

## **Supplementary material**

**Article title:** Distinctions between the Koizumi and Longa methods for middle cerebral artery occlusion (MCAO) model: A systematic review and meta-analysis of rodent data

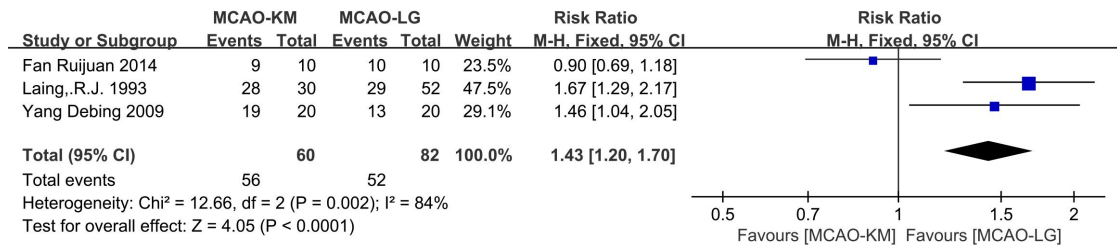
**Journal name:** Scientific Reports

**Author names:** Yong Li<sup>1</sup>, Li Tan<sup>1</sup>, Caixia Yang<sup>1</sup>, Liying He<sup>1</sup>, Lin Liu<sup>1</sup>, Bowen Deng<sup>1</sup>, Sijing Liu, Jinlin Guo<sup>1</sup>

**Affiliation and e-mail address of the corresponding author:**

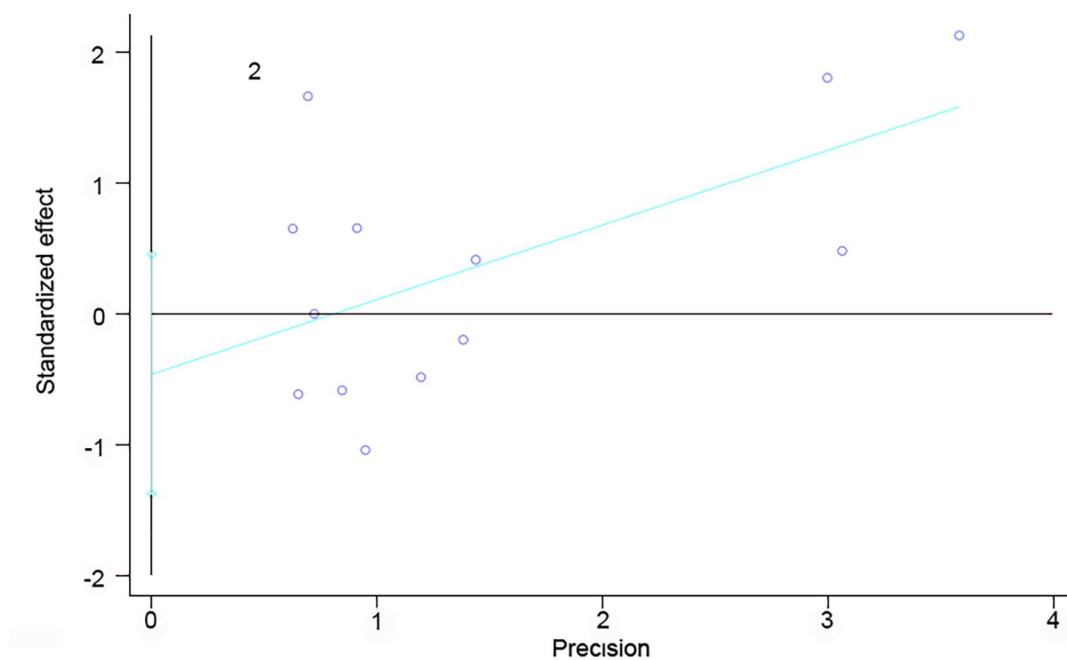
Jinlin Guo (guo596@cdutcm.edu.cn),

College of Pharmacy, Chengdu University of Traditional Chinese Medicine, Chengdu, China



**Figure 1.** Forest plot of the filament insertion success rate before sensitivity analysis between the MCAO-KM and the MCAO-LG.

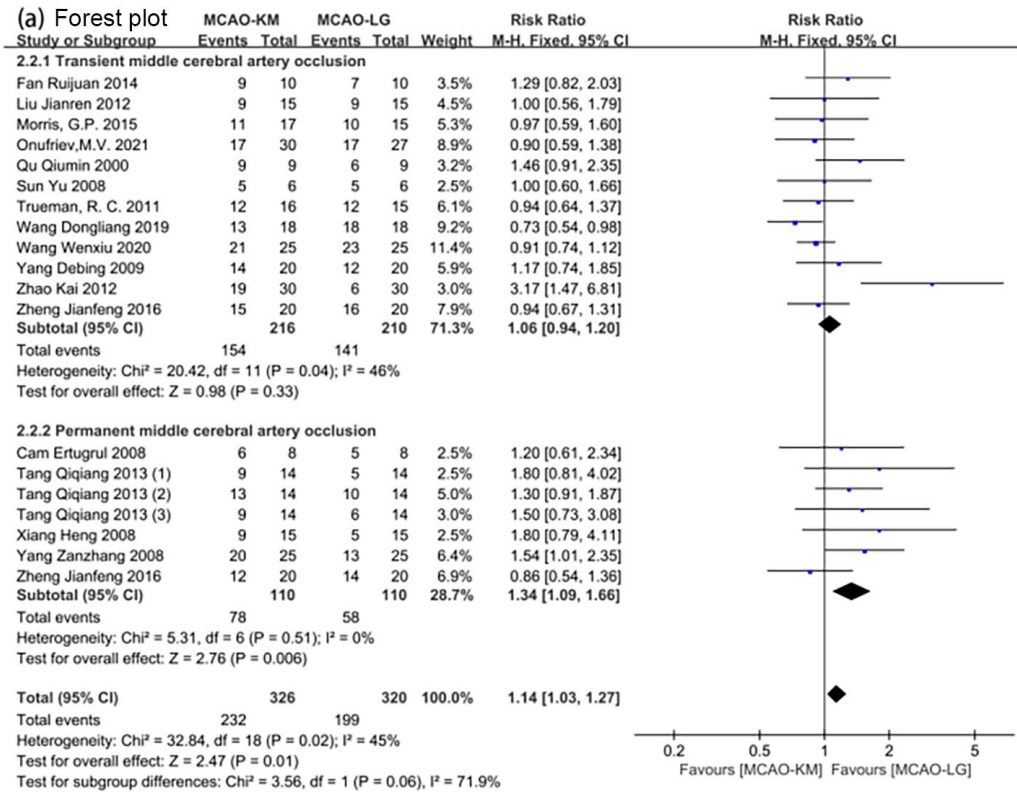
**(a)** Egger's publication bias plot



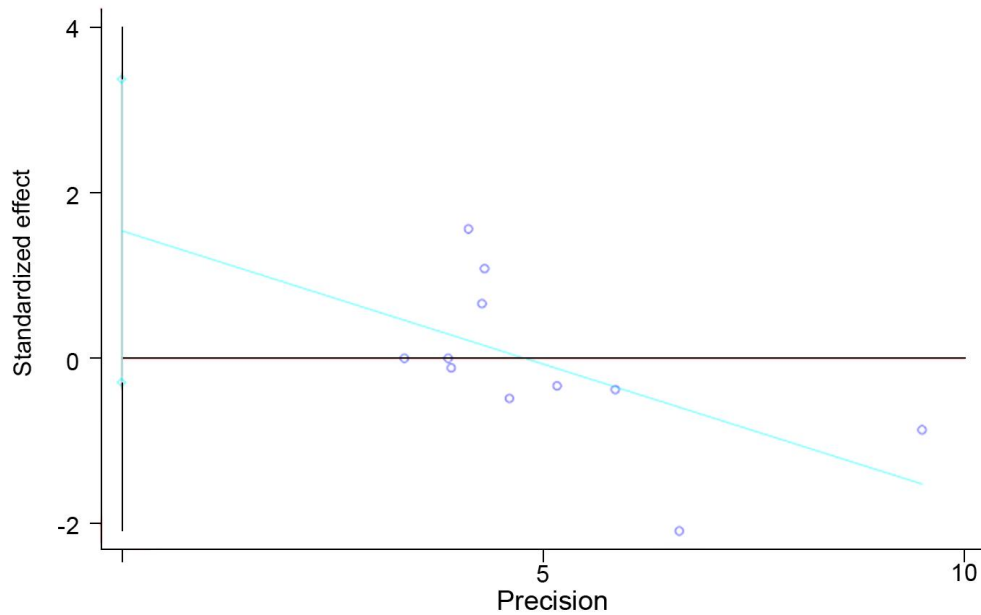
**(b)** Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	.5709336	.2349298	2.43	0.033	.0538567	1.088011
bias	-.4621282	.4166149	-1.11	0.291	-1.379091	.4548351

**Figure 2.** Postoperative mortality of MCAO model between the MCAO-KM and the MCAO-LG. (a) Egger's publication bias plot, and (b) Egger's test results.



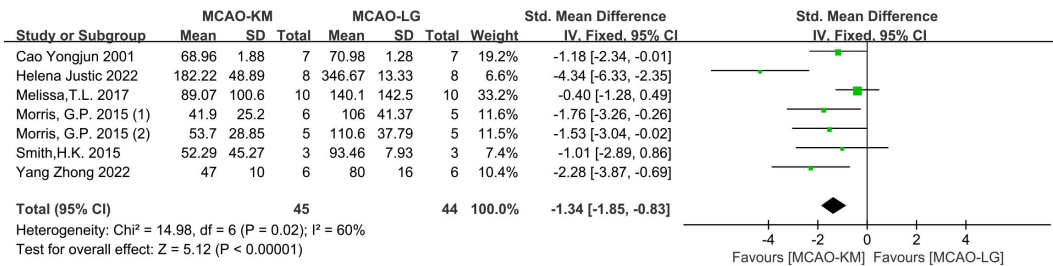
(b) Egger's publication bias plot



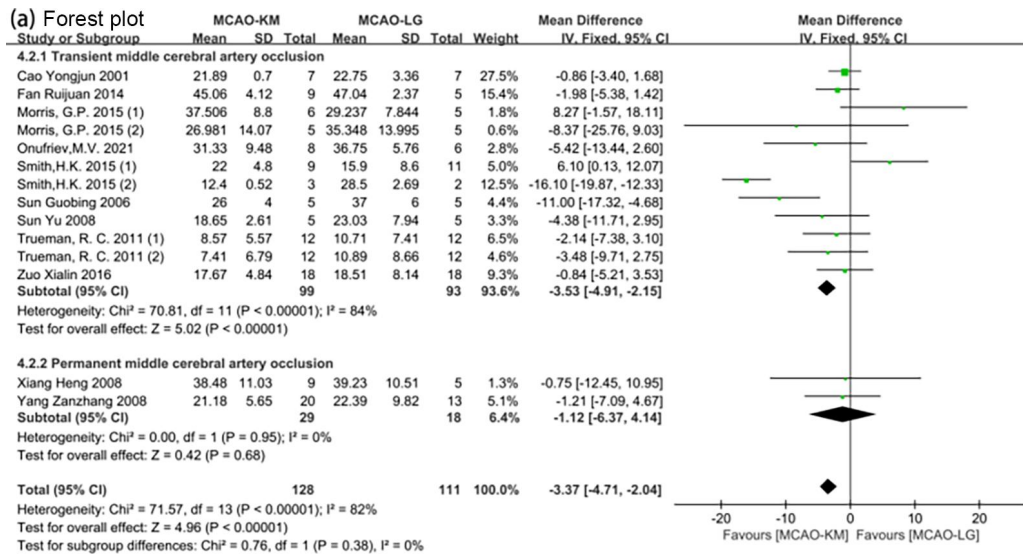
(c) Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	-.3219122	.1519904	-2.12	0.063	-.6657384	.021914
bias	1.538604	.8084191	1.90	0.089	-.290167	3.367375

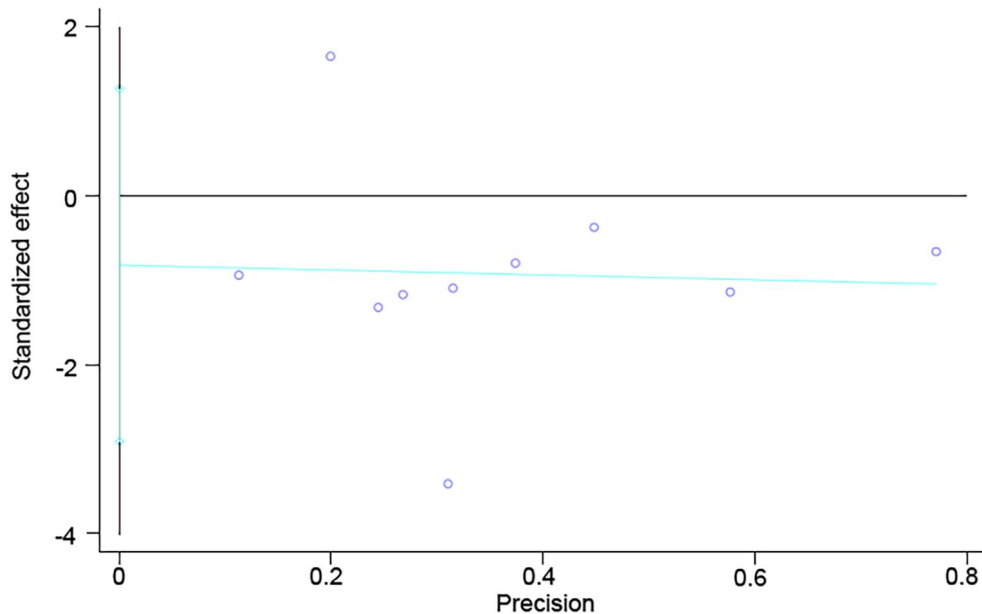
**Figure 3.** Success rates of MCAO model animal between the MCAO-KM and MCAO-LG. (a) Forest plot before sensitivity analysis, (b) Egger's publication bias plot, and (c) Egger's test results.



**Figure 4.** Forest plot of cerebral blood flow test between the MCAO-KM and the MCAO-LG.



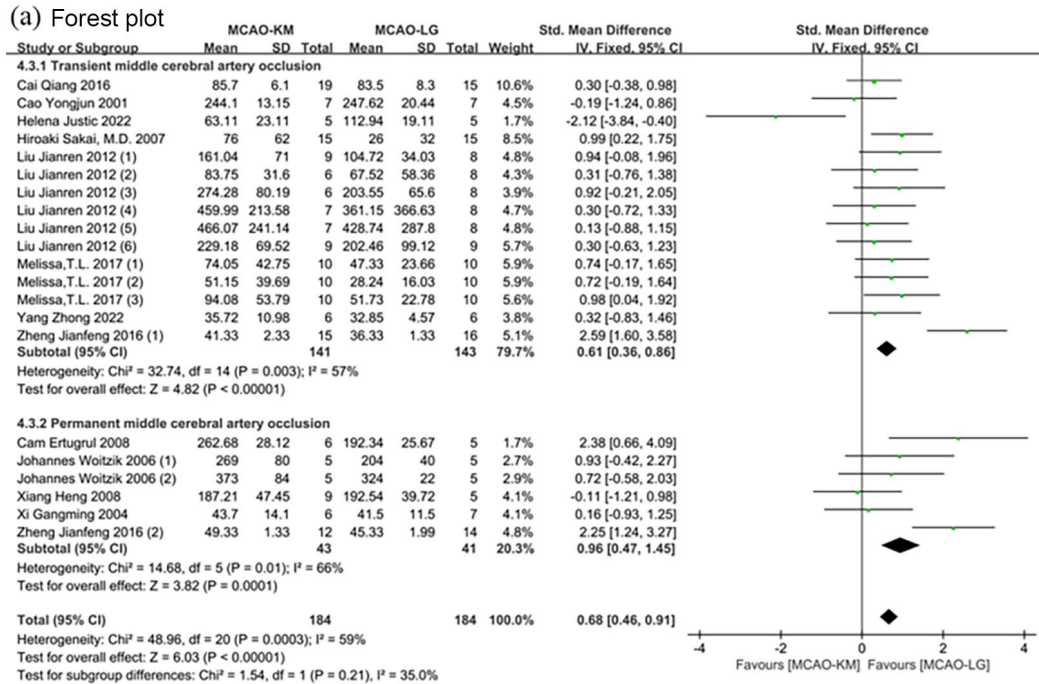
**(b) Egger's publication bias plot**



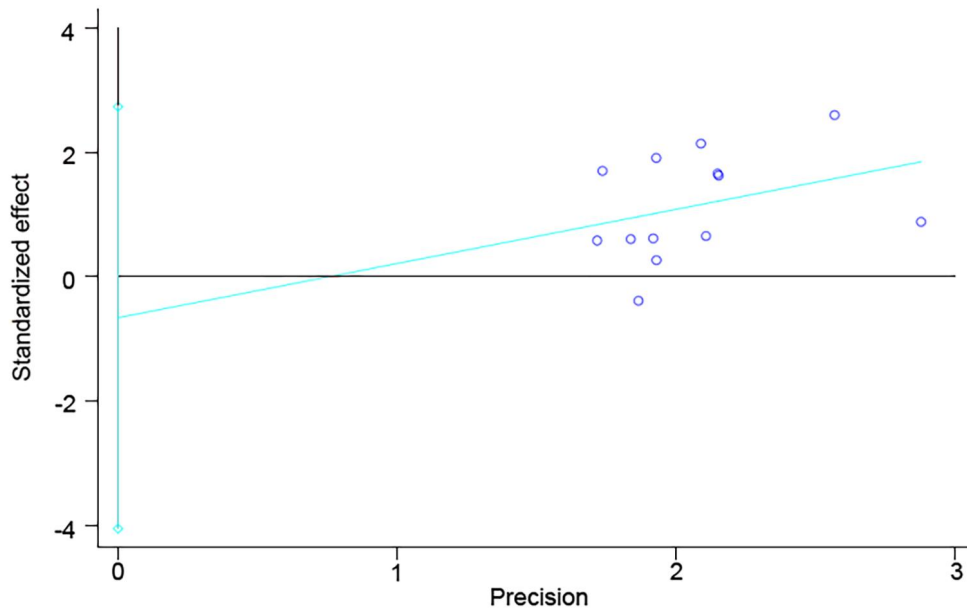
**(c) Egger's test**

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
slope	- .2895647	2.233063	-0.13	0.900	-5.439017 4.859888
bias	- .8230793	.9058966	-0.91	0.390	-2.912081 1.265922

**Figure 5.** Cerebral infarction rate between the MCAO-KM and the MCAO-LG. Forest plot (a) before sensitivity analysis, Egger's publication bias plot (b), and Egger's test results (c) are shown as follows.



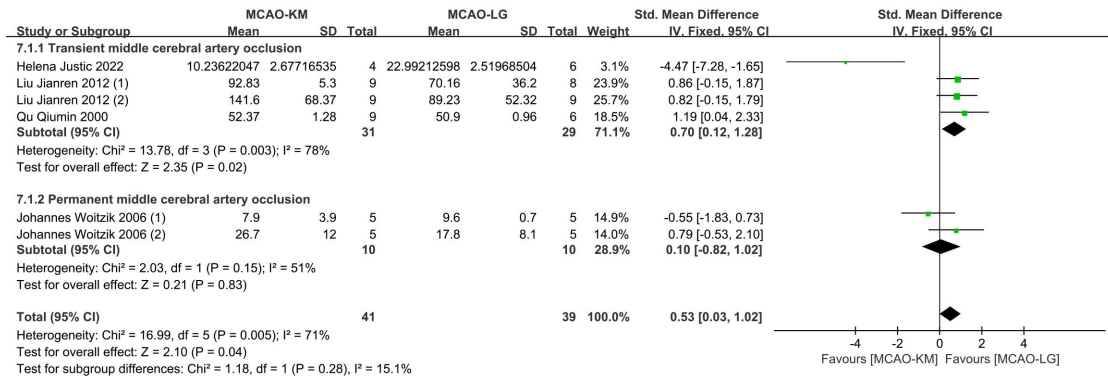
(b) Egger's publication bias plot



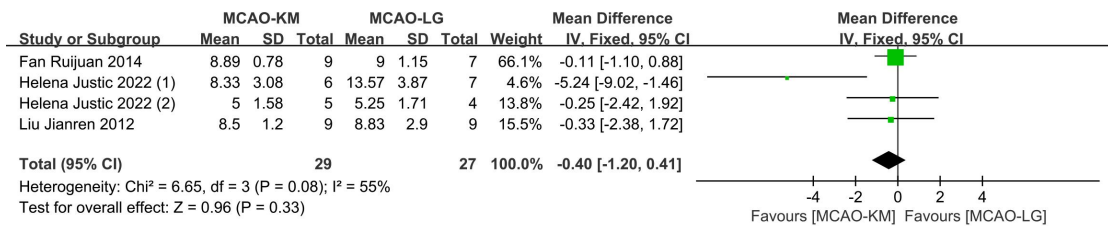
(c) Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
slope	.87047	.7361794	1.18	0.262	-.74985 2.49079
bias	-.6535626	1.539623	-0.42	0.679	-4.04225 2.735125

**Figure 6.** Cerebral infarct volume between the MCAO-KM and the MCAO-LG. Forest plot (a) before sensitivity analysis, Egger's publication bias plot (b), and Egger's test results (c) are shown as follows.



**Figure 7.** Forest plots of brain edema test between the MCAO-KM and the MCAO-LG.



**Figure 8.** Garcia scores between the MCAO-KM and the MCAO-LG.