

Table S1. Blood levels of corticosterone (CS), ACTH, IL1 β , TNF α and IL6 in MCAO-KM and MCAO-LM groups 3 month after surgery

Groups	SHAM-KM n=12	MCAO-KM n=8	SHAM-LM n=10	MCAO-LM n=9
CS, nmol/ml	1.33 \pm 0.08	1.39 \pm 0.15	1.13 \pm 0.17	0.89 \pm 0.12 [◊]
ACTH, ng/ml	4.44 \pm 0.61	4.87 \pm 1.07	3.06 \pm 0.39	4.79 \pm 0.59
IL1 β , pg/ml	79.96 \pm 18.94	77.38 \pm 28.64	70.15 \pm 17.62	74.14 \pm 20.51
TNF α , pg/ml	10.75 \pm 3.92	7.00 \pm 2.14	10.45 \pm 3.18	9.28 \pm 3.24
IL6, pg/ml	73.14 \pm 13.21	72.25 \pm 7.99	57.10 \pm 12.33	79.11 \pm 9.92

◊ - p<0.1 MCAO-KM vs. MCAO-LM.

Table S2. Brain levels of corticosterone (CS), IL1 β , TNF α and IL6 in MCAO-KM and MCAO-LM groups 3 month after surgery

Groups	SHAM-KM n=12	MCAO-KM n=8	SHAM-LM n=10	MCAO-LM n=9
Ipsilateral hippocampus				
CS, pmol/g tissue	85.6 \pm 7.7	169.0 \pm 35.7*	144.2 \pm 30.8	119.9 \pm 10.6
IL1 β , pg/g tissue	61.0 \pm 16.8	562.4 \pm 44.6*	416.7 \pm 60.9	150.3 \pm 30.3* [◊]
TNF α , pg/g tissue	355.3 \pm 26.7	657.9 \pm 55.4**	440.3 \pm 32.4	378.0 \pm 29.4 ^{◊◊}
IL6, ng/g tissue	2.49 \pm 0.13	3.01 \pm 0.38	2.93 \pm 0.20	2.65 \pm 0.32
Contralateral hippocampus				
CS, pmol/g tissue	71.0 \pm 7.8	205.1 \pm 39.4**	151.9 \pm 21.6	100.2 \pm 20.2 [◊]
IL1 β , pg/g tissue	80.0 \pm 30.7	643.9 \pm 63.6*	202.2 \pm 22.3	82.4 \pm 19.1 [◊]
TNF α , pg/g tissue	305.3 \pm 9.1	374.6 \pm 19.9**	317.9 \pm 5.6	305.7 \pm 10.4 [◊]
IL6, ng/g tissue	2.38 \pm 0.17	2.52 \pm 0.16	2.74 \pm 0.24	2.32 \pm 0.17
Ipsilateral FC				
CS, pmol/g tissue	125.5 \pm 4.5	169.9 \pm 22.3	133.3 \pm 17.3	100.8 \pm 11.0 [◊]
IL1 β , pg/g tissue	129.6 \pm 41.4	726.8 \pm 51.2**	382.5 \pm 17.62	171.0 \pm 30.7* ^{◊◊}
TNF α , pg/g tissue	228.4 \pm 16.8	471.6 \pm 53.6**	205.7 \pm 8.0	208.5 \pm 14.7 ^{◊◊}

IL6, ng/g tissue	2.37±0.15	2.71±0.31	2.53±0.18	2.19±0.18
Contralateral FC				
CS, pmol/g tissue	123.3±9.6	167.7±20.0	146.2±18.8	106.5±14.1
IL1 β , pg/g tissue	313.1±70.4	525.0±52.6**	254.1±67.1	42.5±29.8**
TNF α , pg/g tissue	327.4±50.4	268.3±18.2	236.1±18.0	213.8±21.5
IL6, ng/g tissue	2.18±0.11	2.43±0.34	2.49±0.18	2.19±0.17

**⁰⁰ p < 0.01 and *⁰ p < 0.05 for respective sham-operated groups vs MCAO (asterisk) or MCAO-KM vs MCAO-LM (rhombus).

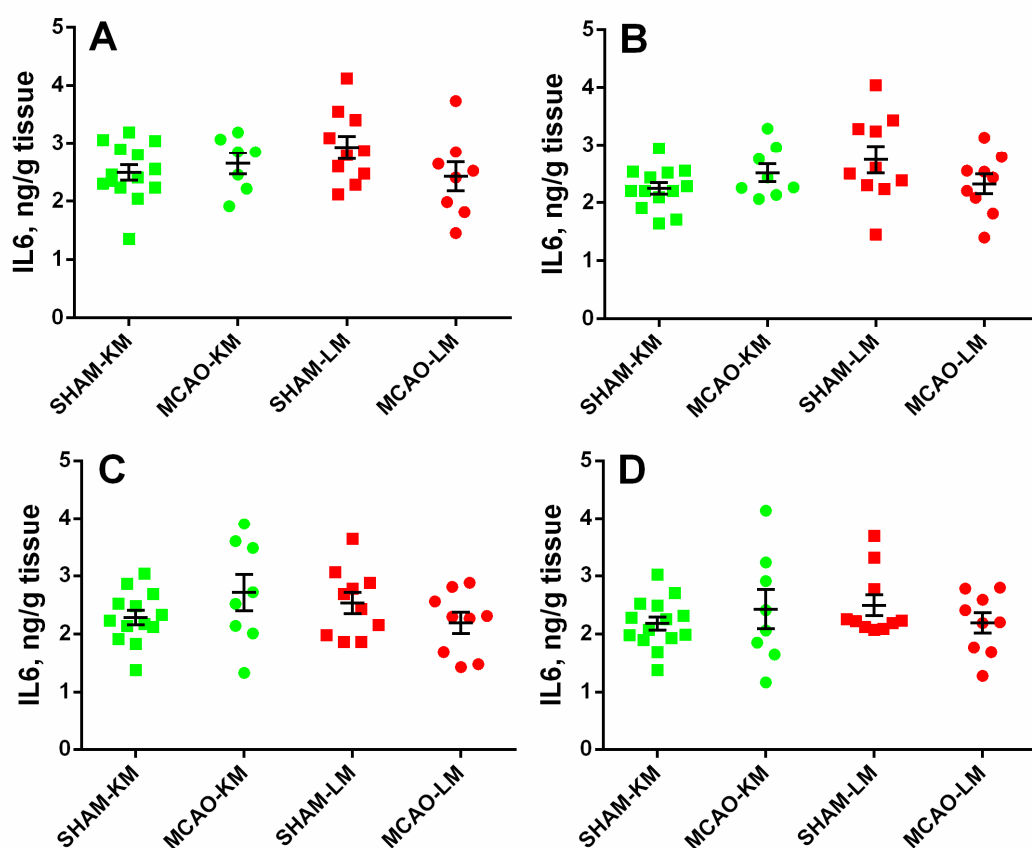


Figure S1. IL6 levels in the hippocampus (A, B) and FC (C, D) in MCAO-KM and MCAO-LM groups 3 months after surgery. (A) Ipsilateral hippocampus. (B) Contralateral hippocampus. (C) Ipsilateral FC. (D) Contralateral FC. (A-D) IL6, pg/g tissue.

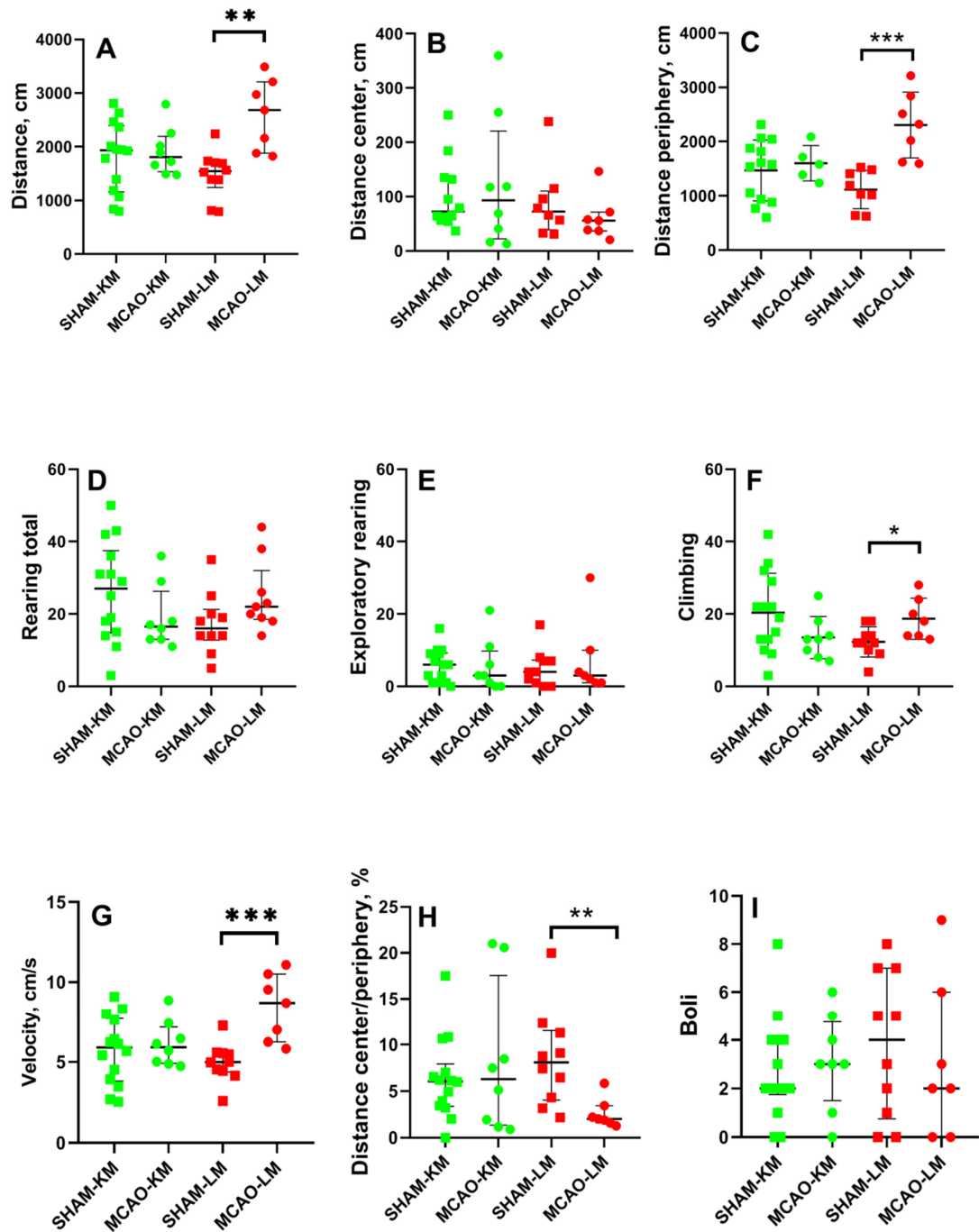


Figure S2. Effects of focal brain ischemia on behavior of MCAO-KM and MCAO-LM groups in the open field test 3 months after surgery. (A) Total distance traveled during the testing. (B) and (C). Distance traveled in the central and peripheral zones of the arena, respectively. (D) Total number of rearing. (E) Exploratory rearing. (F) Climbing. (G) Velocity. (H) Ratio of distance traveled in the central and peripheral zones of the arena. (I) Number of defecation boli. * - $p < 0.05$, ** - $p < 0.01$ and *** $p < 0.001$ (Mann-Whitney U-test).

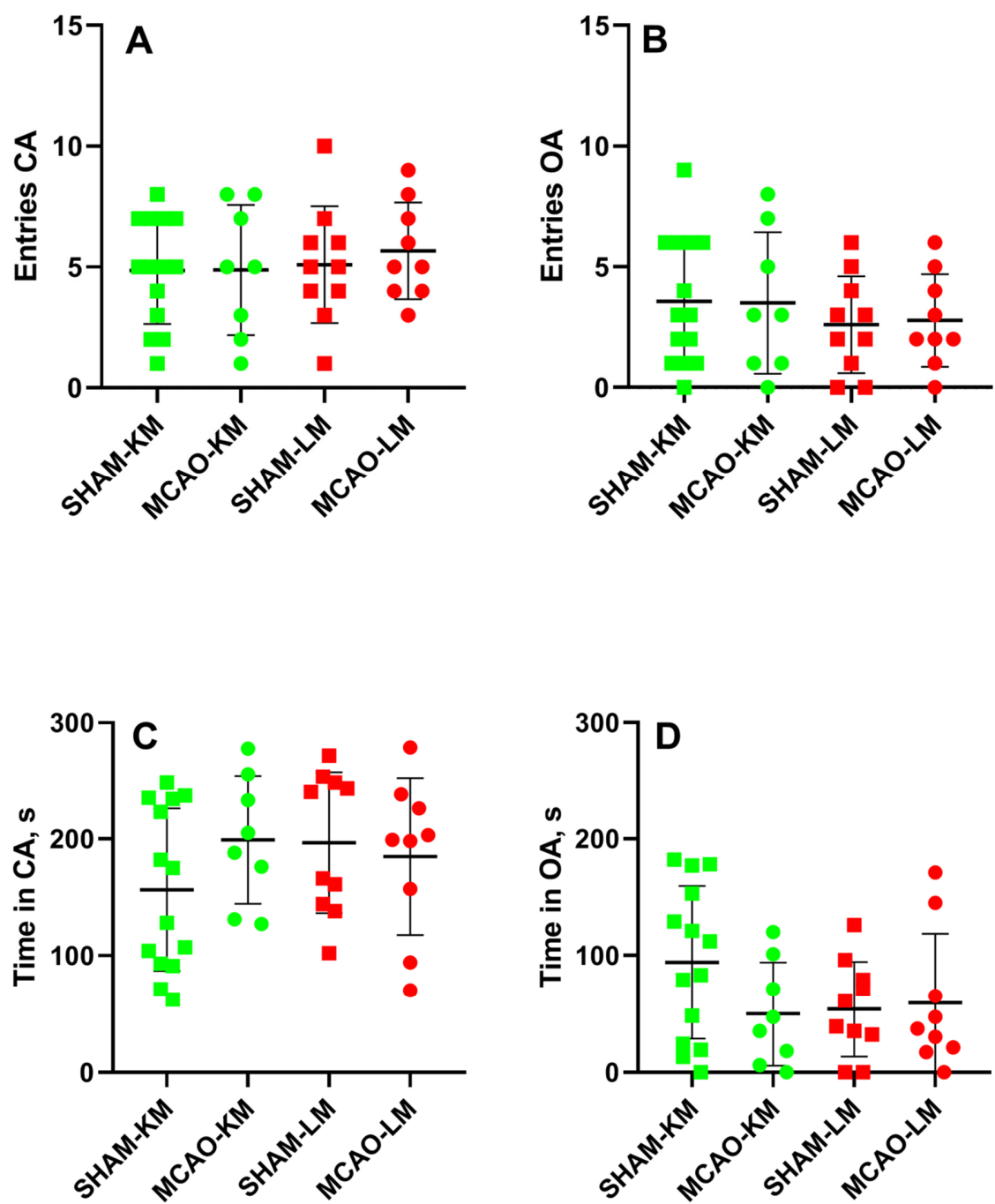


Figure S3. Effects of focal brain ischemia on behavior of MCAO-KM and MCAO-LM groups in the elevated plus maze 3 months after surgery. (A) and (B) Entries into the closed (CA) or open arms (OA). (C) and (D) Time spent in the closed or open arms, respectively.