2~and~pseudovirus~at~baseline}$

	Vaccine at 1×10 ¹¹ vp	Vaccine at 5×10 ¹⁰ vp	Placebo
	(n=253)	(n=129)	(n=126)
Baseline			
ELISA antibodies to RBD			
≥detection limit (1:40).	11 (4%)	6 (5%)	2 (2%)
GMT	21.5 (20.6-22.5)	21.9 (20.4-23.6)	20.7
			(19.7-21.8)
Neutralizing antibodies to l	ive SARS-CoV-2		
\geq detection limit (1:8).	0	0	1 (1%)
GMT	4.0 (-)	4.0 (-)	4.1 (3.9-4.3)
Neutralization antibodies to	o pseudovirus		
≥detection limit (1:10).	9 (4%)	8 (6%)	1 (1%)
GMT	5.2 (5.1-5.3)	5.5 (5.1-6.0)	5.1 (4.9-5.4)

Data are mean (95% CI) or n (%). GMT = geometric mean antibody titre. RBD = receptor binding domain. vp=viral particles

Appendix 2. Specific antibody responses to RBD, neutralizing antibodies to live SARS-CoV-2 and pseudovirus post-vaccination according to pre-existing Ad5.

	Vaccine at 1×10 ¹¹ vp	Vaccine at 5×10 ¹⁰ vp	Placebo
	(n=253)	(n=129)	(n=126)
At day 14			
ELISA antibodies to RBD			
Pre-existing Ad5≤200	n=127	n=54	n=61
GMT	194-1	173.0	21.0
	(157·0-240·0)	$(122 \cdot 5 - 244 \cdot 2)$	(19·1-23·0)
Seroconversion	96, 76%	40, 76%	0
Pre-existing Ad5>200	n=126	n=75	n=65
GMT	45.7	51.6	20.3
	(39.0-53.7)	(37.5-70.9)	(19.7-21.0)
Seroconversion	38, 30%	25, 33%	0
At day 28			
ELISA antibodies to RBD			
Pre-existing Ad5≤200	n=127	n=54	n=61
GMT	995.2	826.7	21.2
	(853-8-1160-1)	(638-3-1070-7)	$(19 \cdot 4 - 23 \cdot 2)$
Seroconversion	125, 98%	54, 100%	0
Pre-existing Ad5>200	n=126	n=75	n=65
GMT	431.6	437.5	20.3
	$(356 \cdot 5 - 522 \cdot 5)$	$(331 \cdot 3 - 577 \cdot 7)$	(19.7-21.0)
Seroconversion	119, 94%	71, 95%	0
Neutralizing antibodies to li	ve SARS-CoV-2		
Pre-existing Ad5≤200	n=127	n=54	n=61
GMT	31.1	27.0	4.1
	(25.5-37.9)	(18.9-38.5)	(3.9-4.4)
Seroconversion	94, 74%	34, 63%	0
Pre-existing Ad5>200	n=126	n=75	n=65
GMT	12.2	13.8	4.1
	$(10 \cdot 1 - 14 \cdot 8)$	$(10 \cdot 1 - 19 \cdot 0)$	(3.9-4.3)
Seroconversion	54, 43%	27, 36%	1, 2%
Neutralization antibodies to	pseudovirus		
Pre-existing Ad5≤200	n=127	n=54	n=61
GMT	85.7	70.4	5.9
	(70.0-104.9)	(55·2-90·0)	(5.0-7.0)
Seroconversion	117, 92%	49, 91%	1, 2%
Pre-existing Ad5>200	n=126	n=75	n=65
GMT	43.8	46.5	5.2
01/11	(36.0-53.4)	(34.7-62.4)	(5.0-5.4)
Caragonyaraian			
Seroconversion	97, 77%	58, 77%	0

Data are mean (95% CI) or n (%). GMT = geometric mean antibody titre. RBD = receptor binding domain. Seroconversion was defined as at least a four-fold increase in post-vaccination titre from baseline. All the comparisons across the three treatment groups in terms of the above measurements show significant difference, with p values less than 0.0001, respectively. Multiple comparisons showed no significant difference between the dose group of 1×10^{11} vp and 5×10^{10} vp. vp=viral particles

Appendix 3. Logistic regression analysis of seroconversion rate of S-protein by ELISA-RBD at day 28 post-vaccination with the baseline characters, vaccine dose and pre-existing Ad5 antibodies.

			()R
Model parameter	Estimates	P value	Point estimates	95%CI by Wald
Intercept	8.49	<0.0001		
Dose group of 1×10 ¹¹ vp*	-0.13	0.83	0.88	0.25-3.04
Age	-0.08	0.0018	0.92	0.87-0.97
Sex(male)	-0.26	0.66	0.8	0.24-2.46
Pre-existing Ad5 antibodies (>200)	-1.53	0.052	0.2	0.05-1.02

^{*} The independent variables are the dose group (the dose group of 5×10^{10} vp as the reference), age (continuous variable), sex (female as reference), and the level of Ad5 antibodies pre-vaccination (\leq 200 as reference) included in a multivariable analysis. vp=viral particles

Appendix 4. Logistic regression analysis of seroconversion rate of neutralizing antibodies to live SARS-CoV-2 at day 28 post-vaccination with the baseline characters, vaccine dose and pre-existing Ad5 antibodies.

			(OR
Model parameter	Estimates	P value	Point estimates	95%CI by Wald
Intercept	2.51	<0.0001		
Dose group of 1×10 ¹¹ vp*	0.43	0.068	1.54	0.97-2.44
Placebo group*	-5.14	< 0.0001	0.006	0.001-0.04
Age	-0.04	< 0.0001	1.0	0.94-0.98
Sex(male)	-0.39	0.085	0.7	0.44-1.06
Pre-existing Ad5 antibodies (>200)	-1.24	< 0.0001	0.3	0.19-0.45

^{*} The independent variables are the dose group (the dose group of 5×10^{10} vp as the reference), age (continuous variable), sex (female as reference), and the level of Ad5 antibodies pre-vaccination (\leq 200 as reference) included in a multivariable analysis. vp=viral particles

Appendix 5. Logistic regression analysis of seroconversion rate of neutralizing antibodies to pseudovirus at day 28 post-vaccination with the baseline characters, vaccine dose and pre-existing Ad5 antibodies.

				OR
Model parameter	Estimates	P value	Point estimates	95%CI by Wald
Intercept	3.17	<0.0001		
Dose group of 1×10^{11} vp *	0.07	0.83	1.07	0.59-1.92
Placebo group*	-6.84	< 0.0001	0.001	0.00-0.01
Age	-0.02	0.046	0.98	0.96-1.00
Sex(male)	0.23	0.43	1.25	0.71-2.20
Pre-existing Ad5 antibodies (>200)	-1.16	0.0003	0.32	0.17-0.59

^{*} The independent variables are the dose group (the dose group of 5×10^{10} vp as the reference), age (continuous variable), sex (female as reference), and the level of Ad5 antibodies pre-vaccination (\leq 200 as reference) included in a multivariable analysis. vp=viral particles

Appendix 6. Specific antibody responses to RBD, neutralizing antibodies to live SARS-CoV-2 and pseudovirus post-vaccination stratified according to age.

	Vaccine at 1×10 ¹¹ vp	Vaccine at 5×10 ¹⁰ vp	Placebo	p value
	(n=253)	(n=129)	(n=126)	
At day 14				
ELISA antibodies to	RBD			
18-44 years old	n=152	n=80	n=77	
GMT	126.9	106.0	20.3	< 0.0001
	$(102 \cdot 9 - 156 \cdot 5)$	$(77 \cdot 2 - 145 \cdot 5)$	(19.7-20.8)	
Seroconversion	97, 64%	48, 61%	0	< 0.0001
45-54 years old	n=67	n=32	n=35	
GMT	67.2	64.8	20.0	< 0.0001
	(50.9-88.9)	(37.5-111.9)		
Seroconversion	27, 40%	12, 38%	0	< 0.0001
≥55 years old	n=34	n=17	n=14	
GMT	49.4	51.4	24.5	0.11
	(33.9-72.0)	(25.5-103.6)	(15.8-38.2)	
Seroconversion	10, 29%	5, 29%	0	0.045
At day 28				
ELISA antibodies to l	RBD			
18-44 years old	n=152	n=80	n=77	
GMT	791.8	700.0	20.3	< 0.0001
	$(678 \cdot 1 - 924 \cdot 6)$	(553.0-886.2)	$(19 \cdot 7 - 20 \cdot 8)$	
Seroconversion	149, 98%	79, 99%	0	< 0.0001
45-54 years old	n=67	n=32	n=35	
GMT	488.4	424.2	20.0*	< 0.0001
	$(365 \cdot 3 - 652 \cdot 9)$	$(272 \cdot 6 - 660 \cdot 2)$		
Seroconversion	63, 94%	31, 97%	0	< 0.0001
≥55 years old	n=34	n=17	n=14	
GMT	509.0	383.1	25.7	< 0.0001
	(349.0-742.2)	(203.9-719.6)	$(17 \cdot 0 - 38 \cdot 7)$	
Seroconversion	32, 94%	15, 88%	0	< 0.0001
Neutralizing antibodi	ies to live SARS-CoV-2			
18-44 years old	n=152	n=80	n=77	
GMT	24.6	21.2	4.1	< 0.0001
	$(20 \cdot 2 - 29 \cdot 9)$	(15.5-29.0)	(3.9-4.3)	
Seroconversion	104, 68%	42, 53%	1, 1%	< 0.0001
45-54 years old	n=67	n=32	n=35	
GMT	16.6	17.8	4.0	< 0.0001
	(12.7-21.8)	(10.5-30.3)		
Seroconversion	35, 52%	14, 44%	0	< 0.0001
≥55 years old	n=34	n=17	n=14	

	Vaccine at 1×10 ¹¹ vp	Vaccine at 5×10 ¹⁰ vp	Placebo	p value
	(n=253)	(n=129)	(n=126)	
GMT	9.6	9.5	4.6	0.028
	(6.9-13.5)	(6.0-15.0)	$(3 \cdot 4 - 6 \cdot 4)$	
Seroconversion	9, 26%	5, 29%	0	0.055
Neutralization antibo	dies to pseudovirus			
18-44 years old	n=152	n=80	n=77	
GMT	72.4	58.2	5.5	< 0.0001
	$(60 \cdot 0 - 87 \cdot 3)$	$(45 \cdot 8 - 74 \cdot 0)$	(4.9-6.1)	
Seroconversion	134, 88%	68, 85%	1, 1%	< 0.0001
45-54 years old	n=67	n=32	n=35	
GMT	48.6	56.1	5.1	< 0.0001
	$(36 \cdot 6 - 64 \cdot 4)$	(34.7-90.5)	$(4 \cdot 9 - 5 \cdot 4)$	
Seroconversion	52, 78%	26, 81%	0	< 0.0001
≥55 years old	n=34	n=17	n=14	
GMT	46.6	42.4	6.8	< 0.0001
	(30-6-71-0)	(23.9-75.3)	(4.0-11.7)	
Seroconversion	28, 82%	13, 76%	0	< 0.0001

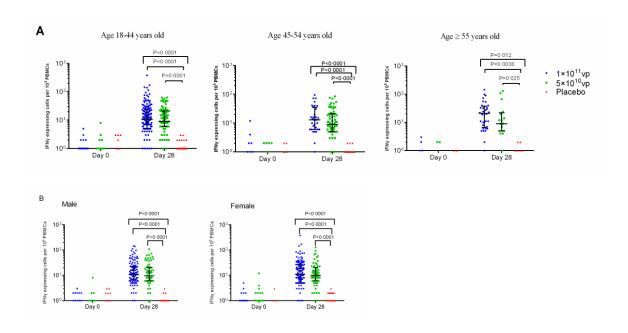
Data are mean (95% CI) or n (%). GMT = geometric mean antibody titre. RBD = receptor binding domain. Seroconversion was defined as at least a four-fold increase in post-vaccination titre from baseline. P value was generated by comparisons across the three treatment groups. Pairwise comparisons showed no significant difference between the dose group of 1×10^{11} vp and 5×10^{10} vp. vp=viral particles

Appendix 7. Specific antibody responses to RBD, neutralizing antibodies to live SARS-CoV-2 and pseudovirus post-vaccination stratified according to sex.

	Vaccine at 1×10 ¹¹ vp	Vaccine at 5×10 ¹⁰ vp	Placebo (n=126)	
	(n=253)	(n=129)		
At day 14				
ELISA antibodies to RBD				
Male	n=126	n=64	n=64	
GMT*	104.2	65.8	20.0	
	(83.0-130.8)	(48.5-89.2)	-	
Seroconversion	69, 55%	31, 49%	0	
Female	n=127	n=65	n=62	
GMT	85.7	109.3	21.3	
	(68·3-107·4)	(73·1-163·4)	(19-3-23-5)	
Seroconversion	65, 51%	34, 52%	0	
At day 28				
ELISA antibodies to RBD				
Male	n=126	n=64	n=64	
GMT	676.5	496.7	20.0	
	(563.0-812.7)	(390·1-632·4)	-	
Seroconversion	120, 95%	63, 98%	0	
Female	n=127	n=65	n=62	
GMT	637.3	655.0	21.5	
	(525.8-772.5)	(475.5-902.3)	(19-6-23-6)	
Seroconversion	124, 98%	62, 95%	0	
Neutralizing antibodies to	live SARS-CoV-2			
Male	n=126	n=64	n=64	
GMT‡	20.7	13.1	4.0	
	$(16 \cdot 6 - 25 \cdot 7)$	(9.8-17.5)	-	
Seroconversion§	75, 60%	24, 38%	0	
Female	n=127	n=65	n=62	
GMT	18.5	25.4	4.2	
	(15.0-22.8)	(17.5-36.9)	(3.9-4.6)	
Seroconversion	73, 57%	37, 57%	1, 2%	
Neutralization antibodies t	o pseudovirus			
Male	n=126	n=64	n=64	
GMT	71.3	52.5	5.5	
	(58.0-87.7)	(39·2-70·3)	(4.9-6.2)	
Seroconversion	110, 87%	53, 83%	1, 2%	
Female	n=127	n=65	n=62	
GMT	52.9	58.2	5.5	
	(43.0-65.1)	(44.0-77.1)	(4.9-6.2)	
Seroconversion	104, 82%	54, 83%	0	

Data are mean (95% CI) or n (%). GMT = geometric mean antibody titer. RBD = receptor binding domain. Seroconversion was defined as at least a four-fold increase in post-vaccination titre from baseline. All the comparisons across the three treatment groups in terms of the above measurements show significant difference, with p values less than 0·0001, respectively. * dose group of 1×10^{11} vp vs. dose group of 5×10^{10} vp, P=0·0068. ‡ dose group of 1×10^{11} vp vs. dose group of 5×10^{10} vp, P=0·0047. \$ dose group of 1×10^{11} vp vs. dose group of 1×10^{11} vp vs.

Appendix 8. Stratified analyses of the T cell responses based on the age and sex measured by IFN γ -ELISpot.



- (A) The number of specific T cells with secretion of IFN γ at days 0, and 28 in all participants, and stratified by age. vp=viral particles
- (B) The number of specific T cells with secretion of IFN γ at days 0, and 28 in all participants, and stratified by sex.

Appendix 9. Proportion of participants with either seroconversion of neutralizing antibodies to live SARS-CoV-2 or a positive T cell response measured by INF- γ ELISpot at day 28 post-vaccination.

		Vaccine at 1×10 ¹¹ vp (n=253)	Vaccine at 5×10 ¹⁰ vp (n=129)	Placebo (n=126)	Total (n=508)
Day 28 post-vaccination					
Seroconversion	n (%)	241 (95%)	118 (91%)	1 (1%)	360 (71%)
Seroconversion rate CI	95% CI	92%~97%	85%~95%	0.1%~4%	67%~75%

Data are n (%) or 95% CI. A positive antibody response (seroconversion) was defined as at least a 4-fold increase in post-vaccination titer from baseline. The ELISpot T cell responses were considered positive if at least 4-fold increase in the numbers of IFN- γ -secreting T cells was found post-vaccination compared to the baseline. vp=viral particles

Appendix 10. Logistic regression analysis of the incidence of fever with the baseline characters, vaccine dose and pre-existing Ad5 antibodies.

			OR		
Model parameters	Estimates	P value	Point estimates	95%CI by Wald	
Intercept	1.47	0.0021			
Dose group of 1×10 ¹¹ vp	0.97	0.0012	2.64	1.47-4.76	
Placebo group	-0.80	0.052	0.45	0.20-1.01	
Age	-0.06	< 0.0001	0.94	0.92-0.96	
Sex	-0.53	0.030	0.59	0.36-0.95	
Pre-existing Ad5 antibodies (>1:200)	-1.55	< 0.0001	0.21	0.13-0.35	

The occurrence of adverse reactions (fever) is the dependent variable. The independent variables are the dose group (the dose group of 5×10^{10} vp as the reference), age (continuous variable), sex (female as reference), and the level of Ad5 antibodies pre-vaccination (\leq 200 as reference) included in a multivariable analysis. vp=viral particles

Appendix 11. List of severe (grade 3) adverse reactions reported within 28 days of follow-up.

ID of participants	Dose group	Symptom	Grade	Start time	Resolve time	Treatment
007*	Placebo	Muscle strain	3	Day 16 after vaccination	72h	Outpatient treatment
009	$1\times10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	24h	No treatment
013	$1\times10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	24h	Self-purchased medicine
019	$1\times10^{11} \text{ vp}$	Swelling	3	Day 0 after vaccination	48h	No treatment
051	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	24h	No treatment
054	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	48h	Self-purchased medicine
059	$1\times10^{11} \text{ vp}$	Fatigue	3	Day 1 after vaccination	<24h	No treatment
062	$1\times10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	24h	No treatment
067	$1\times10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	24h	No treatment
075	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	<24h	Self-purchased medicine
104	$5 \times 10^{10} \text{ vp}$	Fever	3	Day 1 after vaccination	<24h	No treatment
126	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	<24h	No treatment
143	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	<24h	Self-purchased medicine
162	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	48h	Self-purchased medicine
164	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	24h	No treatment
183*	Placebo	Buccal ulceration	3	Day 21 after vaccination	144h	Outpatient treatment
		Oropharyngeal pain	3	Day 17 after vaccination	168h	Self-purchased medicine
186	$1 \times 10^{11} \text{ vp}$	Induration	3	Day 1 after vaccination	96h	No treatment
197	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	96h	Self-purchased medicine
202	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	48h	Self-purchased medicine
211	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	24h	Self-purchased medicine
216	$1 \times 10^{11} \text{ vp}$	Induration	3	Day 1 after vaccination	72h	No treatment

217	1×10 ¹¹ vp	Fever	3	Day 1 after vaccination	48h	Self-purchased medicine
		Headache	3	Day 1 after vaccination	96h	No treatment
234	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	72h	No treatment
240	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	48h	No treatment
272	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 1 after vaccination	48h	Self-purchased medicine
		Muscle pain	3	Day 1 after vaccination	24h	No treatment
		Joint pain	3	Day 1 after vaccination	48h	No treatment
		Dyspnea	3	Day 1 after vaccination	24h	No treatment
		Insomnia	3	Day 1 after vaccination	24h	No treatment
		Headache	3	Day 1 after vaccination	24h	No treatment
436	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	48h	Self-purchased medicine
473	$1 \times 10^{11} \text{ vp}$	Fever	3	Day 0 after vaccination	48h	No treatment

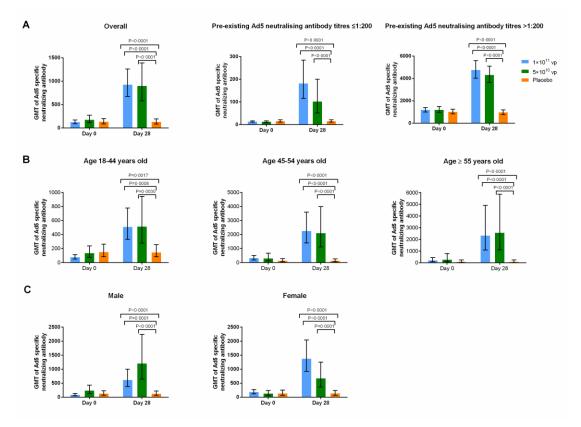
^{*}The adverse reactions of these participants were not considered to be related to the vaccine. vp=viral particles

Appendix 12. Unsolicited adverse reactions within 14 days after vaccination.

	Vaccine at 1×10 ¹¹ vp	Vaccine at 5×10 ¹⁰ vp	Placebo (n=126)	P value*
	(n=253)	(n=129)		
Unsolicited injection-site ac	lverse reactions within 1	4 days		
Hemorrhage	1 (<1%)	1 (1%)	0	1.0
Muscle swelling	3 (1%)	2 (2%)	1 (1%)	1.0
Unsolicited systemic advers	se reactions within 14 da	ys		
Backache	1 (<1%)	0	1 (1%)	0.75
Coryza	0	0	1 (1%)	0.25
Earache	1 (<1%)	0	0	1.0
Noninfective gingivitis	1 (<1%)	0	0	1.0
Abdominal distress	1 (<1%)	0	0	1.0
Abdominal distension	1 (<1%)	0	0	1.0
Hypoaesthesia	0	1 (1%)	0	0.50
Joint swelling	0	1 (1%)	0	0.50
Muscular weakness	1 (<1%)	0	1 (1%)	0.75
Expectoration	1 (<1%)	0	0	1.0
Thirst	0	0	1 (1%)	0.25
Hypoesthesia oral	2 (1%)	0	0	0.75
Buccal ulceration	1 (<1%)	0	0	1.0
Oral herpes	1 (<1%)	0	0	1.0
Lymph node pain	1 (<1%)	0	0	1.0
Sniffles	1 (<1%)	0	0	1.0
Insomnia	1 (<1%)	0	0	1.0
Grade 3 insomnia	1 (<1%)	0	0	1.0
Somnolence	1 (<1%)	1 (1%)	1 (1%)	1.0
Dizziness	3 (1%)	2 (2%)	1 (1%)	1.0
Palpitation	1 (<1%)	0	0	1.0
Musculoskeletal chest pain	1 (<1%)	0	0	1.0
Chest pain	0	0	1 (1%)	0.25
Axillary pain	1 (<1%)	0	0	1.0
Faeces hard	0	0	1 (1%)	0.25
Aching in limb	1 (<1%)	0	0	1.0

Data are n (%). Any refers to all the participants with any grade adverse reactions or events. Adverse reactions and events were graded according to the scale issued by the China State Food and Drug Administration. Grade 3=severe (ie, prevented activity). *Calculated with χ^2 test or Fisher's exact test. vp=viral particles

Appendix 13. Geometric mean titres of Ad5 neutralising antibodies at days 0 and 28 post-vaccination.



- (A) GMT of Ad5 neutralising antibodies at days 0 and 28 post-vaccination in all participants, and stratified by pre-existing Ad5 neutralising antibody titres. vp=viral particles
- (B) GMT of Ad5 neutralising antibodies at days 0 and 28 post-vaccination stratified by age.
- (C) GMT of Ad5 neutralising antibodies at days 0 and 28 post-vaccination stratified by sex. GMT= geometric mean titre. Ad5=adenovirus type-5.