

Supplementary Online Content

Yan M, Fan J, Liu X, et al. Efficacy of acupuncture for patients with Parkinson disease who have poor sleep quality: a randomized clinical trial. *JAMA Netw Open*. 2024;7(6):e2417862. doi:10.1001/jamanetworkopen.2024.17862

eFigure 1. Schematic Diagram of the Auxiliary Acupuncture Device

eFigure 2. Auxiliary Acupuncture Device

eFigure 3. Acupoint Locations

eFigure 4. Therapeutic Effects of Acupuncture

eTable 1. Procedure Diagram

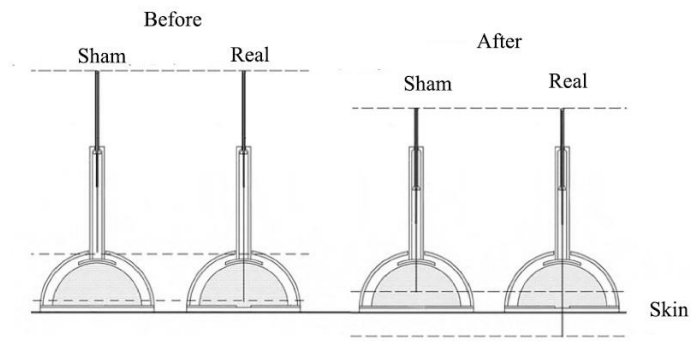
eTable 2. Blinding Assessment

eTable 3. Primary and Secondary Outcomes

eTable 4. Acupuncture-Related Adverse Events

This supplementary material has been provided by the authors to give readers additional information about their work.

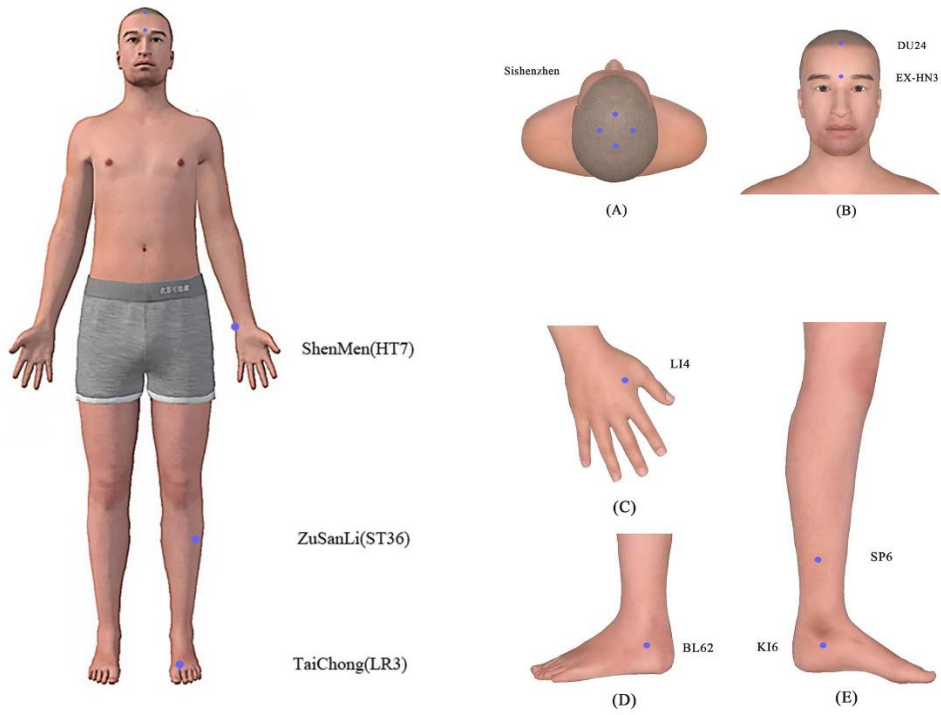
eFigure 1. Schematic Diagram of the Auxiliary Acupuncture Device



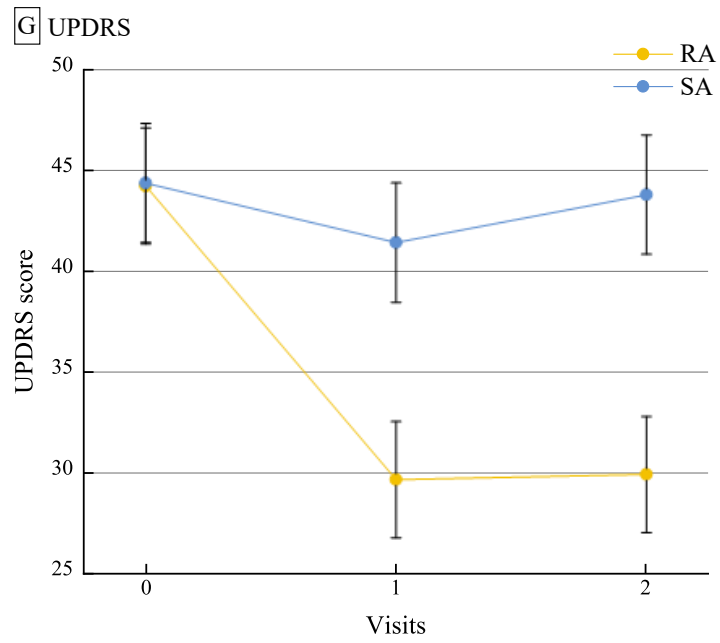
eFigure 2. Auxiliary Acupuncture Device



eFigure 3. Acupoint Locations



eFigure 4. Therapeutic Effects of Acupuncture



G, improvement in UPDRS score

eTable 1. Procedure Diagram

Study period		Intervention period		Follow-up period
Time point		week 0	Week 4	Week8
Eligibility screening		×		
Informed consent		×		
Randomization		×		
Primary outcome		PDSS	×	×
Secondary outcomes	Assessment of motor symptoms	UPDRS	×	×
		UPDRS-III	×	×
		LED	×	×
	Assessment of non-motor symptoms	NMSS	×	×
		ESS	×	×
		HAMA	×	×
	Quality of life	PDQ-39	×	×
			×	×
AEs			×	×
Compliance evaluation			×	×

eTable 2. Blinding Assessment

Group	Acupuncture (n)	Sham acupuncture (n)	κ
Real acupuncture group(n=40)	23	17	0.154
Sham acupuncture group(n=38)	16	22	

Note: Cohen's kappa of the Auxiliary Acupuncture Device

eTable 3. Primary and Secondary Outcomes

Domin		Significance
Primary outcome		PDSS nocturnal sleep quality, scores range from 0 to 150, with higher scores indicating better sleep quality and less sleep disorders.
Secondary outcomes	Assessment of motor symptoms	UPDRS Overall assessment, scores range from 0 to 192, with higher scores indicating more severe overall symptoms of Parkinson's disease
		UPDRS-III Motor status, scores range from 0 to 56, with higher scores indicating more severe motor symptoms of Parkinson's disease
		LED Levodopa equivalent dose conversion
	Assessment of non-motor symptoms	NMSS Overall NMS assessment, scores range from 0 to 120, with higher scores indicating more severe non-motor symptoms of Parkinson's disease
		ESS Daytime sleepiness level, Scores range from 0 to 24, with higher scores indicating more serious sleepiness.
		HAMA Anxiety state, a Scores range from 0 to 56, with higher scores indicating more serious anxiety
Quality of life	PDQ-39 Scores range from 0 to 156, with higher scores indicating worse quality of life	

eTable 4. Acupuncture-Related Adverse Events

Adverse Event	RA (n=40)		SA(n=38)	
	Participants,n(%)	Events,n	Participants,n(%)	Events,n
Needle left in participant	0	0	0	0
Nausea	1(2.5)	1	0	0
Fainted	0(0)	0	0	0
Severe sharp pain	4(10)	6	1(2.6)	0
Sharp pain lasting >10min	1(2.5)	3	0	0
Hematoma	3(7.5)	5	0	0
Bleeding/numbness/infection	5(12.5)	5	0	0
Severe tremor during treatment	7(17.5)	7	9(23.7)	9
allergy	2(5)	2	1(2.6)	0
Other discomforts after acupuncture	3(7.5)	3	1(2.6)	1