

Supplementary Material

Effectiveness and Safety of Acupuncture for Vascular Cognitive Impairment: A Systematic Review and Meta-Analysis

Xin-Tong Su^{1,2}, Ning Sun³, Na Zhang⁴, Li-Qiong Wang¹, Xuan Zou¹, Jin-Ling Li¹, Jing-Wen Yang¹, Guang-Xia Shi^{1*} and Cun-Zhi Liu^{1,2*}

¹ International Acupuncture and Moxibustion Innovation Institute, School of Acupuncture-Moxibustion and Tuina, Beijing University of Chinese Medicine, Beijing, China

² Traditional Chinese Medicine (TCM) in the Prevention and Rehabilitation of Stroke Task Force, World Stroke Organization, Geneva, Switzerland

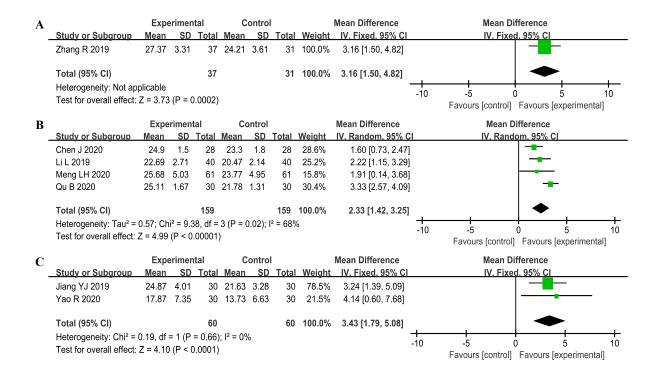
³ Acupuncture and Tuina School/The 3rd Teaching Hospital, Chengdu University of Traditional Chinese Medicine, Chengdu, China

⁴ School of Acupuncture-Moxibustion and Tuina, Shandong University of Chinese Medicine, Jinan, China

		Expe	riment	tal	C	ontrol			Mean Difference	Mean Difference
Α	Study or Subaroup	Mean		Total			Total	Weight	IV. Random, 95% C	
	1.2.1 MA versus WM	mean		Total	mean	00	Total	Weight	<u>11, Randolli, 0070 C</u>	
	Cao R 2014	27.85	1 62	40	24.36	4.5	40	8.7%	3.49 [1.49, 5.49]	
	Chen XM 2009	24.01			22.56		31	8.4%	1.45 [-0.63, 3.53]	
	Li PF 2012	14.86			13.67		50	13.2%	1.19 [0.42, 1.96]	
	Liu YC 2006	19.54			18.27		20	4.4%	1.19 [0.42, 1.90]	
	Liu YC 2008	18.45			18.56		20 45	4.4 <i>%</i> 7.5%	-0.11 [-2.48, 2.26]	
	Li Y 2009	23.24		30		1.07	45 30	13.9%	3.24 [2.69, 3.79]	
		23.24 19.43			20 17.38		30 30	8.1%		
	Meng XF 2009						30 30		2.05 [-0.13, 4.23]	
	Niu WM 2007	23.08	4.20	30 277	22.19	3.04	30 276	8.7% 73.0%	0.89 [-1.12, 2.90]	
	Subtotal (95% CI)		2 - 07		- 7 (D	0 000			1.83 [0.79, 2.87]	
	Heterogeneity: Tau ² =				= 7 (P =	0.000	3); 1² =	74%		
	Test for overall effect: 2	2 = 3.44	(P = 0	.0006)						
	1.2.2 EA versus WM									
	Jiang GH 2003	19.87	4 4 8	23	17.96	3 4 8	23	7.7%	1.91 [-0.41, 4.23]	+
	Liu ZB 2008	24.01			22.97		30	8.7%	1.04 [-0.97, 3.05]	
	Mo FZ 2000a	19.41			12.68		30	5.4%	6.73 [3.54, 9.92]	
	Mo FZ 2000b	17.93			12.78		31	5.3%	5.15 [1.94, 8.36]	
	Subtotal (95% CI)	17.55	0.15	114	12.70	0.74	114	27.0%	3.47 [0.92, 6.02]	
	Heterogeneity: Tau ² = -	1 01· Ch	ji² = 11		- 3 (P -	0.010			0.47 [0.02, 0.02]	-
	Test for overall effect: 2	· · ·			– J (F –	0.010), 1 – 7	4 /0		
	Test for overall effect.	2 - 2.00	(F - 0	.000)						
	Total (95% CI)			391			390	100.0%	2.20 [1.27, 3.13]	•
	Heterogeneity: Tau ² =	1.55; Ch	i² = 39	.26, df	= 11 (P	< 0.00	01); l² =	= 72%		-10 -5 0 5 10
	Test for overall effect: 2	Z = 4.63	(P < 0	.00001)					Favours [control] Favours [experimental]
	Test for subgroup diffe	rences:	Chi² =	1.36, d	f = 1 (P	= 0.24), I² = 2	6.4%		
В		Exp	erimen	ntal	c	ontrol			Mean Difference	Mean Difference
	Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
	Chu JM 2008	18.95			17.12		32		1.83 [-0.25, 3.91]	
	Huang WC 1992	30.33			26.83		18		3.50 [1.20, 5.80]	
	Liu YC 2006	21.78			18.27		20		3.51 [-0.11, 7.13]	
	Li W 2012	25.75			24.67		46		1.08 [-0.13, 2.29]	
		20.10	0.21	40	24.07	2.75	40	50.070	1.00 [-0.13, 2.23]	Γ
	Total (95% CI)			119			116	100.0%	1.77 [0.85, 2.69]	◆
	Heterogeneity: Chi ² =	4.33. df	= 3 (P	= 0.23	$ ^{2} = 31$	%				+ + + +
	Test for overall effect:		· ·			70				-20 -10 0 10 20
		2 0.70	, (1)							Favours [control] Favours [experimental]
С		Exp	erimen	ntal	С	ontrol			Mean Difference	Mean Difference
	Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV. Fixed, 95% CI
	Pan MZ 2013	23.61		30		4.53	30		5.01 [2.44, 7.58]	· · · · · · · · · · · · · · · · · · ·
	Wang F 2017a	26.8	5.2	58			59		7.00 [5.36, 8.64]	
		20.0	5.2	00	10.0	5.7	00	70		
	Total (95% CI)			88			89	100.0%	6.42 [5.04, 7.81]	•
	· · ·	1.64. df	= 1 (P): ² = 39	9%	89	100.0%	6.42 [5.04, 7.81]	+ + + + + + + + + + + + + + + + + + +
	Total (95% CI) Heterogeneity: Chi ² = Test for overall effect:		,	= 0.20		9%	89	100.0%	6.42 [5.04, 7.81]	-20 -10 0 10 20 Favours [control] Favours [experimental]

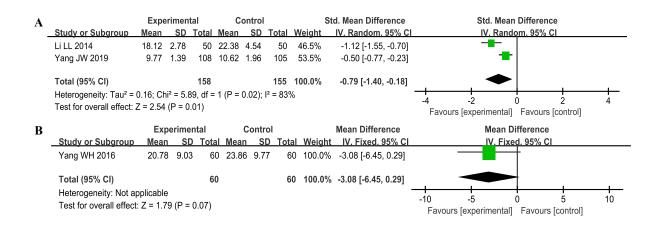
Supplementary Figure 1. The forest plot of HDS. (A) acupuncture vs. WM, (B) acupuncture plus

WM vs. WM alone, (C) acupuncture plus UC vs. UC alone.



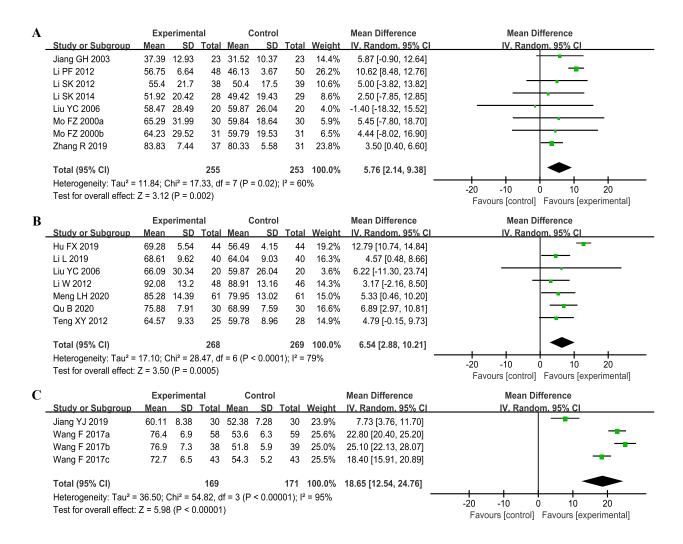
Supplementary Figure 2. The forest plot of MoCA. (A) acupuncture vs. WM, (B) acupuncture plus

WM vs. WM alone, (C) acupuncture plus UC vs. UC alone.



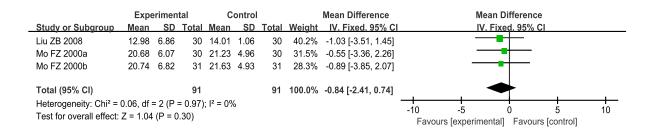
Supplementary Figure 3. The forest plot of ADAS-cog. (A) acupuncture vs. WM, (B) acupuncture

plus WM vs. WM alone.

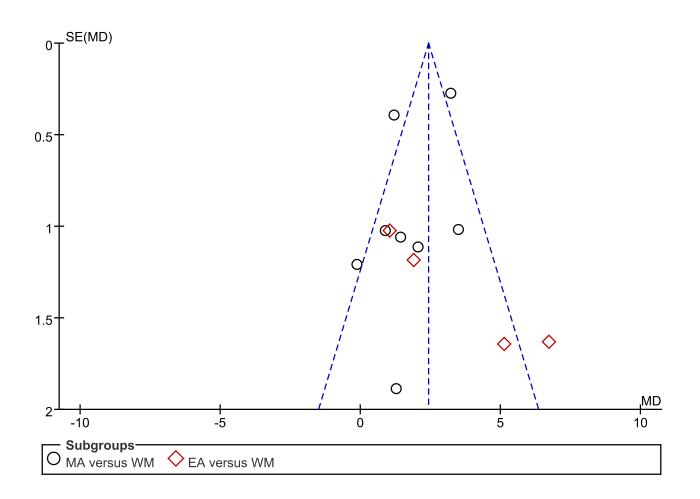


Supplementary Figure 4. The forest plot of BI. (A) acupuncture vs. WM, (B) acupuncture plus WM

vs. WM alone, (C) acupuncture plus UC vs. UC alone.



Supplementary Figure 5. The forest plot of FAQ comparing acupuncture vs. WM.



Supplementary Figure 6. The funnel plot of HDS comparing acupuncture vs. WM.