

Supplemental material

Supplemental Table 1. Infarct volume in diffusion weighted imaging sequences

Salvinorin A group (cm ³)	Control group (cm ³)
2.9678	7.447
4.0128	5.8058
4.2064	8.2654
4.5518	7.1258

Supplemental Table 2. Hemisphere volume in T2-weighted images

Salvinorin A group (cm ³)		Control group (cm ³)	
Lesion side	Contralateral side	Lesion side	Contralateral side
48.5791	48.4977	53.5058	52.9925
42.9933	42.9288	47.1198	46.5131
41.6669	41.5413	59.5905	58.7275
46.1881	45.8845	48.0033	47.1979

Supplemental Table 3. Apparent diffusion coefficient values in apparent diffusion coefficient sequences

Salvinorin A group		Control group	
Lesion side	Contralateral side	Lesion side	Contralateral side
456.8	642	308	725.4
392.8	692.8	355.8	612.4
626.4	764	324.4	653.4
490.6	634	261.6	595.2

Supplemental Table 4. Fractional anisotropy values in diffusion tensor imaging sequences

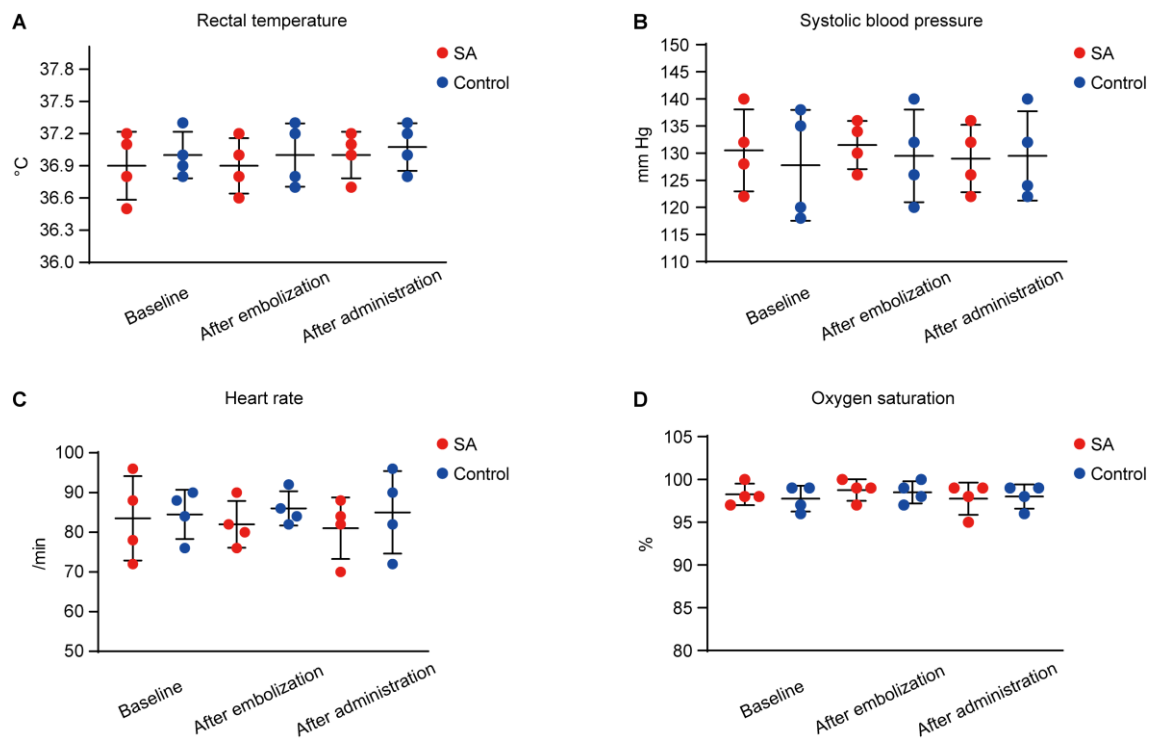
Salvinorin A group	Control group
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Lesion side	Contralateral side	Lesion side	Contralateral side
0.285	0.378	0.269	0.391
0.274	0.323	0.248	0.325
0.296	0.332	0.27	0.325
0.246	0.32	0.277	0.357

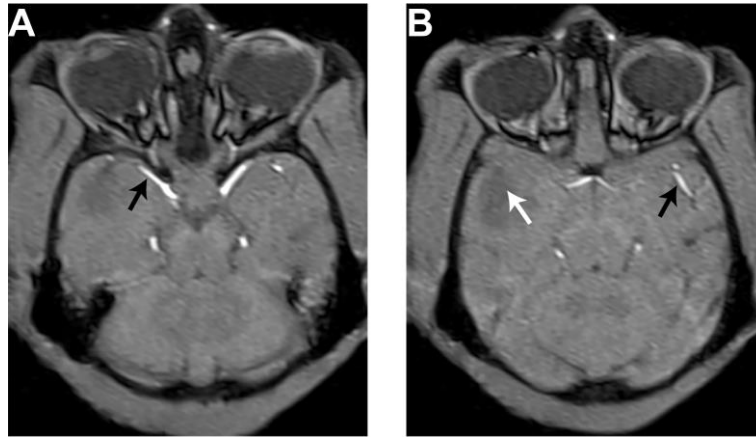
Supplemental Table 5. Comparison of the NHPSS scores between two groups during the follow-up period

Time points	NHPSS		<i>P</i> value
	SA group	Control group	
24 hours	13.5 ± 1.7	15 ± 1.4	0.228
48 hours	12.8 ± 1.5	14.5 ± 2.1	0.221
72 hours	9.0 ± 1.2	13.0 ± 2.9	0.045
7 days	3.8 ± 1.7	9.5 ± 2.4	0.008
14 days	1.8 ± 1.7	8.0 ± 2.2	0.004
28 days	1.3 ± 1.3	7.0 ± 1.8	0.002

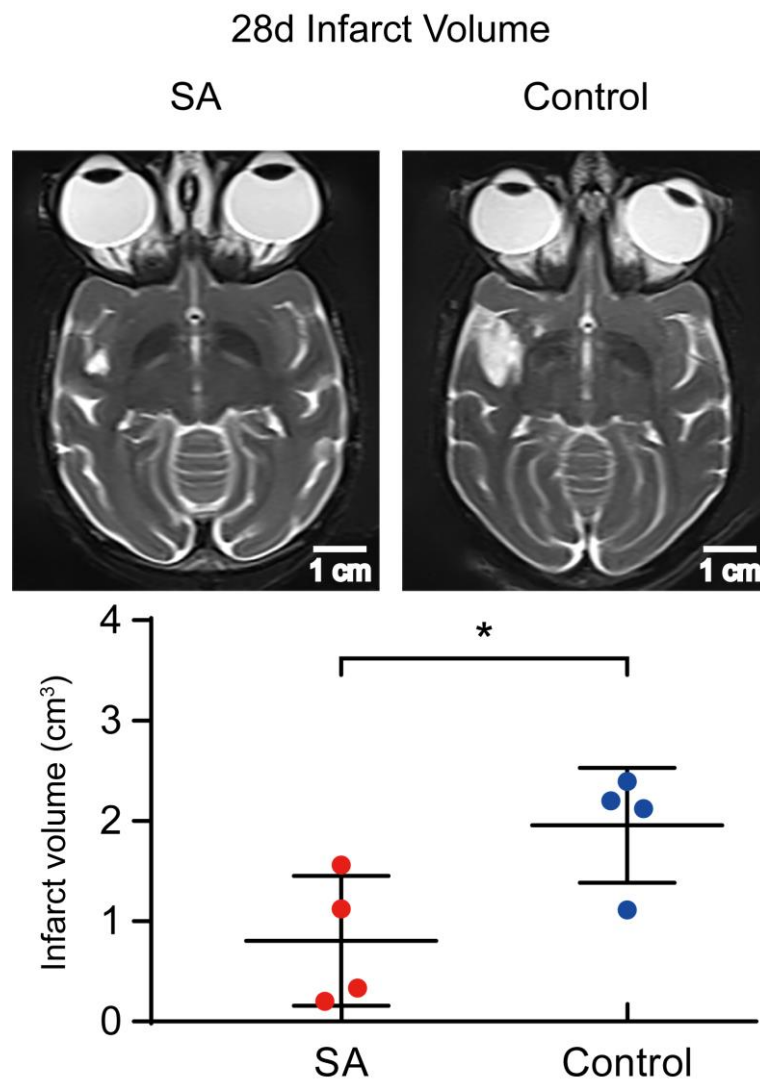
The multiple comparisons of NHPSS scores at specific time point were conducted with the Student's t-test between the SA group and control group. The significance level was set at $P \leq 0.0083$ (2-sided) since the type I error rate had been elevated in the repeated measures analysis of variance. SA, salvinorin A; NHPSS, Non-Human Primate Stroke Scale.



Supplemental Figure 1. Physiological parameters. Rectal temperature (A), systolic blood pressure (B), heart rate (C), and oxygen saturation (D) were presented at baseline, after embolization, and after administration with no significant differences between the two groups. SA, salvininorin A.



Supplemental Figure 2. Magnetic resonance angiography of experimental animals 24 hours after the procedure. These images, from magnetic resonance angiography of experimental animals 24 hours after the procedure, demonstrate that the right middle cerebral artery M2 segment remained occluded even 24 hours after procedure. Right middle cerebral artery M1 segment was clearly observed (**A**, black arrow). Right middle cerebral artery M2 segment was not shown (**B**, white arrow), whereas the left middle cerebral artery M2 segment was observed (**B**, black arrow), indicating the permanent occlusion of the right middle cerebral artery M2 segment. This finding enhances the credibility of our model.



Supplemental Figure 3. Infarct volume of experimental animals 28 days after the procedure. Representative T2-weighted images show that the infarct volume in the SA group at 28 days post procedure was smaller than that in the control group ($0.8 \pm 0.6 \text{ cm}^3$ versus $2.0 \pm 0.6 \text{ cm}^3$; $P=0.037$), indicating that the initial neuroprotective effect of SA was maintained. * indicates statistical significance. SA, salvinorin A.