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# 23 GUIDELINES

American Specialty Health – Specialty (ASH) considers the use of acupuncture for the treatment of abdominal/pelvic pain (e.g., bladder pain syndrome, dysmenorrhea; pain related to gastrointestinal disorders, including irritable bowel syndrome (IBS), gastroesophageal reflux disease (GERD), inflammatory bowel disease (IBD); functional dyspepsia) as reasonable and appropriate when:

- Other evidence-based interventions have been deemed unsuccessful or contraindicated;
  - The acupuncture treatment is in combination with, and complementary to, other treatment strategies; and
- There is medical oversight of the underlying condition for which the physician retains primary responsibility for patient management.
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The evidence supporting acupuncture treatment for pain associated with these abdominal/pelvic conditions is relatively low quality, ranging from promising to preliminary and insufficient to inconclusive. However, there is no strong evidence that 1 acupuncture is ineffective in treating the pain associated with these disorders; and the safety

2 profile of acupuncture is such that a trial of care could be considered reasonable when the

3 above criteria are met.

4

5 This guideline does not pertain to premenstrual syndrome (PMS) or premenstrual 6 dysphoric disorder (PMDD), menstrual irregularities, and/or fertility issues.

7

ICD-10 Code	ICD-10 Code Description
N94.4	Primary dysmenorrhea
N94.5	Secondary dysmenorrhea
N94.6	Dysmenorrhea, unspecified
R10.10	Upper abdominal pain, unspecified
R10.11	Right upper quadrant pain
R10.12	Left upper quadrant pain
R10.13	Epigastric pain
R10.2	Pelvic and perineal pain
R10.30	Lower abdominal pain, unspecified
R10.31	Right lower quadrant pain
R10.32	Left lower quadrant pain
R10.33	Periumbilical pain
R10.84	Generalized abdominal pain

# 8 Diagnosis Codes and Descriptions

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# 10 DESCRIPTION/BACKGROUND

Functional gastrointestinal and motility disorders are the most common gastrointestinal 11 (GI) disorders in the general population and include dyspepsia, irritable bowel syndrome 12 (IBS), functional heartburn, gastroesophageal reflux disease (GERD), and chronic 13 constipation. Symptoms are often chronic (> 3 months in a year), frequent (> 3 episodes 14 per week) and severe. Functional GI symptoms are multifactorial disorders: different 15 pathophysiological mechanisms are variably combined in different patients (Takahashi, 16 17 2006). Motor dysfunction of the GI tract and visceral hypersensitivity are considered to be important factors. Inflammatory bowel disease (IBD), a group of disorders in which the 18 colon or small intestine become inflamed (most likely as a result of an autoimmune reaction 19 of the body against its own intestinal tissue), includes Crohn's disease and ulcerative 20 colitis, affects over one million patients in the United States, and has been reported in all 21 continents (Huo et al., 2009). 22

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Chronic pelvic pain (CPP) is defined as noncyclic pain of more than 6 months that localizes 1 in the pelvis, the anterior abdominal wall at or below the umbilicus, the lumbosacral region 2 of the spine, or the buttocks. Severe CPP not only causes functional disability in patients, 3 but also reduces quality of life (Sung et al., 2018). The causes of CPP are complicated and 4 not entirely understood, but may include pelvic congestion, adhesions, musculoskeletal 5 nerve-related disorders, and psychosomatic factors. Interventions targeting these factors 6 have been used in the management of CPP. The majority of women who experience CPP 7 have musculoskeletal system dysfunction. These issues could include postural changes, as 8 well as changes in the pelvic muscles, such as spasm of the levator ani (Prendergast and 9 Weiss, 2003). Given the potential that psychosocial components may influence the 10 11 presence of CPP, psychological treatments may be helpful in addition to medical and/or surgical treatments. Williams et al. (2012, 2020) noted that psychological treatments can 12 help reduce frequency and severity of symptoms for chronic pain in general, including 13 CPP. Another potential disorder causing pelvic pain is chronic prostatitis/chronic pelvic 14 pain syndrome (CP/CPPS). This is a common disorder with symptoms of pelvic pain and 15 lower urinary tract symptoms. There are currently many approaches for its management, 16 using both pharmacological and non-pharmacological interventions (Franco et al., 2018). 17

18

Primary dysmenorrhea can also be considered pelvic pain and is defined as cramping pain 19 20 during menstruation without any identifiable pelvic pathology, and it affects most women throughout the menstrual years. This condition is very common and can impact daily 21 activities for many women who experience this pain. In the consensus guidelines of 22 primary dysmenorrhea, nonsteroidal anti-inflammatory drugs (NSAIDs) and oral 23 contraceptives (OCs) are recommended as first-line treatments. However, some patients 24 did not experience pain reduction with NSAIDs and did experience side effects such as 25 nausea, dyspepsia, headache, or drowsiness. In addition, OCs would not be suitable for 26 patients attempting to become pregnant, and might cause adverse effects such as nausea, 27 vomiting, weight gain, or vaginal bleeding (Woo et al., 2018). Endometriosis is a chronic, 28 estrogen-dependent, inflammatory disease that affects women of reproductive-age. It is 29 painful and may cause infertility. Current pain therapies often involve various 30 pharmacological and surgical treatments. Unfortunately, these treatments may not alleviate 31 the pain and may present side effects that are difficult to manage (Xu et al., 2017). Pelvic 32 33 pain can also occur during pregnancy. Almost 1/5 of pregnant women experience pelvic pain and symptoms will typically increase with advancing pregnancy. Low back pain can 34 also occur with pelvic pain. Symptoms can interfere with activities of daily living, sleep, 35 and work (Liddle and Pennick, 2015). 36

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Bladder pain syndrome/interstitial cystitis is another disorder described as pelvic pain, pressure or discomfort perceived to be related to the bladder, lasting for at least 6 months, and accompanied by at least one other urinary symptom. Urinary symptoms include the frequency or persistent urge to void without any identifiable causes. The International Urogynecological Association (IUGA) and the International Continence Society (ICS)

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produced a joint report on terminologies by Haylen et al. in 2010, defining bladder pain as a complaint of supra pubic or retro-pubic pressure, discomfort, or pain, associated with the bladder, generally aggravated by bladder filling. The symptom may also persist after

4 5

# 6 EVIDENCE REVIEW

voiding (Verghese et al., 2016).

#### 7 Irritable Bowel Syndrome (IBS) and Inflammatory Bowel Disease (IBD)

Lim and colleagues (Lim et al., 2006) wanted to determine whether acupuncture is more 8 effective than no treatment, more effective than 'sham' (placebo) acupuncture, and as 9 effective as other interventions used to treat irritable bowel syndrome. They conducted a 10 comprehensive search irrespective of language, date of publication, and publication status. 11 Two scales were used to assess the methodological quality of the studies (Jadad et al., 1996; 12 Linde et al., 1996A; Linde et al., 1996B; Linde et al., 1997), and very well-defined 13 inclusion / exclusion criteria were used. Out of 12 potentially eligible studies identified, 14 only 6 were included (Fireman et al., 2001; Forbes et al., 2005; Liao, 2000; Lowe et al., 15 2000; Liu, 1995; Liu, 1997); representing about 464 IBS patients (221 males; 244 females); 16 ages ranged between 16-79 years; while duration of IBS symptoms prior to enrollment 17 ranged from 3 months to 32 years. The studies used different IBS assessment criteria, 18 varied in treatment duration, and used heterogeneous acupuncture protocols. The authors 19 20 concluded that "given the poor quality of the studies, there is no evidence to support the use of acupuncture for treating IBS; therefore, neither positive nor negative 21 recommendations can be made based on this review." The authors suggested the need for 22 further studies and recommended that researchers follow CONSORT (Begg et al., 1996) 23 and STRICTA (MacPherson et al., 2001) guidelines to improve the quality of studies, that 24 they follow standard outcome measures, and continue to work on the development of 25 proper protocols for placebo acupuncture (Streitberger et al., 1998). The review by 26 Schneider and colleagues (2007) identified 18 relevant trials, but only 4 had robust RCT 27 design: two trials for IBS (Forbes et al., 2005; Schneider et al., 2005), one on Crohn's 28 disease (Joos et al., 2004), and one on ulcerative colitis (Joos et al., 2006). Additional IBS 29 trials (Rohrböck et al., 2004; Xiao et al., 2004; Fireman et al., 2001; Chan et al., 1997; 30 Kunze et al., 1990) and additional ulcerative colitis trials (Yang et al., 1999, Yue et al., 31 2005) were also included. The authors concluded there are only a few clinical trials of 32 33 acupuncture for gastrointestinal disorders (available in English), and that only 4 are well designed, strong RCTs. The trials of higher methodological quality looked at acupuncture 34 for IBS (Forbes et al., 2005; Schneider et al., 2005) and IBD (Joos et al., 2004; Joos et al., 35 2006). For both IBS and IBD conditions, health related quality of life (QoL) improved 36 remarkably after acupuncture. Altogether, in all trials where QoL or subjective symptoms 37 were assessed, QoL/subjective symptoms improved in both the acupuncture and the sham 38 39 acupuncture groups without significant group differences. However, for Crohn's disease and colitis, real acupuncture was significantly superior to sham acupuncture with regards 40 to disease activity. Subgroup analyses in both studies revealed that higher activity grades 41 and disease duration of less than 5 years seem to correlate with the efficacy of acupuncture 42

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therapy. The authors stated that "because most trials are hampered by major
methodological deficits, it is not possible to draw sure conclusions for (acupuncture) trials
of gastrointestinal conditions."

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The reviewers note that in IBS all interventions, acupuncture (standardized or 5 individualized), and sham acupuncture control (invasive vs. non-invasive), improvement 6 of OoL was achieved. They conclude that this effect is similar to effect sizes achieved with 7 psychotherapeutic interventions and antidepressants, and that it can be interpreted as 8 psychological effect, due in part to incidental effects of acupuncture. In contrast, the 9 authors conclude that the studies of acupuncture for IBD (Joos et al., 2004; Joos et al., 10 2006) point to some specific effects of acupuncture, and that "further trials would be 11 necessary to evaluate specific vs. nonspecific effects of acupuncture in the treatment of 12 gastrointestinal disorders." Three additional studies have been published on acupuncture 13 and IBS; two smaller preliminary studies (Reynolds et al., 2008; Anastasi et al., 2009) and 14 a large RCT (Lembo et al., 2009). Reynolds and colleagues (2008) conducted a pragmatic 15 RCT of 30 patients with IBS comparing 10 sessions of acupuncture as a package of care 16 (including moxibustion, and recommendations on diet, exercise, and relaxation) along with 17 usual general practitioner (GP) care vs. usual GP care alone. A statistically and clinically 18 significant difference was found between groups in favor of acupuncture (P=0.001). 19 20 Another small randomized, sham/placebo-controlled trial (n=29) recently published by Anastasi et al. (2009) assessed the effect of an individualized traditional Chinese medicine 21 (TCM) acupuncture and moxibustion (Acu/Moxa) treatment plan as compared to a minimal 22 acupuncture treatment plan at non-acupuncture points including sham moxa. After 4 weeks 23 of treatment, the Acu/Moxa intervention was significantly more effective in improving 24 symptoms. 25

26

Lembo et al. (2009) compared acupuncture vs. sham acupuncture in a trial 'nested' within 27 a larger study examining the impact of the patient – practitioner interaction in 230 IBS 28 patients. Although there was no statistically significant difference between acupuncture 29 and sham acupuncture on the primary IBS outcome measures, both groups improved 30 significantly compared with the waitlist control group. For several secondary outcome 31 measures, within each treatment condition (augmented or limited), none of the acupuncture 32 33 vs. sham acupuncture differences were statistically significant. Chao and Zhang (2014) performed a meta-analysis consisting of six studies of acupuncture treatment for irritable 34 bowel that met inclusion criteria. The meta-analysis overall showed a positive result, but 35 only one study was positive out of the six. This study was much larger in participant 36 numbers than the five smaller negative studies. Overall small sample sizes, differing 37 treatment modes and durations and assessments of improvement made the positive results 38 39 less reliable. The authors recommended further study before conclusions are drawn. Manheim et al. (2012) in a Cochrane Review performed a meta-analysis of 17 RCTs 40 including 1,806 patients. There was no evidence of improvement with acupuncture 41 treatment vs. sham acupuncture for IBS symptoms or quality of life. Acupuncture was 42

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percent of the patients in the acupuncture treatment group showed symptomatic
improvement compared with 34% improved in the no treatment group.

4

Chao and Zhang (2014) performed a meta-analysis that included 6 randomized, placebo-5 controlled qualified studies of acupuncture treatment of IBS. This meta-analysis suggested 6 that acupuncture is effective in controlling the symptoms of IBS including abdominal pain 7 and distention as well as abnormal frequency of defecation. Five of the six studies did not 8 show a positive effect. The overall effect was positive due to the large number of subjects 9 in the one positive trial. The authors commented that the results were not enough to 10 11 recommend acupuncture as a first line therapy and that further studies were needed. Park et al. (2013) performed a systematic review of moxibustion treatment of IBS. Twenty 12 studies were included. Moxibustion did show positive effects on IBS, but there were biases 13 and inconsistencies in the studies. Further study was indicated. MacPherson et al. (2012) 14 conducted a RCT with 233 patients with IBS comparing usual care alone and combined 15 with acupuncture treatments. Acupuncture provided a significant benefit over usual care 16 alone and the effect was continued over the 12-month follow-up period based on results 17 from the IBS Symptoms Severity Score. Ji et al. (2013) reported a meta-analysis including 18 10 trials showing that acupuncture alone or with moxibustion was superior to oral 19 20 sulfasalazine therapy for IBD. The study authors recommended that double blind RCTs with large sample sizes are needed to provide high quality evidence regarding the efficacy 21 of acupuncture and moxibustion for the treatment of IBD. Liu et al. (2016) reported the 22 results of a RCT using electro-acupuncture for chronic severe functional constipation in 23 over 1,075 patients. The authors noted that after 8 weeks of treatment, the primary outcome 24 (complete spontaneous bowel movements) was increased and persisted through to the 12-25 week follow-up. Lowe et al. (2017) completed a randomized placebo-controlled trial that 26 determined that sham acupuncture is as efficacious as true acupuncture for the treatment 27 of IBS. Patients received twice weekly true acupuncture for 4 weeks (n=43) or sham 28 acupuncture (n=36). Patients returned at 12 weeks for a follow-up review. The primary 29 endpoint of success was determined by whether patients met or exceeded their established 30 goal for percentage symptom improvement. Questionnaires were completed for symptom 31 severity scores, SF-36 and IBS-36 QOL tools, McGill pain score, and Pittsburg Sleep 32 33 Quality Index. A total of 53% in the true acupuncture group met their criteria for a successful treatment intervention, but this did not differ significantly from the sham group 34 (42%). IBS symptom scores similarly improved in both groups. Authors suggested that the 35 lack of differences in symptom outcomes between sham and true treatment acupuncture 36 suggests that acupuncture does not have a specific treatment effect in IBS. MacPherson et 37 al. (2017) extended a trial follow-up to evaluate the effects of acupuncture at 24 months 38 39 post-randomization. Authors concluded that there were no statistically significant differences between the acupuncture and usual care groups in IBS signs and symptoms at 40 24 months post-randomization, and the point estimate for the mean difference was 41

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months.

3

In a systematic review and meta-analysis by Guo et al. (2020), acupuncture was shown to be more effective than loperamide for managing defecation frequencies in patients with diarrhea-prominent IBS. Acupuncture also resulted in better scores on the IBS Quality of Life, and IBS Symptom Severity Scale, and reduced recurrence rates compared with the dicetel, tribebutine and bacillus licheniformis/deanxit treatment groups. There were more adverse events with acupuncture, but the events were all mild bleeding at needling sites.

10

In a randomized controlled study, Pei et al. (2020), compared acupuncture with polyethylene glycol and pinaverium bromide for the treatment of irritable bowel syndrome. The primary endpoint of total IBS-Symptom Severity Score showed significantly more improvement with the acupuncture treatment than with the medications after 6 weeks.

15

Ma et al. (2020) utilized functional MRI (fMRI) to look at brain functioning of patients with diarrhea-dominant IBS before and after acupuncture. Abnormal brain connections that were different between normal subjects and patients with IBS were improved after acupuncture. The improvement on fMRI correlated with clinical improvement and IBS symptom severity scores.

21

Dai et al. (2020) reviewed 40 RCTs with over 4,000 participants and noted that acupuncture 22 and cognitive behavioral therapy were more effective for treating IBS than 23 pharmaceuticals. Acupuncture was the most effective therapy for improving overall 24 clinical treatment efficacy and reducing adverse events. Wang et al. (2020) performed a 25 systematic review and meta-analysis of acupuncture treatment for ulcerative colitis. 26 Acupuncture was shown to be effective when compared to pharmaceutical management 27 and when combined with medications. There were no significant differences in the adverse 28 effects between medications and acupuncture. The authors recommended caution with any 29 conclusions because of the low number of trials available and the generally poor 30 methodological quality of the studies reviewed. 31

32

33 Wang et al. (2021) performed a systematic review and meta-analysis of 61 RCTs. Acupuncture treatments for functional gastrointestinal disorders were compared to 34 pharmacotherapy, placebo acupuncture, no treatment, and acupuncture as an adjunctive to 35 other therapies (Chinese herbal therapies or pharmacotherapy). Acupuncture improved 36 symptom severity in functional dyspepsia, irritable bowel syndrome and functional 37 constipation better than pharmacotherapy, placebo, or no treatment. Acupuncture used as 38 39 an adjunctive treatment was better than other therapies alone. Adverse events were lowest with acupuncture treatments than the other treatment modalities. 40

A systematic review (Amsallem et al., 2021) of non-pharmacological interventions for 1 irritable bowel included 5 studies of acupuncture. One study showed a significant 2 improvement in overall symptoms compared with standard medical treatment 3 (antidiarrheals, laxatives, antispasmodics) at 3- and 6-month follow-up evaluations, but not 4 at 12 months. Another study found better symptomatic improvement with acupuncture over 5 standard medical treatment (SMT) at 3-month follow-up. Two studies found no significant 6 differences in results between acupuncture treatments and sham acupuncture. One study 7 compared auriculotherapy and sham and demonstrated no difference between the two in 8 treating abdominal pain. Only mild, transient adverse events were noted with acupuncture 9 therapies. The author recommends further study of acupuncture with better quality RCTs 10 11 and well-defined control groups.

12

Ten RCTs with fMRI data for acupuncture in functional gastrointestinal disorders (functional dyspepsia, irritable bowel, and functional constipation) were reviewed by Wang et al. (2023). Acupuncture significantly improved symptoms of these functional disorders including pain, distension, stool frequency/character, and anxiety/depression symptoms. The hypothesized mechanism of acupuncture's effects was through regulation of functional connectivity and activity in areas of the brain that are involved with visceral sensation, pain, and emotions.

20

A meta-analysis and systematic review were performed by Wang et al. (2024) to evaluate 21 the use of acupuncture for irritable bowel syndrome-D and co-morbid anxiety/depression. 22 Sixteen randomized, controlled trials with 1,305 patients were divided into an experimental 23 and a control group who received oral medications. Outcome measures included scores 24 from the Hamilton Anxiety Rating Scale (HAMA), Hamilton Depression Rating Scale 25 (HAMD), self-rated anxiety (SAS), self-rated depression (SDS) irritable bowel syndrome 26 severity scoring system (IBS-SSS), overall response rate, and relapse rate. Studies used 27 acupuncture alone, acupuncture with moxibustion, or acupuncture with Chinese herbal 28 medicine. Acupuncture and acupuncture with herbs were more successful than oral 29 medications at improving the HAMD, SAS, SDS and HAMA scores as well as the relapse 30 rates. Acupuncture and combination therapy were more effective at reducing IBS-SSS 31 scores and improving overall response rate than oral medication alone. Acupuncture was 32 33 said to be safer than other treatments. Heterogeneity was considerable in some of the outcome measures and the authors advised taking this into consideration before making 34 treatment decisions and more, higher-quality studies in the future. 35

36

Zhou et al. (2025) performed a systematic review and meta-analysis of 14 RCTs and 2,038 participants to evaluate how acupuncture effects quality of life in patients with irritable bowel syndrome. Results demonstrated significant improvement in quality of life and symptom severity over conventional therapies, however acupuncture did not specifically reduce abdominal pain. Optimal length of the sessions was 30 minutes. Quality of the study 1 was rated as high. Adverse events included subcutaneous hematoma, abdominal pain, cold

- 2 limbs and nerve pain all of which were transient.
- 3

Hou et al. (2024) included 28 articles in a meta-analysis examining the benefits of various 4 combinations of acupuncture (ACU), moxibustion (MOX), electroacupuncture (EA), and 5 Chinese herbal therapies (CH) and pharmaceuticals (WM) compared with placebos for 6 treating irritable bowel syndrome-D with anxiety/depression. Outcome measures included 7 scores from the Hamilton Anxiety Rating Scale (HAMA), Hamilton Depression Rating 8 Scale (HAMD), self-rated anxiety (SAS), self-rated depression (SDS) irritable bowel 9 syndrome severity scoring system (IBS-SSS), overall effective rate, and recurrence rate. 10 The authors reported that, "...In terms of improving HAMA score, MOX was superior to 11 EA, combined therapies, CH, WM and placebo; In terms of improving HAMD score, MOX 12 was superior to ACU, EA, combined therapies, WM and placebo; In terms of improving 13 the SAS score, The combined therapies were superior to EA, CH and WM; In terms of 14 improving SDS scores, The combined therapies were superior to EA, CH and WM; In 15 terms of improving IBS-SSS score, The combined therapies were superior to WM; In terms 16 of reducing recurrence rates, CH was superior to combined therapies; In terms of 17 improving total effective rates, MOX was superior to EA, CH, WM and placebo..." 18

19

# 20 Gastroesophageal Reflux Disease (GERD)

A single randomized controlled trial (Dickman et al., 2007) examined acupuncture as an 21 adjunct to standard care for gastro-esophageal reflux. Two additional trials assessed 22 acupuncture for dyspepsia; one compared the use of classical acupuncture points to non-23 channel points in treating functional dyspepsia (Park et al., 2009); the other looked at 24 acupuncture for the treatment of dyspepsia during pregnancy (da Silva et al., 2009). 25 Dickman and colleagues (2007) randomized 30 patients with classic heartburn symptoms 26 (minimum 3 months and 2 episodes per week) who continued to be symptomatic on 27 standard-dose proton pump inhibitors to one of two groups, either adding acupuncture 28 along with a proton pump inhibitor or doubling the proton pump inhibitor dose over a 29 period of 4 weeks. Acupuncture augmentation was significantly more effective than 30 doubling the proton pump inhibitor dose in controlling gastroesophageal reflux disease-31 related symptoms in patients who failed standard-dose. Park et al. (2009) compared 2 32 33 weeks of needling acupoints versus needling non-channel points in 68 patients with functional dyspepsia (FD). Both treatments significantly improved symptoms of FD and 34 QoL compared to baseline, but there were no differences in the average between groups, 35 except for two specific symptoms: pressure in upper abdomen and cramps in upper 36 abdomen, where needling acupoints outperformed the control group. da Silva et al. (2009) 37 conducted a study of pregnant women (n=42) randomized to receive or not receive 38 39 additional acupuncture for the treatment of heartburn during pregnancy. Significant improvements in heartburn and other symptoms (eating and sleeping) were found in the 40 women receiving acupuncture. 41

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Zheng et al. (2013) performed a study of acupuncture which included 200 participants with 1 functional dyspepsia. One group of participants received sham acupuncture and the other 2 true acupuncture. Twenty sessions of acupuncture treatments were given over 4 weeks. 3 The primary outcome was absence of dyspepsia symptoms at 16 weeks. Secondary 4 outcomes were the short form Leid's Dyspepsia Questionnaire and the Nepean Dyspepsia 5 index. Both groups received education about lifestyle changes to improve functional 6 dyspepsia. Patients with functional dyspepsia responded to the true acupuncture treatments 7 (46%) and to the sham acupuncture (14%). In a 2014 Cochrane review of 7 studies, there 8 was no benefit of acupuncture treatments over medication for functional dyspepsia. 9 Acupuncture was as equally effective as or better than sham acupuncture. All evidence was 10 11 of low quality and did not allow for a definitive conclusion about acupuncture's safety or efficacy in treating functional dyspepsia. Zhu et al. (2017) explored the effectiveness of 12 acupuncture for the treatment of GERD. A total of 12 trials involving 1,235 patients were 13 included. Meta-analyses demonstrated that patients receiving acupuncture or 14 electroacupuncture combined with Western Medicine (WM) had superior global symptom 15 improvement compared with those receiving WM alone. The authors' meta-analysis 16 suggested that acupuncture is an effective and safe treatment for GERD. However, due to 17 the small sample size and poor methodological quality of the included trials, further studies 18 are required to validate conclusions. 19

20

Guo et al. (2020) completed a systematic search of the literature for randomized controlled trials about effectiveness of acupuncture and electroacupuncture for functional dyspepsia. Eight studies were included. Acupuncture and electroacupuncture showed positive effects on the regulation of gastric motility, accommodation, hormones, and central and autonomic functions. Dyspepsia and quality of life improved with the treatments. The authors recommended that further high-quality studies be completed for additional evidence.

27

Through a systematic review and meta-analysis, Mao et al. (2020) found that electroacupuncture was more effective at treating functional dyspepsia than sham electroacupuncture and had fewer side effects than medications.

31

32 Zhang et al. (2020) performed a network meta-analysis to evaluate which forms of 33 acupuncture (manual, acupoint application, moxibustion, acupoint catgut embedding, and 34 warm acupuncture) were most helpful in treating functional dyspepsia. All forms of 35 acupuncture were more effective at improving the symptoms of functional dyspepsia 36 compared with prokinetics and sham acupuncture. Manual and electroacupuncture were 37 the most effective for improving SF-36 scores. Moxibustion and manual acupuncture were 38 the best at improving scores on the Nepean Dyspepsia Life Quality Index.

39

40 A randomized clinical trial by Yang et al. (2020) used 4 weeks of treatment with 41 acupuncture vs. sham acupuncture to measure the overall treatment effect and elimination 42 rate of the 3 primary symptoms of post-prandial distress: postprandial fullness, upper

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abdominal bloating, and early satiety. The response rate at 4 weeks was 83% in the acupuncture group and 51.6% in the sham group. The elimination rate of the primary symptoms was 27.8% for acupuncture and 17.3% in the sham group. The efficacy of acupuncture was still present at 16-week follow-up.

5

6 Sun et al. (2021) studied the effect of acupuncture with and without deqi on the symptoms 7 of functional dyspepsia and on fMRIs of the amygdala. Acupuncture with deqi showed a 8 significantly greater difference in Nepean Dyspepsia Symptom Index when compared to 9 acupuncture with deqi. The changes in the symptoms were consistent with alterations in 10 fMRI results in the right centro-medial amygdala and left medial prefrontal cortex. The 11 authors suggest that the effects on these brain areas may be the way that deqi influences 12 the brain and symptoms of functional dyspepsia.

13

# 14 Pregnancy-related Pelvic Pain

Liddle and Pennick (2015) updated the evidence assessing the effects of any intervention 15 used to prevent and treat low back, pelvic pain, or both during pregnancy. Thirty-four RCTs 16 examined 5,121 pregnant women, aged 16 to 45 years and, when reported, from 12 to 38 17 weeks' gestation. Fifteen RCTs examined women with low-back pain (participants = 18 1,847); 6 examined pelvic pain (participants = 889); and 13 examined women with both 19 20 low-back and pelvic pain (participants = 2,385). All interventions were added to usual prenatal care and, unless noted, were compared with usual prenatal care. For pelvic pain, 21 results from a meta-analysis provided low-quality evidence of no significant difference in 22 the number of women reporting pelvic pain between group exercise, added to information 23 about managing pain, and usual prenatal care. For low-back and pelvic pain, results from 24 meta-analyses provided moderate-quality evidence that: an eight- to 12-week exercise 25 program reduced the number of women who reported low-back and pelvic pain; land-based 26 exercise, in a variety of formats, significantly reduced low-back and pelvic pain-related 27 sick leave. The results from a number of individual studies, incorporating various other 28 interventions, could not be pooled due to clinical heterogeneity. There was moderate-29 quality evidence from individual studies suggesting acupuncture or craniosacral therapy 30 improved pelvic pain more than usual prenatal care. Evidence from individual studies was 31 largely of low quality, and suggested that pain and functional disability, but not sick leave, 32 33 were significantly reduced following a multi-modal intervention (manual therapy, exercise, and education) for low-back and pelvic pain. When reported, adverse effects were minor 34 and transient. Authors concluded there is low-quality evidence that exercise (any exercise 35 on land or in water) may reduce pregnancy-related low-back pain and moderate- to low-36 37 quality evidence suggesting that any exercise improves functional disability and reduces sick leave more than usual prenatal care. 38

- 39
- Vas et al. (2019) conducted a randomized trial of auricular acupuncture or non-specific ear
   needling or placebo acupuncture vs. only standard obstetrical care for 220 pregnant patients
   with pregnancy-related lower back pain and/or posterior pelvic girdle pain. Two sessions

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1 were given over 2 weeks. The primary outcome was pain intensity from 0-100 and the true

2 acupuncture effect on this pain level was significantly greater than the other groups. The 2 Boland Morris Disability Questionnaire and SE 12 secrets showed significantly more

- 3 Roland-Morris Disability Questionnaire and SF-12 scores showed significantly more
- 4 improvement in the true acupuncture group.
- 5 6

# Chronic Prostatitis/Chronic Pelvic Pain (CP/CPPS)

Franco et al. (2018) assessed the effects of non-pharmacological therapies for CP/CPPS. 7 Thirty-eight studies with 3,290 men with CP/CPPS. Based on short-term follow-up, 8 acupuncture typically led to clinically meaningful reductions in prostatitis symptoms when 9 compared with sham. It also resulted in little to no difference in adverse events. 10 11 Acupuncture did not consistently reduce sexual dysfunction when compared to sham. There was no information available for quality of life, depression, or anxiety. Qin et al. 12 (2016) assessed the comparative efficacy and safety of acupuncture, alpha-blockers, and 13 antibiotics for CP/CPPS. Twelve trials involving 1,203 participants were included. Based 14 on decreases in the National Institutes of Health Chronic Prostatitis Symptom Index (NIH-15 CPSI) score, a network meta-analysis indicated that electro-acupuncture, acupuncture, 16 alpha-blockers, antibiotics, and dual therapy were superior to placebo in decreasing this 17 score. Additionally, electro-acupuncture and dual therapy were more effective than alpha-18 blockers in decreasing the NIH-CPSI total score. Other network meta-analyses did not 19 20 show significant differences between interventions and placebo. The incidence of adverse events of acupuncture was relatively rare (5.4%) compared with placebo (17.1%), alpha-21 blockers (24.9%), antibiotics (31%) and dual therapy (48.6%). Overall, rank tests and 22 safety analyses indicated that electro-acupuncture/acupuncture may be recommended for 23 the treatment of CP/CPPS. 24

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A review of randomized controlled trials by Li et al. (2020) included 11 studies and 748 26 patients. Acupuncture was found to lower overall National Institutes of Health-Chronic 27 Prostatitis Symptom Index (NIH-CPSI) scores better than sham acupuncture or medication. 28 There was no difference between true acupuncture and medication on the voiding subscore 29 of the NIH-CPSI. There was no significant difference between acupuncture and sham 30 acupuncture on the International Prostate Symptom Scores (IPSS). Acupuncture and 31 medication together improved NIH-CPSI total score and pain domain subscores compared 32 33 to medication alone. The authors reported significant heterogeneity and bias risk in the studies disallowing definitive conclusions. 34

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36 Zhang et al. (2021) completed a meta-analysis evaluating acupuncture for chronic 37 prostatitis pain including the typical points and number of treatments used. True 38 acupuncture when compared with sham acupuncture was the most effective in improving 39 pain, urinary symptoms, and quality of life scores in the NIH-CPSI. Acupuncture was also 40 better at pain relief without associated adverse effects when compared with medications. 41 Combining acupuncture and medication produced a better reduction in the NIH-CPSI than 42 either treatment modality alone. The number of acupuncture sessions in the reviewed

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studies ranged from 6 to 28. The more acupuncture treatments, the better the NIH-CPSI score. The authors concluded that 4 acupuncture treatments were the minimum recommended for basic efficacy especially if symptoms were more acute. Higher numbers of treatments resulted in improvement in urinary symptoms and quality of life. In Chinese Medicine theory, acupuncture points are chosen based on the individual's evaluation. The trials mostly based their point selection on combinations of three points from CV3, CV4, BL32, SP 6 and SP 9.

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In a meta-analysis, Kang et al. (2021) compared efficacy and safety of acupuncture vs. 9 extracorporeal shockwave therapy (ESWT) for chronic prostatitis/chronic pelvic pain. 10 Nine RCTs with 525 patients were reviewed. Outcomes included the NIH-CPSI total and 11 sub scores for pain and urinary symptoms, IPSS score, and IIEF (International Index of 12 Erectile Function). ESWT and acupuncture were each more effective than sham 13 procedures. ESWT was more effective than acupuncture in the short term of less than 4 14 weeks and mid-term of 8-12 weeks. ESWT and acupuncture had similar efficacy long-term 15 after 24 weeks. 16

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A randomized controlled study by Sun et al. (2021) included 440 men with moderate to severe chronic prostatitis evenly divided into an acupuncture treatment group and a sham acupuncture group. The course of treatment or sham included 20 visits over 8 weeks. The true acupuncture participants consistently achieved clinically significant reductions in scores on the National Institutes of Health Chronic Prostatitis Symptom Index at 8 and 32 weeks over the sham group. No serious adverse events were reported.

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In a systematic review and meta-analysis of 10 RCTs involving 798 patients, Pan et al. 25 (2023) demonstrated that acupuncture was superior in relieving chronic prostatitis/chronic 26 pelvic pain syndrome pain when compared with sham acupuncture and Western medical 27 care. The authors specifically excluded poor quality studies that were included in prior 28 meta-analyses, such as studies that were not randomized, had no data for extraction, or 29 were otherwise of low quality and required the JADAD score to be equal to or greater than 30 4. Outcome measures included NIH-CPSI score, quality of life, urinary symptoms, and 31 efficacy rate. Four trials listed mild hematomas and pain in the acupuncture and sham 32 33 acupuncture groups. The Western Medicine treatment group reported nausea, abdominal pain, dizziness, and hypotension. 34

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Wang et al. (2023) performed a systematic review on acupuncture and chronic prostatitis/chronic pelvic pain syndrome including 11 studies with 570 participants. The most common areas of acupuncture points were the low back and lower extremities; most common meridians were urinary bladder, ren, and spleen. SP 6 was the most commonly used point followed by UB33, 35, and 23. Acupuncture frequency varied from 1-3 times a week. Length of treatment course was 6 weeks in most studies with a range of 2-10 weeks.

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1 Each acupuncture session lasted from 10-30 minutes. All the studies reviewed showed 2 some degree of improvement in pain sub-scores on the NIH-CPSI scale.

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Zhang et al. (2023) compared various combinations of acupuncture techniques (e.g., 4 acupuncture needling, moxibustion, catgut embedding, auricular) with alpha-receptor 5 blocking medications for treating chronic prostatitis/chronic pelvic pain. Nineteen studies 6 with 1,739 participants were included. For the total effectiveness rating, the combination 7 of alpha-receptor blockers and acupuncture needling was superior to other combinations. 8 For the NIH-CPSI total score, the alpha-receptor blocker, moxibustion and auricular 9 acupuncture was optimal with medication and needling coming in second. For the pain 10 11 subgroup on the scale, medications and moxibustion was the best combination. There was no statistically significant difference between the treatment combinations for the voiding 12 and quality of life sub-scores. 13

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Fang et al. (2020) produced a meta-analysis of twenty studies and 1,661 participants 15 looking at acupuncture and moxibustion in chronic prostatitis treatment. The National 16 Institutes of Health Chronic Prostatitis Symptom Indes (NIH-CPSI) was used before and 17 after treatment to measure progress. The control groups used in the studies were sham 18 acupuncture and medications. The authors noted that the acupuncture points selected for 19 20 the studies did vary but had some common points mostly on the lower back and lower extremities. Frequency of acupuncture varied from 3-4 times a week for 4 weeks to daily 21 treatments for a 12-day course. There were significant differences in results between the 22 acupuncture with moxa group and control groups including higher overall response rates 23 and better NIH-CPSI scores. 24

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# 26 Endometriosis-related Pain

Xu et al. (2017) studied the effects of acupuncture for the treatment of endometriosis-27 related pain in a systematic review and meta-analysis. Authors noted that the pain 28 alleviating effects of acupuncture have been attributed to various physiological and 29 psychological processes, such as activation of endogenous descending pain inhibitory 30 systems, deactivation of brain areas that transmit pain-related signals, interaction between 31 nociceptive impulses and somato-visceral reflexes, and the expectation of symptom relief. 32 33 Another finding noted in the manuscript reported that women with more advanced degrees of endometriosis showed higher CA-125 levels in both serum and peritoneal fluid. and 34 many studies have reported that acupuncture can reduce the level of serum CA-125, 35 relieving the pelvic cavity pain that is associated with endometriosis. Thus, acupuncture 36 37 may serve as a complement or alternative to other treatments. For purposes of this systematic review, patients were classified in one of four groups: (1) cured – the symptoms 38 39 of dysmenorrhea, abdominal discomfort, abdominal pain, periodic rectal irritation, etc., as well as the pelvic mass, had disappeared; (2) markedly effective - abdominal pain was 40 obviously relieved, other symptoms had improved, and the pelvic mass had narrowed by 41 more than 50%; (3) effective - abdominal pain was relieved, other symptoms had 42

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improved, the pelvic mass had narrowed more than 33%, and dysmenorrhea had not 1 increased in severity three menstrual cycles after treatment; (4) failed – abdominal pain 2 and other symptoms had not changed. In the current study, they systematically reviewed 3 the results of 10 RCTs comparing the outcomes of acupuncture with those of other 4 therapies (sham acupuncture, Western medicine, or Traditional Chinese Medicine) in the 5 treatment of endometriosis-related pain. Among the 10 RCTs included, 6 reported 6 variations in main pain level, 4 reported variations in peripheral blood CA-125 levels, and 7 7 reported the clinical effective rate of acupuncture as a treatment for endometriosis-related 8 pain. In all 10 of the studies, the interventions were acupuncture, and the control 9 interventions were placebo, Western medicine, or Traditional Chinese Medicine. Because 10 11 so few studies were included, they did not carry out a subgroup analysis. Authors concluded that acupuncture consistently yields better reductions in pain and serum CA-125 12 levels than do control treatments, regardless of the control intervention used. Given the 13 findings, authors concluded that the effect of acupuncture in the treatment of 14 endometriosis-related pain is likely mediated by endocrine and cytokine changes, as well 15 as by anti-inflammatory and analgesic effects. As a result, the therapy could be applied as 16 a complementary treatment for endometriosis-related pain. However, to confirm these 17 findings, additional studies with proper controls, blinding methods, and adequate sample 18 sizes are needed. 19

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Giese et al. (2023) included 6 studies (331 participants) in their systematic review and meta-analysis of acupuncture for endometriosis pain. Acupuncture was compared with non-specific acupuncture or usual care (contraceptives/analgesics). They determined there was low certainty evidence for acupuncture over non-specific acupuncture for benefit in pelvic pain overall and non-specific pelvic pain; Moderate evidence for dysmenorrhea. Compared with usual care, there was very low certainty evidence for relief of dysmenorrhea.

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Chen et al. (2024) completed a systematic review and meta-analysis with 14 studies and 29 793 participants with endometriosis. Three hundred and fifty-nine participants were in the 30 control groups that included placebo, Chinese herbology, and Western Medical treatments. 31 Compared to the control group, acupuncture, warm acupuncture, and auricular acupuncture 32 33 were superior in reducing the pain severity associated with endometriosis. Also noted were reduced serum CA-125 levels and decreased endometriosis nodule size. The authors 34 recommended caution when interpreting results due to issues with the studies such as risks 35 of biases/inadequate blinding processes, heterogeneity of treatments and controls, small 36 37 sample sizes, subjectivity in outcome assessment scores, and lack of long-term follow-up. 38

Li et al. (2024) reviewed thirty-three studies or non-pharmacological treatments for primary dysmenorrhea. Acupuncture/acupressure were the interventions in 10 of the studies with a total of 601 participants. Authors reported that exercise and acupuncture are

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considered the most potentially effective non-pharmacologic treatments in the short term
 and recommended research with improved quality.

3

Liu et al. (2024) studied 60 patients randomly assigned to three groups. Each group included acupuncture and a different number of cones of moxa – either 3, 6, or 9 cones. Three treatments were given each cycle starting a week before the onset of menses and repeated for three cycles. VAS scores and uterine artery blood flow parameters were used to measure outcomes. Higher numbers of moxa cones were shown to improve uterine artery blood flow parameters and pain levels compared with lower numbers of moxa cones.

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11 Li et al. (2024) completed a network meta-analysis of randomized controlled trials of acupuncture therapies and endometriosis pain. Forty-two trials with 3,635 participants 12 were studied with outcome measures such as pain scores, serum CA125 levels, and 13 response rates to attempt to distinguish which types of acupuncture-related therapies were 14 best for treating endometriosis pain. Therapies included acupuncture, acupressure, electro-15 acupuncture, moxibustion, auricular therapy, acupoint catgut embedding, Chinese herbal 16 medicines, hormonal medications, usual care, sham acupuncture and combination 17 therapies. Three studies that used only acupuncture and related therapies reported adverse 18 events – subcutaneous hematomas and itching. Combination therapies was shown to be the 19 20 superior treatment for reducing pain scores, decreasing CA125, and increasing response rates. All acupuncture-related therapies were better than Western Medicine alone, with 21 electroacupuncture being the most efficacious for pain management. All acupuncture-22 related therapies were more effective than Western medicine for reducing CA125 and 23 acupressure was the best for reducing this level. Response rate was improved by all 24 acupuncture-related therapies, with auricular acupuncture showing the highest response 25 rates. Study issues included heterogeneity in the population characteristics, a lack of 26 consistency in diagnostic criteria, and variance in the selection of acupuncture points. Since 27 the types of acupuncture therapies were often used in combination with each other, the 28 authors felt it would be difficult to isolate which ones or combinations were more effective. 29 30

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# 31 Bladder Pain Syndrome/Interstitial Cystitis (BPS/IC)

Verghese et al. (2016) assessed the effectiveness of various complementary therapies 32 33 available for treatment of BPS. A total of 1,454 citations were identified. The key interventions studied were acupuncture, relaxation therapy, physical therapy, hydrogen-34 rich therapy, diet, and nitric oxide synthetase. Authors concluded that therapies with the 35 potential for benefit in patients with bladder pain syndrome are dietary management, 36 acupuncture, and physical therapy. These findings were obtained from small studies and 37 hence caution is advised. More studies of higher quality are needed to confirm findings. 38 39 Sönmez et al. (2017) aimed to determine the effectiveness of acupuncture treatment in patients with refractory IC/BPS. Twelve refractory IC/BPS female patients received 10 40 sessions of acupuncture at a frequency of twice a week. The visual analog score (VAS), 41 42 interstitial cystitis symptom index (ICSI), interstitial cystitis problem index (ICPI),

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O'Leary-Saint symptom score (OSS), Patient Health Questionnaire (PHQ9), Pelvic pain 1 and urgency & frequency patient symptom scale tests (PUF) and maximum voided volume 2 (MVV) were completed in 1st, 3rd, 6<sup>th</sup>, and 12th months following the treatment. Results 3 demonstrated that there were statistically significant decreases in all the scores evaluated 4 at first month compared with the baseline. While the change in VAS score in months 1, 3, 5 6, and 12 were found statistically significant, measurements of ICSI, OSS and PUF scores 6 and MVV values in months 6 and 12 and ICPI and PHQ scores in month 12 were not found 7 statistically significant compared to the pre-treatment period. Response to treatment for the 8 first 3 months following acupuncture application was 100%, but this ratio was measured 9 as 33.3% (4/12) in the sixth month and 16.6% (2/12) in the 12th month. Authors suggested 10 11 that acupuncture appeared to be an effective, useful, non-invasive method in patients with IC/BPS. It can be used as an appropriate treatment method not only in refractory cases, but 12 also in non-chronic IC cases since it appeared to be better compared to other treating agents. 13 14

# 15 **Dysmenorrhea**

Woo et al. (2018) aimed to evaluate the current evidence regarding the efficacy and safety 16 of acupuncture on primary dysmenorrhea in a systematic review. This review included 60 17 randomized controlled trials; however, the meta-analysis only included 49 RCTs. Most 18 studies showed a low or unclear risk of bias. Authors found that compared to no treatment, 19 20 manual acupuncture and electro-acupuncture were more effective at reducing menstrual pain, and compared to nonsteroidal anti-inflammatory drugs (NSAIDs), manual 21 acupuncture and warm acupuncture were more effective at reducing menstrual pain. 22 Authors concluded that the results of this study suggest that acupuncture might reduce 23 menstrual pain and associated symptoms more effectively compared to no treatment or 24 NSAIDs, and the efficacy could be maintained during a short-term follow-up period. Woo 25 et al. (2018) suggested that despite limitations due to the low quality and methodological 26 restrictions of the included studies, acupuncture might be used as an effective and safe 27 treatment for females with primary dysmenorrhea. 28

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Yan et al. (2020) reviewed 28 systematic reviews and meta-analyses, and 281 original studies on 26,459 patients. Moderate quality evidence suggested that acupuncture and moxibustion were more effective than indomethacin or fenbid for treating pain in primary dysmenorrhea. Low quality evidence suggested that acupuncture and moxibustion can effectively treat dysmenorrhea with fewer adverse events than medication.

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In a systematic review, Wang et al. (2023) evaluated 15 trials with 1,018 participants. Acupuncture, compared to sham acupuncture, reduced the VAS pain scores for dysmenorrhea more effectively with moderate certainty evidence. Pelvic pain scores were reduced more than controls with high certainty evidence. Acupuncture combined with conventional therapy improved quality of life more than conventional therapies alone. Six studies reported on safety and documented that adverse events were less frequent in participants who received acupuncture.

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Chen et al. (2024) completed a systematic review and network meta-analysis of 57 studies 1 with 3,903 participants with primary dysmenorrhea. Acupuncture, warm acupuncture, 2 acupressure and moxibustion were superior for pain management for primary 3 dysmenorrhea versus NSAIDs and waitlist groups. There were no severe adverse events 4 5 noted.

7 **Chronic Pelvic Pain (CPP)** 

Sung et al. (2018) aimed to evaluate the current evidence from randomized controlled trials 8 (RCTs) related to the effectiveness and safety of acupuncture treatment (AT), including 9 electroacupuncture or thread-embedding therapy in combination with modern technology, 10 11 for chronic pelvic pain (CPP) in women via a systematic review and meta-analysis. Four RCTs with 474 participants were included. The methodological quality of included studies 12 was generally low. The results of meta-analysis of two studies showed that AT combined 13 with conventional treatment (CT) was associated with significantly reduced CPP, based on 14 the total effectiveness review suggested the potential of AT combined with CT compared 15 to CT alone for treating female CPP. However, there was insufficient evidence to conclude 16 that AT can be recommended as a complementary and alternative (CAM) treatment for 17 women with CPP. Larger, more rigorously designed RCTs are needed to confirm results. 18 19

6

20 Lin et al. (2023) utilized 17 randomized, controlled trials with 1,455 participants for metaanalysis. Acupuncture, electroacupuncture, moxibustion, laser, catgut implantation, 21 auricular acupuncture, and acupressure were included. The control intervention group 22 included health education, western medication, physiotherapy, sham acupuncture, and 23 herbal medicine. The visual analog scale and total pain scores from the NIH-chronic 24 prostatitis symptom index were used for outcome evaluation. Conditions treated included 25 endometriosis, chronic prostatitis, pregnancy-related pelvic and low back pain, and 26 dysmenorrhea. The authors concluded that the acupuncture interventions were more 27 beneficial for pain management than sham acupuncture, western medications or herbal 28 medicines when used alone or with these other therapies. 29

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#### PRACTITIONER SCOPE AND TRAINING 31

Practitioners should practice only in the areas in which they are competent based on their 32 33 education training and experience. Levels of education, experience, and proficiency may vary among individual practitioners. It is ethically and legally incumbent on a practitioner 34 to determine where they have the knowledge and skills necessary to perform such services 35 and whether the services are within their scope of practice. 36

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It is best practice for the practitioner to appropriately render services to a patient only if 38 39 they are trained, equally skilled, and adequately competent to deliver a service compared to others trained to perform the same procedure. If the service would be most competently 40 delivered by another health care practitioner who has more skill and training, it would be 41 best practice to refer the patient to the more expert practitioner. 42

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Depending on the practitioner's scope of practice, training, and experience, a patient's 1 condition and/or symptoms during examination or the course of treatment may indicate the 2 need for referral to another practitioner or even emergency care. In such cases it is essential 3 for the practitioner to refer the patient for appropriate co-management (e.g., to their primary 4 care physician) or if immediate emergency care is warranted, to contact 911 as appropriate. 5 See the Managing Medical Emergencies (CPG 159 - S) clinical practice guideline for 6 information. 7 8 References 9 American Medical Association. (current year). International Classification of Diseases 10 11 Tenth Revision, (ICD-10) 12 Amsallem F, Sanchez S, Armoiry X, Mion F. Effectiveness of Non-Pharmacological 13 Interventions for Irritable Bowel Syndrome: A Systematic Review. Evid Based 14 Complement Alternat Med. 2021 Nov 8;2021:4404185. doi: 10.1155/2021/4404185. 15 PMID: 34790245; PMCID: PMC8592737 16 17 Anastasi, JK, McMahon, DJ, Kim, GH. Symptom management for irritable bowel 18 syndrome: a pilot randomized control trial of acupuncture/moxibustion. Gastroenterol 19 20 Nurs. 2009 Jul-Aug;32(4):243-55 21 Begg, C, Cho, M, Eastwood, S, Horton, R, Moher, D, Olkin, I, Pitkin, R, Rennie, D, Schulz, 22 KF, Simel, D, Stroup, DF. Improving the quality of reporting of randomized controlled 23 trials. The CONSORT statement. JAMA. 1996 Aug 28;276(8):637-9 24 25 Chae Y, Lee H, Kim H, Sohn H, Park JH, Park HJ. The neural substrates of verum 26 27 acupuncture compared to non-penetrating placebo needle: an fMRI study. Neurosci Lett. 2009 Jan 30:450(2):80-4 28 29 Chan, J, Carr, I, Mayberry, JF. The role of acupuncture in the treatment of irritable bowel 30 syndrome: a pilot study. Hepatogastroenterology. 1997 Sep-Oct;44(17):1328-30 31 32 Chang, AB, Lasserson, TJ, Gaffney, J, Connor, FL, Garske, LA. Gastro-oesophageal reflux 33 treatment for prolonged non-specific cough in children and adults. Cochrane Database 34 Syst Rev. 2005 Apr 18;(2):CD004823 35 36 Chang, CS, Ko, CW, Wu, CY, Chen, GH. Effect of electrical stimulation on acupuncture 37 38 points in diabetic patients with gastric dysrhythmia: a pilot study. Digestion. 2001;64(3):184-90 39 40 41 Chao GQ, Zhang S. Effectiveness of acupuncture to treat irritable bowel syndrome: a meta-42

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