

Appendix 1. Search strategies

Ovid MEDLINE

(massag* or anno or acupress* or tuina or acupunct* or electroacupunct* or electro-acupunct* or acupoint* or meridia* or auricular or needl* or moxibustion or moxa).mp. and (dysmenorr* or menstrua* pain or period cramp or period pain* or menstrua* distress or period distress or menstrua* distress).m_titl. [mp=title, book title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms, population supplementary concept word, anatomy supplementary concept word]

Records retrieved: 295

Embase

(massag*:ti OR anno:ti OR acupress*:ti OR tuina:ti OR acupunct*:ti OR electroacupunct*:ti OR 'electro acupunct*':ti OR acupoint*:ti OR meridia*:ti OR auricular:ti OR needl*:ti OR moxibustion:ti OR moxa:ti) AND (dysmenorr*:ti OR 'menstrua* pain':ti OR 'period cramp':ti OR 'period pain*':ti OR 'period distress':ti OR 'menstrua* distress':ti)

Records retrieved: 309

Health Technology Assessment Database (HTA)

((massag* OR anno OR acupress* OR tuina OR acupunct* OR electroacupunct* OR electro-acupunct* OR acupoint* OR meridia* OR auricular OR needl* OR moxibustion OR moxa))[Title] AND ((dysmenorr* OR menstrua* pain OR period cramp OR period pain* OR menstrua* distress OR period distress OR menstrua* distress))[Title]

Records retrieved: 19

Cochrane Central Register of Controlled Trials

Word variations have been searched.

Search string: (massag* OR anno OR acupress* OR tuina OR acupunct* OR electroacupunct* OR electro-acupunct* OR acupoint* OR meridia* OR auricular OR needl* OR moxibustion OR moxa) in Title Abstract Keyword AND (dysmenorr* OR menstrua* pain OR period cramp OR period pain* OR menstrua* distress OR period distress OR menstrua* distress) in Title Abstract Keyword

Records retrieved: 55

Web of Science

(TI=((massag* OR anno OR acupress* OR tuina OR acupunct* OR electroacupunct* OR electro-acupunct* OR acupoint* OR meridia* OR auricular OR needl* OR moxibustion OR moxa))) AND TI=((dysmenorr* OR menstrua* pain OR period cramp OR period pain* OR menstrua* distress OR period distress OR menstrua* distress))

Records retrieved: 186

the China National Knowledge Infrastructure (CNKI)

#1

(篇名: 按摩 + 针刺 + 推拿 + 针灸 + 电针 + 穴位 + 穴位按摩 + 经络 + 耳穴 + 针刺 + 艾灸 + 艾草 (模糊))
AND (篇名: 痛经 + 月经疼痛 + 经期痉挛 + 经期疼痛 + 经期困扰 + 月经困扰 (模糊))

Records retrieved: 2346

#2

(篇名: 按摩 + 针刺 + 推拿 + 针灸 + 电针 + 穴位 + 穴位按摩 + 经络 + 耳穴 + 针刺 + 艾灸 + 艾草 (精确))
AND (篇名: 痛经 + 月经疼痛 + 经期痉挛 + 经期疼痛 + 经期困扰 + 月经困扰 (精确))

Records retrieved: 33

Wanfang Data

#1

题名:(按摩 OR 针刺 OR 推拿 OR 针灸 OR 电针 OR 穴位 OR 穴位按摩 OR 经络 OR 耳穴 OR 针刺 OR 艾灸 OR 艾草) and 题名:(痛经 OR 月经疼痛 OR 经期痉挛 OR 经期疼痛 OR 经期困扰 OR 月经困扰)

Records retrieved: 2507

#2

题名:(按摩 OR 针刺 OR 推拿 OR 针灸 OR 电针 OR 穴位 OR 穴位按摩 OR 经络 OR 耳穴 OR 针刺 OR 艾灸 OR 艾草) and 题名:(痛经 OR 月经疼痛 OR 经期痉挛 OR 经期疼痛 OR 经期困扰 OR 月经困扰) 分类号:"医药、卫生"

Records retrieved: 2341

#3

题名:(按摩 OR 针刺 OR 推拿 OR 针灸 OR 电针 OR 穴位 OR 穴位按摩 OR 经络 OR 耳穴 OR 针刺 OR 艾灸 OR 艾草) and 题名:(痛经 OR 月经疼痛 OR 经期痉挛 OR 经期疼痛 OR 经期困扰 OR 月经困扰) not 题名:(心得体会 OR 病例 OR 经验摘要 OR 经验撷菁 OR 教学 OR 体会) 分类号:"医药、卫生"

Records retrieved: 2274

PubMed

((massag*[Title] OR anmo[Title] OR acupress*[Title] OR tuina[Title] OR acupunct*[Title] OR electroacupunct*[Title] OR electro-acupunct*[Title] OR acupoint*[Title] OR meridia*[Title] OR auricular[Title] OR needl*[Title] OR moxibustion[Title] OR moxa[Title])) AND ((dysmenorr*[Title] OR menstrua* pain[Title] OR period cramp[Title] OR period pain*[Title] OR menstrua* distress[Title] OR period distress[Title] OR menstrua* distress[Title]))

Records retrieved: 275

SinoMed

#1

检索条件 : ("(按摩"[标题:智能] OR "针刺"[标题:智能] OR "推拿"[标题:智能] OR "针灸"[标题:智能] OR "电针"[标题:智能] OR "穴位"[标题:智能] OR "穴位按摩"[标题:智能] OR "经络"[标题:智能] OR "耳穴"[标题:智能] OR "针刺"[标题:智能] OR "艾灸"[标题:智能] OR "艾草)"[标题:智能]) AND (痛经 OR 月经疼痛 OR 经期痉挛 OR 经期疼痛 OR 经期困扰 OR 月经困扰)

Records retrieved: 2266

#2

检索条件 : ("(按摩"[标题] OR "针刺"[标题] OR "推拿"[标题] OR "针灸"[标题] OR "电针"[标题] OR "穴位"[标题] OR "穴位按摩"[标题] OR "经络"[标题] OR "耳穴"[标题] OR "针刺"[标题] OR "艾灸"[标题] OR "艾草)"[标题]) AND (痛经 OR 月经疼痛 OR 经期痉挛 OR 经期疼痛 OR 经期困扰 OR 月经困扰)

Records retrieved: 2092

CQVIP

题名=(按摩 OR 针刺 OR 推拿 OR 针灸 OR 电针 OR 穴位 OR 穴位按摩 OR 经络 OR 耳穴 OR 针刺 OR 艾灸 OR 艾草) AND 题名=(痛经 OR 月经疼痛 OR 经期痉挛 OR 经期疼痛 OR 经期困扰 OR 月经困扰)

Records retrieved: 1872

Appendix 2. Excluded studies that were read in full-text and the reasons for exclusion

Study	Original title	Reason for exclusion
Zhang (2021)	Effectiveness and Safety of Moxibustion Robots on Primary Dysmenorrhea: A Randomized Controlled Pilot Trial	Both intervention groups used moxibustion (manual moxibustion vs robot moxibustion).
Youn (2008)	Effect of Acupuncture Treatment on the Primary Dysmenorrhea: A Study of Single Blind, Sham Acupuncture, Randomized, Controlled Clinical Trial	The full-text was published in Korean.
Li (2018)	逆灸法治疗女兵原发性痛经疗效观察及对 PGE、β-EP 水平的调节作用	The study does not have pain outcome measures.
Zhang (2017)	针刺三阴交对原发性痛经患者静息态海马功能连接度的影响	The study does not have pain outcome measures.
Jia (2019)	隔姜铺灸治疗寒湿凝滞型原发性痛经疗效观察	The control group is usual care.
Tian (2021)	Acupuncture for dysmenorrhea of adenomyosis: A randomized controlled trial	The target condition is not primary dysmenorrhea.
Liu (2019)	Effect of herb-partitioned moxibustion for primary dysmenorrhea: a randomized clinical trial	The treatment is herb-partitioned moxibustion, which combined herb and moxibustion.
Bahrami-Taghanaki (2017)	Effects of acupuncture and mefenamic acid on primary dysmenorrhea	The full-text was published in Iranian.
Wang (2009)	Effects of Auricular Acupressure on Menstrual Symptoms and Nitric Oxide for Women with Primary Dysmenorrhea	The study does not have pain outcome measures.
Yaghobinejad (2017)	The effect of SP6 moxibustion and acupressure on the severity of systemic symptoms associated with dysmenorrhea	The full-text was published in Iranian.
Li (2020)	任脉长蛇灸治疗寒凝血瘀型原发性痛经的疗效观察	The control is treated with traditional acupuncture and moxibustion.
Chen (2013)	温针灸治疗寒湿凝滞型原发性痛经的临床研究	The study does not have pain outcome measures.
Du (2012)	经前针刺十七椎穴治疗原发性痛经的临床研究	The study does not have pain outcome measures.
Cong (2011)	针刺治疗原发性痛经止痛效果观察	The study does not have pain outcome measures.
Bi (2014)	Primary dysmenorrhea treated with staging acupoint catgut embedment therapy: a randomized controlled trial	The treatment is staging acupoint catgut embedment therapy.
Fu (2018)	Acupoint Application with Daiwenjiu Plaster for Primary Dysmenorrhea of Cold-Dampness Stagnation Syndrome	The treatment is acupoint application with Daiwenjiu plaster.
Leng (2016)	辅药隔姜灸治疗原发性痛经 24 例临床观察	The study does not have pain outcome measures.
Ye (2018)	温通散神阙穴敷贴治疗寒凝血瘀型原发性痛经的疗效及作用机制研究	The study does not have pain outcome.
Song (2015)	透穴埋线治疗原发性痛经的临床观察	The treatment is staging acupoint catgut embedment therapy
Zhang (2019)	腹部十字灸治疗原发性痛经（寒凝血瘀型）的临床研究	The treatment is the combination of Chinese herb and moxibustion.
Zhang (2019)	穴位埋线治疗原发性痛经（气滞血瘀型）的疗效观察	The treatment is staging acupoint catgut embedment therapy.
Li (2018)	Randomized Controlled Trail of Treating Primary Dysmenorrhea with Shaofu-Zhuyu decoction acupoint application	The treatment is Shaofu-Zhuyu decoction acupoint application.
Li (2017)	艾灸对原发性痛经症状及睡眠质量的影响	The control is usual care.
Du (2018)	Clinical Observation on Acupoint Application of Wenjing Sanhan Decoction on Primary Pysmenorrhea	The treatment is Wenjing Sanhan Decoction by acupoint application.
Wang (2014)	穴位埋线治疗寒凝血瘀型原发性痛经临床观察	The treatment is staging acupoint catgut embedment therapy.
Fan (2020)	穴位埋线周期疗法治疗原发性痛经的临床研究	The treatment is staging acupoint catgut embedment therapy.
Tan (2018)	基于“经络诊察”穴位埋线及点穴治疗原发性痛经的临床研究	The treatment is staging acupoint catgut embedment therapy.
Zheng (2021)	穴位埋线治疗原发性痛经的临床观察	The treatment is staging acupoint catgut embedment therapy.
Yan (2015)	穴位敷贴法治疗气滞血瘀型原发性痛经	The treatment is staging acupoint catgut embedment therapy.

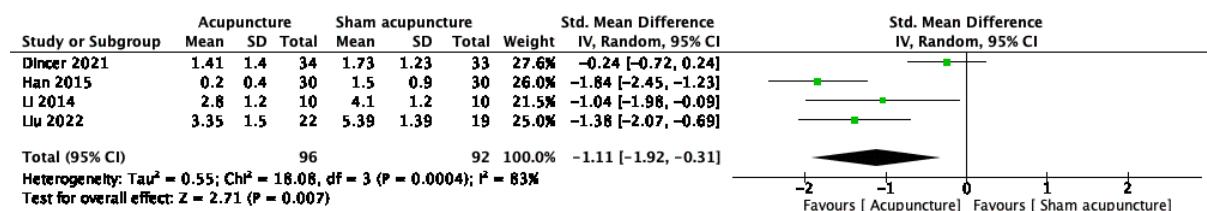
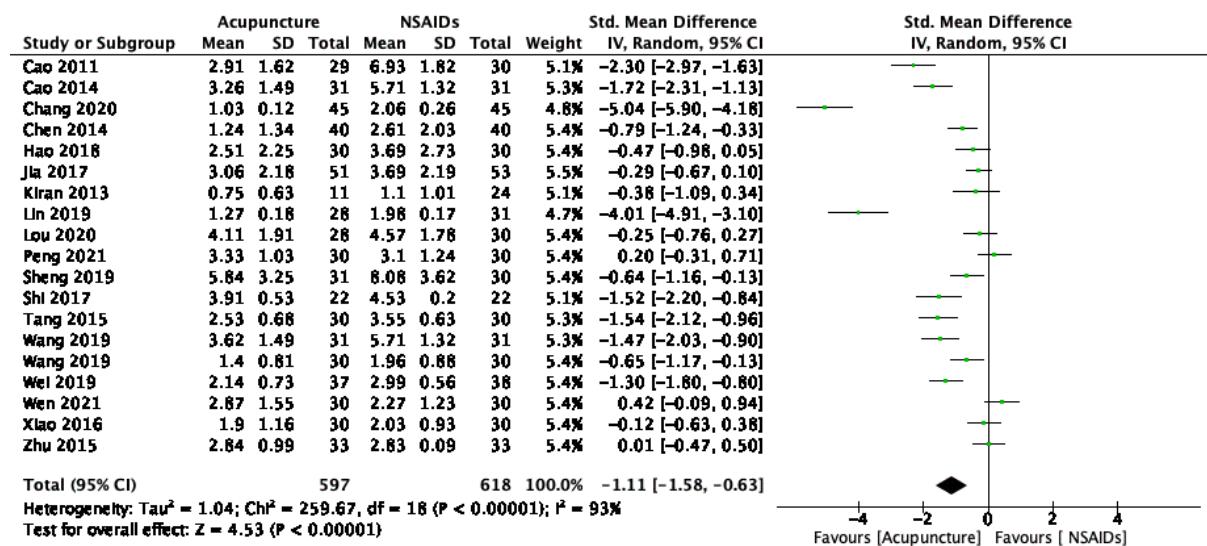
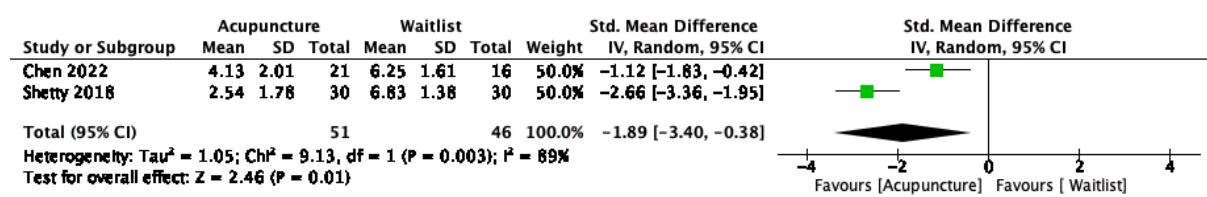
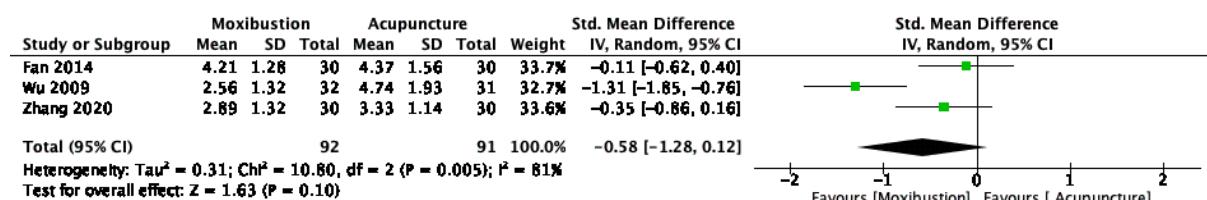
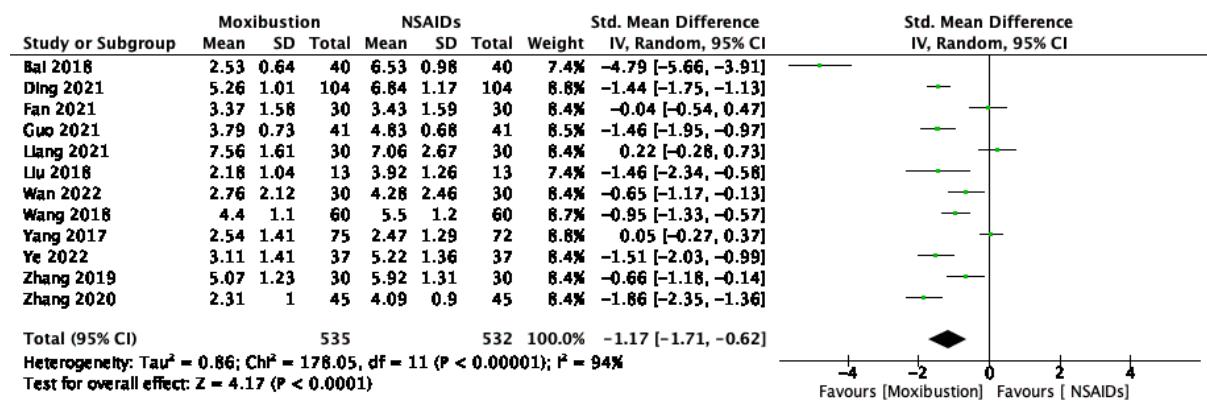
Appendix 3. Details of quantitative data for network meta-analysis

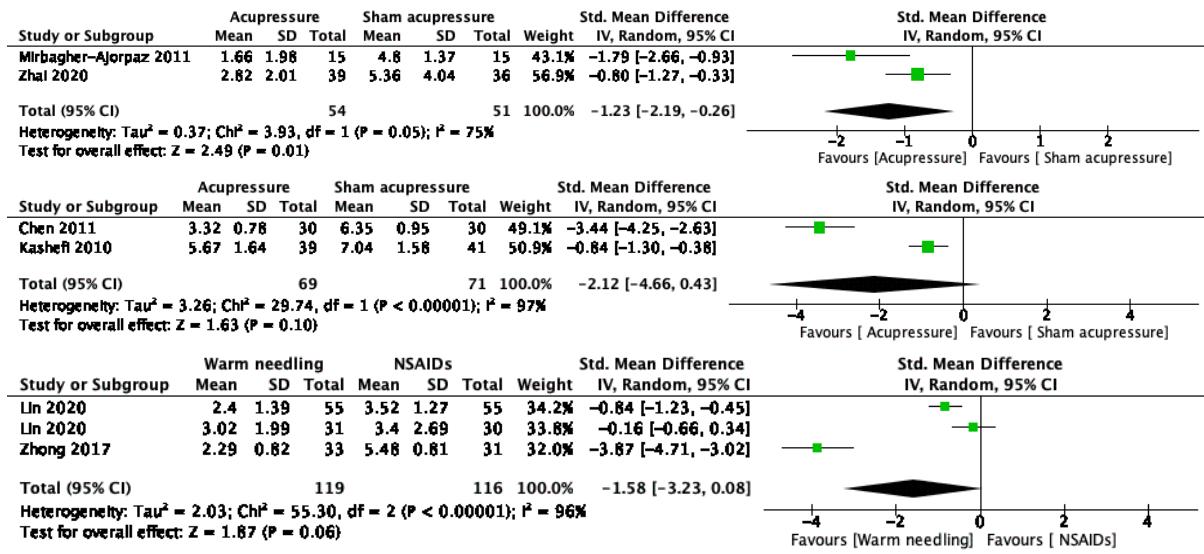
Code	The first author (year)	Outcomes	Intervention				Comparison			
			Name	N	Mean	SD	Name	N	Mean	
1	Chen (2015)	VAS	Acupressure	65	3.50	1.64	Health education	64	3.91	1.40
2	Dincer (2021)	VAS	Acupuncture	34	1.41	1.40	Sham acupuncture	33	1.73	1.23
3	Gao (2015)	VAS	Moxibustion	24	2.32	1.70	Sham moxibustion	20	3.755	2.30
4	Kashefi (2010)	VAS	Acupressure	39	5.67	1.64	Sham acupressure	41	7.04	1.58
5	Kiran (2013)	VAS	Acupuncture	11	0.75	0.63	NSAIDs	24	1.10	1.01
6	Liu (2022)	VAS	Acupuncture	22	3.35	1.50	Sham acupuncture	19	5.39	1.39
7	Mirbagher-Ajorpaz (2011)	VAS	Acupressure	15	1.66	1.98	Sham acupressure	15	4.80	1.37
8	Qorbanalipour (2018)	VAS	Electro-acupuncture	31	3.38	1.85	Acupressure	33	4.01	1.21
9	Shetty (2018)	VAS	Acupuncture	30	2.54	1.78	Waitlist	30	6.83	1.38
10	Sriprasert (2015)	NRS	Acupuncture	27	6.03	2.14	Oral contraceptive pill	25	4.04	2.91
11	Wang (2019)	VAS	Acupuncture	31	3.62	1.49	NSAIDs	31	5.71	1.32
12	Yang (2017)	VAS	Moxibustion	75	2.54	1.41	NSAIDs	72	2.47	1.29
13	Ding (2021)	VAS	Moxibustion	104	5.26	1.01	NSAIDs	104	6.84	1.17
14	Wan (2022)	VAS	Moxibustion	30	2.76	2.12	NSAIDs	30	4.28	2.46
15	Liu (2019)	VAS	Warm needling	32	4.33	4.04	Acupuncture	32	4.13	4.55
16	Liu (2018)	VAS	Moxibustion	13	2.18	1.04	NSAIDs	13	3.92	1.26
17	Ye (2022)	VAS	Moxibustion	37	3.11	1.41	NSAIDs	37	5.22	1.36
18	Wu (2009)	VAS	Moxibustion	32	2.56	1.32	Acupuncture	31	4.74	1.93
19	Tang (2012)	VAS	Tuina	30	2.11	1.12	NSAIDs	30	2.35	2.48
20	Chang (2020)	VAS	Acupuncture	45	1.03	0.12	NSAIDs	45	2.06	0.26
21	Zhang (2017)	VAS	Electro-acupuncture	35	1.70	2.28	NSAIDs	35	5.27	3.11
22	Zhang (2020)	VAS	Moxibustion	45	2.31	1.00	NSAIDs	45	4.09	0.90
23	Zhang (2019)	VAS	Moxibustion	30	5.07	1.23	NSAIDs	30	5.92	1.31
24	Zhang (2020)	VAS	Moxibustion	30	2.89	1.32	Acupuncture	30	3.33	1.14
25	Peng (2021)	VAS	Acupuncture	30	3.33	1.03	NSAIDs	30	3.10	1.24
26	Cao (2011)	VAS	Acupuncture	29	2.91	1.62	NSAIDs	30	6.93	1.82
27	Cao (2014)	VAS	Acupuncture	31	3.26	1.49	NSAIDs	31	5.71	1.32
28	Zhu (2020)	VAS	Tuina	27	4.96	1.00	Acupuncture	33	5.46	0.96
29	Zhu (2015)	VAS	Acupuncture	33	2.84	0.09	NSAIDs	33	2.83	0.09
30	Li (2014)	VAS	Acupuncture	10	2.80	1.20	Sham acupuncture	10	4.10	1.20
31	Li (2017)	VAS	Auricular therapy	35	3.00	1.60	NSAIDs	35	3.20	1.40
32	Lin (2019)	VAS	Acupuncture	28	1.27	0.18	NSAIDs	31	1.98	0.17
33	Lin (2020)	NRS	Warm needling	55	2.40	1.39	NSAIDs	55	3.52	1.27
34	Lin (2020)	VAS	Warm needling	31	3.02	1.99	NSAIDs	30	3.40	2.69
35	Liang (2021)	VAS	Moxibustion	30	7.56	1.61	NSAIDs	30	7.06	2.67
36	Fan (2014)	VAS	Moxibustion	30	4.21	1.28	Acupuncture	30	4.37	1.56
37	Tang (2015)	VAS	Acupuncture	30	2.53	0.68	NSAIDs	30	3.55	0.63
38	Wen (2021)	VAS	Acupuncture	30	2.87	1.55	NSAIDs	30	2.27	1.23

39	Wang (2019)	VAS	Acupuncture	30	1.40	0.81	NSAIDs	30	1.96	0.88
40	Wang (2018)	VAS	Moxibustion	60	4.40	1.10	NSAIDs	60	5.50	1.20
41	Bai (2018)	VAS	Moxibustion	40	2.53	0.64	NSAIDs	40	6.53	0.98
42	Sheng (2019)	VAS	Acupuncture	31	5.84	3.25	NSAIDs	30	8.08	3.62
43	Shi (2022)	NRS	Scraping therapy	30	1.97	1.75	NSAIDs	30	3.40	2.19
44	Shi (2017)	VAS	Acupuncture	22	3.91	0.53	NSAIDs	22	4.53	0.20
45	Lou (2020)	VAS	Acupressure	28	4.11	1.91	NSAIDs	30	4.57	1.78
46	Zhai (2020)	VAS	Acupressure	39	2.82	2.01	Sham acupressure	36	5.36	4.04
47	Xiao (2016)	VAS	Acupuncture	30	1.90	1.16	NSAIDs	30	2.03	0.93
48	Fan (2021)	VAS	Moxibustion	30	3.37	1.58	NSAIDs	30	3.43	1.59
49	Jia (2017)	VAS	Acupuncture	51	3.06	2.18	NSAIDs	53	3.69	2.19
50	Hao (2018)	VAS	Acupuncture	30	2.51	2.25	NSAIDs	30	3.69	2.73
51	Guo (2021)	VAS	Moxibustion	41	3.79	0.73	NSAIDs	41	4.83	0.68
52	Zhong (2017)	VAS	Warm needling	33	2.29	0.82	NSAIDs	31	5.48	0.81
53	Chen (2011)	VAS	Acupressure	30	3.32	0.78	NSAIDs	30	6.35	0.95
54	Chen (2014)	VAS	Acupuncture	40	1.24	1.34	NSAIDs	40	2.61	2.03
55	Chen (2022)	VAS	Acupuncture	21	4.13	2.01	Waitlist	16	6.25	1.61
56	Han (2015)	VAS	Acupuncture	30	0.20	0.4	Sham acupuncture	30	1.50	0.90
57	Wei (2019)	VAS	Acupuncture	37	2.14	0.73	NSAIDs	38	2.99	0.56

Abbreviations: VAS: VisualAnalogue Scale; NRS: Numerical Rating Scale; NSAIDs: Non-steroidal anti-inflammatory drugs.

Appendix 4. Pairwise comparison for meta-analysis

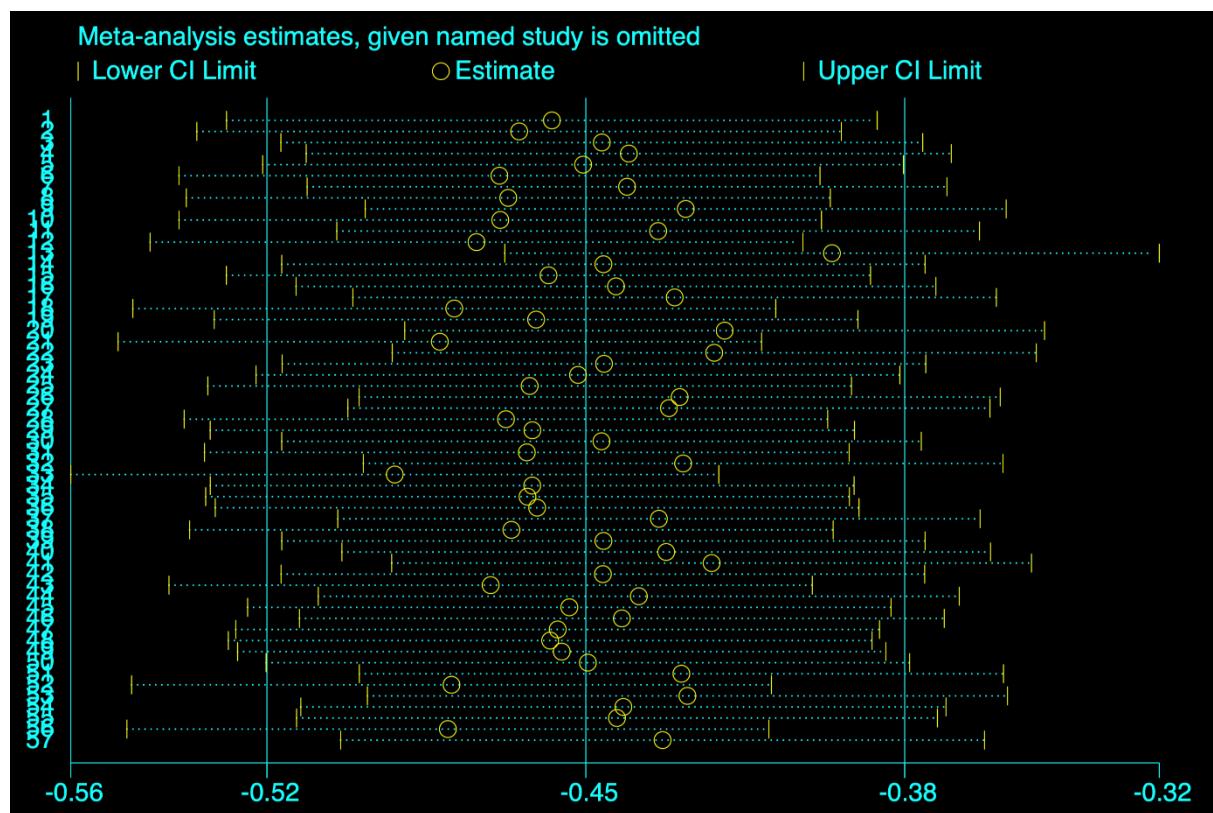




Appendix 5. The results of local inconsistency test

Side	Direct		Indirect		Difference		tau
	Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.	
Acupressure-Health education
Acupressure- NSAIDs	1.794	0.912	1.052	1.173	0.742	1.485	0.617 1.242
Acupressure- Electro-acupuncture	-0.401	1.270	0.339	1.496	-0.740	1.963	0.706 1.245
Acupressure- Sham acupressure	1.127	0.741	1.566	1.589	-0.438	1.754	0.803 1.245
Sham acupuncture-Acupuncture *	-1.144	0.732	1.995	365.238	-3.139	365.239	0.993 1.230
Acupuncture- Moxibustion	-0.705	0.896	0.029	0.453	-0.735	1.004	0.464 1.238
Acupuncture- NSAIDs	1.161	0.301	0.723	0.676	0.437	0.740	0.554 1.241
Acupuncture- Waitlist *	1.888	0.906	1.039	447.759	0.849	447.760	0.998 1.230
Acupuncture-Oral contraceptive pill *	-0.771	1.263	-1.621	632.806	0.850	632.807	0.999 1.230
Acupuncture-Tuina	-0.504	1.263	1.001	1.292	-1.505	1.808	0.405 1.236
Acupuncture-Warm needling	0.045	1.270	-0.491	0.792	0.537	1.496	0.720 1.245
Acupuncture-Sham acupressure	1.034	1.336	0.595	1.136	0.438	1.754	0.803 1.245
Moxibustion-NSAIDs	1.119	0.352	1.854	0.940	-0.735	1.004	0.464 1.238
Moxibustion-Sham moxibustion *	0.706	1.269	0.096	632.048	0.609	632.049	0.999 1.230
NSAIDs-Electro-acupuncture	-1.294	1.272	-2.034	1.494	0.740	1.963	0.706 1.245
NSAIDs-Tuina	-0.122	1.262	-1.628	1.293	1.505	1.808	0.405 1.236
NSAIDs-Auricular therapy *	-0.131	1.253	-3.169	632.423	3.037	632.424	0.996 1.230
NSAIDs-Warm needling	-1.561	0.740	-1.024	1.300	-0.537	1.496	0.720 1.245
NSAIDs-Scraping therapy *	-0.711	1.259	-3.740	632.939	3.029	632.940	0.996 1.230

Appendix 6. Sensitivity analysis



Appendix 7. Adverse event of the interventions

No.	Author (yr)	Intervention	Adverse events	Comparison	Adverse events
1	Kashefi (2010)	Acupressure	NR	Sham acupressure	Dropout due to adverse event (n=2)
2	Kiran (2013)	Acupuncture	NR	NSAIDs	Pain-killer effect of medication faded away with repetitive use in some cases
3	Sriprasert (2015)	Acupuncture	Minor bleeding at acupuncture points (n=15), headache or myalgia (n=4), fever (n=1)	NSAIDs	Abnormal vaginal bleeding (n=9), headache or myalgia (n=5), weight gain (n=3), nausea or vomiting (n=2), breast engorgement (=2)
4	Wang (2019)	Acupuncture	Hematoma occurred during or after treatment (n=7)	NSAIDs	Gastrointestinal irritation, such as nausea, anorexia, heartburn, bloating (n=17)
5	Chang (2020)	Acupuncture	Nausea (n=1)	NSAIDs	Nausea (n=1), dyspepsia (n=1), heartburn (n=2), anorexia (n=3)
6	Zhang (2020)	Moxibustion	NR	NSAIDs	Hypermenorrhea (n=2), stomach upset (n=2)
7	Peng (2021)	Acupuncture	Hematoma (n=1)	NSAIDs	Gastrointestinal irritation (n=2)
8	Cao (2011)	Acupuncture	NR	NSAIDs	Rash (n=1), loss of appetite (n=2)
9	Cao (2014)	Acupuncture	Hematoma (n=7)	NSAIDs	Gastrointestinal symptom: nausea, anorexia, heartburn, bloating (n=17)
10	Lin (2019)	Acupuncture	Minor bleeding at acupuncture points (n=2)	Oral contraceptive pill	NR
11	Lin (2020)	Warm needling	Minor bleeding at acupuncture points (n=4)	NSAIDs	NR
12	Wang (2019)	Acupuncture	NR	NSAIDs	Gastrointestinal symptom: nausea, mild indigestion and a burning stomach (n=3)
13	Sheng (2019)	Acupuncture	Minor bleeding at acupuncture points (n=1), sticking of needle (n=3)	NSAIDs	Gastrointestinal symptom: nausea, stomach burning sensation, mild indigestion (n=2), dizziness and tinnitus (n=1)
14	Shi (2022)	Scraping therapy	NR	NSAIDs	Mild gastrointestinal reaction (n=2)
15	Lou (2020)	Acupressure	Nervousness in the first treatment session	NSAIDs	NR
16	Zhai (2020)	Acupressure	NR	Sham acupressure	Dropout due to severe pain (n=3)
17	Xiao (2016)	Acupuncture	Minor bleeding at acupuncture points	NSAIDs	Gastrointestinal symptom: nausea and vomiting (n=15), dizziness (n=3)
18	Jia (2017)	Acupuncture	NR	NSAIDs	Gastrointestinal reaction (n=1)
19	Wei (2019)	Acupuncture	NR	Western medicine	Gastrointestinal symptom: dyspepsia (n=1), dizziness (n=1)

Appendix 8. Summary of Findings (SoF) table based on GRADEpro evaluation

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	No of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with control	Risk with intervention				
Acupressure compared to health education on primary dysmenorrhea pain						
Pain	-	SMD 0.27 SD lower (0.62 lower to 0.08 higher)	-	129 (1 RCT)	⊕⊕○○ Low	①②
Acupuncture compared to placebo on primary dysmenorrhea pain						
Pain	-	SMD 1.41 SD lower (2.1 lower to 0.72 lower)	-	121 (3 RCTs)	⊕⊕⊕⊕ High	①
Moxibustion compared to placebo on primary dysmenorrhea pain						
Pain	-	SMD 0.72 SD lower (1.33 lower to 0.11 lower)	-	44 (1 RCT)	⊕⊕○○ Low	①②③
Acupressure compared to placebo on primary dysmenorrhea pain						
Pain	-	SMD 0.83 SD lower (1.33 lower to 0.34 lower)	-	252 (4 RCTs)	⊕⊕⊕○ Moderate	①③
Acupuncture compared to western medicine on primary dysmenorrhea pain						
Pain	-	SMD 0.38 SD lower (1.1 lower to 0.34 higher)	-	1209 (19 RCTs)	⊕⊕○○ Low	③④
Electroacupuncture compared to acupressure on primary dysmenorrhea pain						
Pain	-	SMD 0.41 SD lower (0.9 lower to 0.09 higher)	-	64 (1 RCT)	⊕⊕○○ Low	①②
Electroacupuncture compared to western medicine on primary dysmenorrhea pain						
Pain	-	SMD 1.31 SD lower (1.83 lower to 0.79 lower)	-	70 (1 RCT)	⊕⊕⊕⊕ High	①
Acupuncture compared to waitlist on primary dysmenorrhea pain						
Pain	-	SMD 2.69 SD lower (3.4 lower to 1.99 lower)	-	97 (2 RCTs)	⊕⊕○○ Low	①②③④
Moxibustion compared to NSAIDs on primary dysmenorrhea pain						
Pain	-	SMD 0.05 SD higher (0.27 lower to 0.38 higher)	-	1067 (12 RCTs)	⊕⊕⊕○ Moderate	③
Moxibustion compared to acupuncture on primary dysmenorrhea pain						
Pain	-	SMD 1.32 SD lower (1.87 lower to 0.78 lower)	-	183 (3 RCTs)	⊕⊕⊕○ Moderate	①②③
Tunia compared to NSAIDs on primary dysmenorrhea pain						
Pain	-	SMD 0.12 SD lower (0.63 lower to 0.38 higher)	-	60 (1 RCT)	⊕⊕○○ Low	①②
Tunia compared to acupuncture on primary dysmenorrhea pain						
Pain	-	SMD 0.51 SD lower (1.03 lower to 0.01 higher)	-	60 (1 RCT)	⊕⊕⊕○ Moderate	①②
Auricular therapy compared to NSAIDs on primary dysmenorrhea pain						
Pain	-	SMD 0.13 SD lower (0.6 lower to 0.34 higher)	-	70 (1 RCT)	⊕○○○ Very low	①②④
Warm needling compared to acupuncture on primary dysmenorrhea pain						
Pain	-	SMD 0.05 SD higher (0.44 lower to 0.54 higher)	-	64 (1 RCT)	⊕⊕⊕○ Moderate	①②
Warm needling compared to NSAIDs on primary dysmenorrhea pain						
Pain	-	SMD 0.84 SD lower (1.23 lower to 0.45 lower)	-	235 (3 RCTs)	⊕○○○ Very low	①②③
Scraping therapy compared to NSAIDs on primary dysmenorrhea pain						
Pain	-	SMD 0.72 SD lower (1.24 lower to 0.2 lower)	-	60 (1 RCT)	⊕⊕⊕○ Moderate	①②

Appendix 8. Summary of Findings (SoF) table based on GRADEpro evaluation

Appendix 9. Funnel plot and egger test

