

Table S1 Statistical analysis of baseline characteristics of the vaccinated infants in terms of polio immunization schedule in per protocol set

Parameter	Test method	P value
Age (days), mean ± SD		
Sex, n (%)		
Male	Pearson CHI-SQUARE	1.00
Female	Pearson CHI-SQUARE	1.00
Type 1 polio strain		
Seropositive, n (% , 95% CI)	Pearson CHI-SQUARE	0.14
GMT, geometric mean (95% CI)	ANOVA	0.23
Type 2 polio strain		
Seropositive, n (% , 95% CI)	Pearson CHI-SQUARE	1.00
GMT, geometric mean (95% CI)	ANOVA	0.76
Type 3 polio strain		
Seropositive, n (% , 95% CI)	Pearson CHI-SQUARE	1.00
GMT, geometric mean (95% CI)	ANOVA	0.38

SD, standard deviation; CI, confidence interval; GMT, geometric mean titer; ANOVA, analysis of variance.

Table S2 Statistical analysis of seroconversion rate and geometric mean titer against poliovirus (types 1, 2, and 3) 28 days after three doses of different immunization schedules in per protocol set analysis

Immunogenicity indicator	Test method	P value
Type 1 polio strain		
Seropositive, n (% , 95% CI)	Fisher exact test	0.72
GMT, geometric mean (95% CI)	ANOVA	<0.001
Type 2 polio strain		
Seropositive, n (% , 95% CI)	Pearson CHI-SQUARE	<0.001
GMT, geometric mean (95% CI)	ANOVA	<0.001
Type 3 polio strain		
Seropositive, n (% , 95% CI)	Fisher exact test	<0.05
GMT, geometric mean (95% CI)	ANOVA	<0.001

CI, confidence interval; GMT, geometric mean titer; ANOVA, analysis of variance.

Table S3 Multiple comparisons of seroconversion rate against poliovirus (types 1, 2, and 3) 28 days after three doses of different immunization schedules

Immunogenicity indicator	Group	vs.	Group	Test method	P value
Type2 polio strain	cIPV-bOPV-bOPV	vs.	sIPV-sIPV-tOPV	Pearson CHI-SQUARE	<0.001
			sIPV-sIPV-bOPV	Pearson CHI-SQUARE	<0.001
			cIPV-cIPV-tOPV	Pearson CHI-SQUARE	<0.001
			cIPV-cIPV-bOPV	Pearson CHI-SQUARE	<0.001
			sIPV-bOPV- bOPV	Pearson CHI-SQUARE	0.13
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	<0.001
	sIPV-sIPV-tOPV	vs.	sIPV-sIPV-bOPV	Pearson CHI-SQUARE	<0.001
			cIPV-cIPV-tOPV	Fisher exact test	1.00
			cIPV-cIPV-bOPV	Pearson CHI-SQUARE	<0.001
			sIPV-bOPV- bOPV	Pearson CHI-SQUARE	<0.001
			tOPV-tOPV-tOPV	Fisher exact test	0.75
	sIPV-sIPV-bOPV	vs.	cIPV-cIPV-tOPV	Pearson CHI-SQUARE	<0.001
			cIPV-cIPV-bOPV	Pearson CHI-SQUARE	0.79
			sIPV-bOPV- bOPV	Pearson CHI-SQUARE	<0.001
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	<0.001
	cIPV-cIPV-tOPV	vs.	cIPV-cIPV-bOPV	Pearson CHI-SQUARE	<0.001
			sIPV-bOPV- bOPV	Pearson CHI-SQUARE	<0.001
			tOPV-tOPV-tOPV	Fisher exact test	0.75
	cIPV-cIPV-bOPV	vs.	sIPV-bOPV- bOPV	Pearson CHI-SQUARE	<0.001
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	<0.001
sIPV-bOPV- bOPV	vs.	tOPV-tOPV-tOPV	Pearson CHI-SQUARE	<0.001	
Type3 polio strain	cIPV-bOPV-bOPV	vs.	sIPV-sIPV-tOPV	Fisher exact test	0.21
			sIPV-sIPV-bOPV	Fisher exact test	1
			cIPV-cIPV-tOPV	Fisher exact test	0.62
			cIPV-cIPV-bOPV	Fisher exact test	0.62
			sIPV-bOPV- bOPV	Pearson CHI-SQUARE	1
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	<0.05
	sIPV-sIPV-tOPV	vs.	sIPV-sIPV-bOPV	Fisher exact test	0.20
			cIPV-cIPV-tOPV	Fisher exact test	0.45
			cIPV-cIPV-bOPV	Fisher exact test	0.69
			sIPV-bOPV- bOPV	Fisher exact test	0.21
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	0.49
	sIPV-sIPV-bOPV	vs.	cIPV-cIPV-tOPV	Fisher exact test	0.61
			cIPV-cIPV-bOPV	Fisher exact test	0.61
			sIPV-bOPV- bOPV	Fisher exact test	1
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	<0.05
	cIPV-cIPV-tOPV	vs.	cIPV-cIPV-bOPV	Fisher exact test	1
			sIPV-bOPV- bOPV	Fisher exact test	0.62
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	0.09
	cIPV-cIPV-bOPV	vs.	sIPV-bOPV- bOPV	Fisher exact test	0.62
			tOPV-tOPV-tOPV	Pearson CHI-SQUARE	0.09
sIPV-bOPV- bOPV	vs.	tOPV-tOPV-tOPV	Pearson CHI-SQUARE	<0.05	

tOPV, trivalent oral polio vaccine; cIPV, conventional inactivated poliovirus vaccine; bOPV, bivalent oral polio vaccine; sIPV, Sabin strain-based inactivated poliovirus vaccine.

Table S4 Multiple comparisons of antibody geometric mean titer against poliovirus (types 1, 2, and 3) 28 days after three doses of different immunization schedules

Immunogenicity indicator	Group	vs.	Group	Test method	P value
Type1 polio strain	cIPV-bOPV-bOPV	vs.	sIPV-sIPV-bOPV	T test	<0.001
			cIPV-cIPV-bOPV	T test	0.30
			sIPV-sIPV-tOPV	T test	<0.001
			cIPV-cIPV-tOPV	T test	<0.001
			sIPV-bOPV- bOPV	T test	<0.001
			tOPV-tOPV-tOPV	T test	<0.001
	sIPV-sIPV-bOPV	vs.	cIPV-cIPV-bOPV	T test	<0.001
			sIPV-sIPV-tOPV	T test	<0.001
			cIPV-cIPV-tOPV	T test	<0.001
			sIPV-bOPV- bOPV	T test	<0.01
			tOPV-tOPV-tOPV	T test	<0.001
			sIPV-sIPV-tOPV	T test	<0.001
	cIPV-cIPV-bOPV	vs.	sIPV-sIPV-tOPV	T test	<0.001
			cIPV-cIPV-tOPV	T test	<0.001
			sIPV-bOPV- bOPV	T test	<0.001
			tOPV-tOPV-tOPV	T test	<0.001
			sIPV-sIPV-tOPV	T test	<0.001
			sIPV-bOPV- bOPV	T test	0.08
	sIPV-sIPV-tOPV	vs.	cIPV-cIPV-tOPV	T test	<0.001
			sIPV-bOPV- bOPV	T test	0.59
			tOPV-tOPV-tOPV	T test	<0.001
			sIPV-bOPV- bOPV	T test	<0.001
			tOPV-tOPV-tOPV	T test	<0.001
			sIPV-bOPV- bOPV	T test	<0.01
cIPV-cIPV-tOPV	vs.	tOPV-tOPV-tOPV	T test	<0.01	
		sIPV-sIPV-bOPV	T test	<0.001	
		cIPV-cIPV-bOPV	T test	<0.001	
		sIPV-sIPV-tOPV	T test	<0.001	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
sIPV-bOPV- bOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-sIPV-bOPV	T test	<0.001	
		cIPV-cIPV-bOPV	T test	<0.001	
		sIPV-sIPV-tOPV	T test	<0.001	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
cIPV-bOPV-bOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-sIPV-bOPV	T test	<0.001	
		cIPV-cIPV-bOPV	T test	<0.001	
		sIPV-sIPV-tOPV	T test	<0.001	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
sIPV-sIPV-bOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	
		cIPV-cIPV-bOPV	T test	0.53	
		sIPV-sIPV-tOPV	T test	<0.001	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
cIPV-cIPV-bOPV	vs.	sIPV-sIPV-tOPV	T test	<0.001	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-sIPV-tOPV	T test	0.17	
		sIPV-bOPV- bOPV	T test	<0.001	
sIPV-sIPV-tOPV	vs.	cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
cIPV-cIPV-tOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
sIPV-bOPV- bOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-sIPV-bOPV	T test	<0.001	
		cIPV-cIPV-bOPV	T test	<0.001	
		sIPV-sIPV-tOPV	T test	<0.05	
		cIPV-cIPV-tOPV	T test	<0.05	
		sIPV-bOPV- bOPV	T test	0.95	
cIPV-bOPV-bOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-sIPV-bOPV	T test	<0.001	
		cIPV-cIPV-bOPV	T test	0.68	
		sIPV-sIPV-tOPV	T test	<0.001	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
sIPV-sIPV-bOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	
		cIPV-cIPV-bOPV	T test	<0.001	
		sIPV-sIPV-tOPV	T test	<0.001	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
cIPV-cIPV-bOPV	vs.	sIPV-sIPV-tOPV	T test	<0.01	
		cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-sIPV-tOPV	T test	0.82	
		sIPV-bOPV- bOPV	T test	<0.05	
sIPV-sIPV-tOPV	vs.	cIPV-cIPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.05	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.05	
cIPV-cIPV-tOPV	vs.	sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
		sIPV-bOPV- bOPV	T test	<0.001	
		tOPV-tOPV-tOPV	T test	<0.001	
sIPV-bOPV- bOPV	vs.	tOPV-tOPV-tOPV	T test	<0.001	

tOPV, trivalent oral polio vaccine; cIPV, conventional inactivated poliovirus vaccine; bOPV, bivalent oral polio vaccine; sIPV, Sabin strain-based inactivated poliovirus vaccine.

Table S5 Statistical analysis of incidence of adverse events in the infants after immunization with different polio vaccination schedules in safety set analysis

Adverse event	Test method	P value
Any adverse event	Pearson CHI-SQUARE	0.60
Serious adverse events	Pearson CHI-SQUARE	0.97
Unsolicited adverse events	Pearson CHI-SQUARE	<0.001
Solicited adverse events	Pearson CHI-SQUARE	<0.001
Fever	Pearson CHI-SQUARE	<0.001
Abnormal irritability	Pearson CHI-SQUARE	<0.001
Drowsiness	Pearson CHI-SQUARE	<0.001
Gastrointestinal symptoms	Pearson CHI-SQUARE	<0.05
Diarrhea	Pearson CHI-SQUARE	0.59
Allergy	Fisher exact test	0.09
Local reactions ^c	Pearson CHI-SQUARE	<0.001

^c, including pain, redness, swelling, and induration.