	L	ow-dose group		High-dose group			
	One-dose regimen	Two-dose regimen	p value	One-dose regimen	Two-dose regimen	p value	
Ν	129	118	/	253	100	/	
Age, years			1	1			
18-55	116 (89.9%)	20 (16.9%)	<0.001	223 (88.1%)	/	<0.001 <0.001	
≥56	13 (10.1%)	98 (83.1%)	<0.001	30 (11.9%)	100 (100%)		
mean(SD)	39.71 (12.13)	60.51 (8.58)	<0.001	39.98 (12.78)	63.76 (5.10)		
Sex							
male	64 (49.6%)	64 (54.2%)	0.4675	126 (49.8%)	66 (66%)	0.0059	
female	65 (50.4%)	54 (45.8%)	0.4075	127 (50.2%)	34 (34%)		
BMI	24.23 (2.67)	25.08 (3.90)	0.0498	24.22 (2.77)	24.32 (2.99)	0.7776	
Pre-existing	adenovirus type	e-5 neutralizing	antibody				
≤1:200, titer	54 (41.9%)	46 (39.0%)	0.6454	127 (50.2%)	42 (42%)	0.1648	
>1:200, titer	75 (58.1%)	72 (61.0%)	0.0434	126 (49.8%)	58 (58%)		

Supplementary Table 1. Baseline characteristics in one-dose and two-dose trial of Ad5-nCoV.

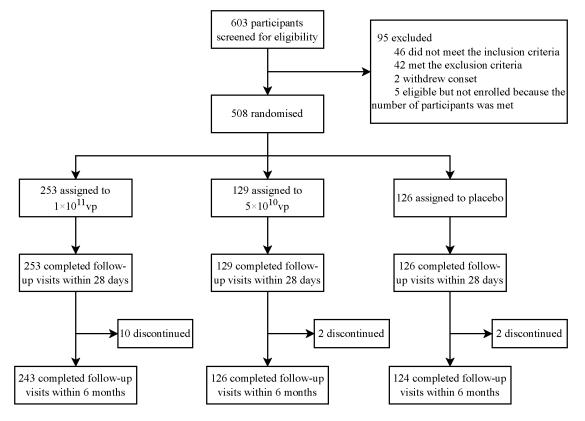
Data are mean (SD), number of participants (%) and p value.

SD=standard deviation. BMI=body-mass index. GMT=geometric mean titer.

<u> </u>			1Cov vaccina			т ·			
One-dose	High-dose group				Low-dose group				
regimen		253	N=129						
	RBD-binding antibody		pseudovirus neutralizing antibody		RBD-binding antibody		pseudovirus neutralizing antibody		
Independent variable	correlation	p value	correlation	p value	correlation	p value	correlation	p value	
BMI	0.042	0.252	0.084	0.09	0.018	0.418	0.047	0.297	
Sex	-0.028	0.329	-0.126	0.022	0.121	0.086	0.045	0.306	
Age	-0.278	< 0.001	-0.154	0.007	-0.316	< 0.001	-0.084	0.171	
Pre-existing adenovirus type-5 neutralizing antibody	-0.392	<0.001	-0.284	<0.001	-0.275	0.0008	-0.179	0.021	
Two-dose		se group	low-dose group						
regimen	N=100				N=120				
	RBD-binding antibody		pseudovirus neutralizing antibody		RBD-binding antibody		pseudovirus neutralizing antibody		
Independent variable	correlation	p value	correlation	p value	correlation	p value	correlation	p value	
BMI	0.058	0.282	-0.041	0.344	-0.041	0.327	-0.164	0.037	
Sex	0.159	0.057	-0.100	0.161	0.258	0.002	0.143	0.059	
Age	-0.112	0.134	-0.03	0.384	-0.359	< 0.001	-0.182	0.023	
Pre-existing adenovirus type-5 neutralizing antibody	-0.224	0.013	-0.354	<0.001	-0.295	<0.001	-0.305	<0.001	

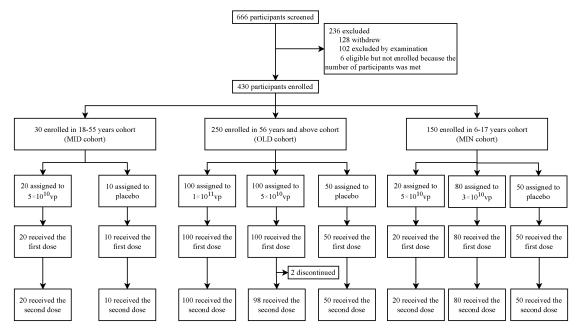
Supplementary Table 2. Correlation results by multiple linear regression using data at day 28 after the first Ad5-nCoV vaccination.

Note: If the p value is lesse than 0.05, the independent variable is considered to be related to the dependent variable.



Supplementary Figure 1A. Trial profiles from one-dose regimen of Ad5-nCoV.

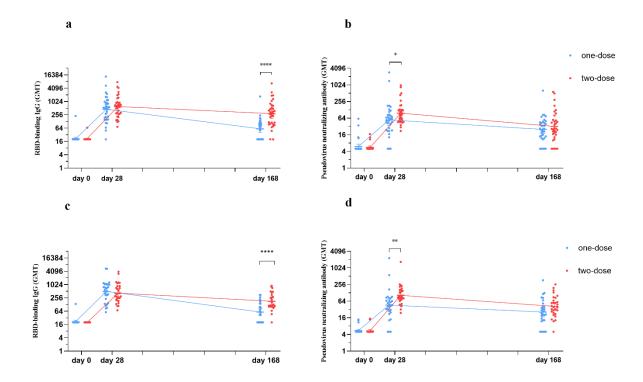
vp=viral particles.



Supplementary Figure 1B. Trial profiles from two-dose regimen of Ad5-nCoV.

vp=viral particles.

Supplementary Figure 2. Compared antibody titers through 6 months between one-dose and two-dose regimens of Ad5-nCoV in matched participants after the last vaccination.



Note: Decay trends and GMTs of RBD-binding antibody in the low-dose groups (a). Decay trends and GMTs of pseudovirus neutralizing antibody in the low-dose groups (b). Decay trends and GMTs of RBD-binding antibody in the high-dose groups (c). Decay trends and GMTs of pseudovirus neutralizing antibody in the high-dose groups (d). Titers at day 0 showed antibody titers before vaccination. Blue line charts and dots presented antibodies in one-dose regimen of Ad5-nCoV at day 28 and month 6 after vaccination. Red line charts and dots at day 28 and month 6 presented antibodies after the second vaccination in two-dose regimen of Ad5-nCoV. Error bars indicated 95%CIs. n, the number of participants after propensity score matching. * represents p value less than 0.05, ** represents p value less than 0.01 and **** represents p value less than 0.0001.