Clinical Practice Guideline:	Acupuncture Services Medical Policy/Guideline November 19, 2015	
Date of Implementation:		
Product:	Specialty	
	Related Policies:CPG 12: Medical Necessity Decision Assist Guide for Rehabilitative CareCPG 30: Laser TherapyCPG 39: Direct MoxibustionCPG 48: Indirect MoxibustionCPG 48: Indirect MoxibustionCPG 89: Instrument-Assisted Soft Tissue MobilizationCPG 111: Patient Assessments: Medical Necessity Decision AssistGuideline for Evaluations, Re-evaluations, and ConsultationsCPG 112: Exercise Treatment for Non-Specific Low Back PainCPG 121: Passive Physiotherapy (Therapeutic) ModalitiesCPG 133: Techniques and Procedures not Widely Supported as Evidence-BasedCPG 155: Occupational Therapy Medical Policy GuidelineCPG 167: Therapeutic Massage Medical Policy GuidelineCPG 175: Extraspinal Joint Manipulation, Mobilization Upper ExtremitiesCPG 272: Electric Stimulation for Pain, Swelling and Function in theClinic SettingCPG 273: Superficial Heat and ColdCPG 273: Superficial Heat and Cold	

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1 DESCRIPTION OF THIS CLINICAL PRACTICE GUIDELINE

2 This document addresses Acupuncture services which may be delivered by an Acupuncture

3 practitioner acting within the scope of a professional license. This document also addresses

4 the processes associated with Medical Necessity Determinations performed by American

- 5 Specialty Health (ASH) Clinical Quality Evaluators (CQEs) on Acupuncture services
- 6 submitted for review.
- 7

8 The availability of coverage for Acupuncture services will vary by benefit design as well 9 as by State and Federal regulatory requirements. Benefit plans may include a maximum 10 allowable Acupuncture benefit, either in duration of course of treatment, number of visits, 11 conditions covered, or type of services covered. When the maximum allowable benefit is 12 exhausted or if the condition or service is not covered, coverage will no longer be provided 13 even if the medical necessity criteria described below are met.

14

The determination of medically necessary care, as outlined in this guideline, protects 15 against inappropriate care that may be wasteful, unsafe, and harmful to the patient, while 16 17 assuring approved care is safe, appropriate, curative, and improves the patient's function and quality of life. To protect the health and safety of patients, American Specialty Health 18 (ASH) has implemented medical necessity review strategies to educate practitioners of the 19 need to implement methods to reduce clinical errors and improve patient safety. These 20 medical necessity review strategies include encouraging practitioners to adopt evidence-21 based health care approaches to patient care, implement professional standards of care, and 22 23 follow applicable care management guidelines. Conducting risk management procedures via medical necessity review minimizes potential adverse outcomes and harm to the patient 24 and prevents wasteful, unsafe, and inappropriate care. 25

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Medical necessity review protects the safety of patients. The application of acupuncture to a patient must be appropriate and safe. Cases where it is not safe to administer acupuncture may pose significant health and safety risk to a patient, for example:

- A patient with a history of breast cancer, lymph node resection, and resultant severe
 arm lymphedema is treated with acupuncture in the affected arm. This puts the
 patient at an increased risk of infection in the affected arm.
- A thin, frail patient who presents with shoulder and neck pain reports shortness of
 breath and chest pain after acupuncture is performed in the scapular area. Failure
 to recognize risk factors and symptoms of pneumothorax could lead to life threatening complications.
- A patient reports acute low back pain, loss of sensory perception in the lower
 extremities and bladder dysfunction. Failure to recognize and diagnose classic signs
 of Cauda Equina syndrome may have serious harmful effects including permanent
 neurological dysfunction as this condition requires immediate surgical intervention.

1 Care approved through medical necessity review is safe, appropriate, curative in nature, 2 and directed at specific treatment goal resolution to ensure clinical benefit and 3 improvement to the patient's quality of life.

- For risk-reduction and the protection of patients, the review process does not approve treatment when a condition should be referred to a medical physician, the treatment is unsafe, or when treatment is not providing measurable health improvement.
- For the benefit of patients, the review process approves services when the evidence
 and practitioner treatment plan supports the use of conservative treatment for
 conditions known to be amenable to the services provided so that patients may
 recover from conditions without the need for more costly or high-risk treatments
 such as prescription opioids, injections, or surgery.
- 13

14 GUIDELINES

15 **1. PROVIDERS OF ACUPUNCTURE SERVICES**

- 16 Covered, medically necessary Acupuncture services must be delivered by a qualified 17 acupuncture practitioner acting within the scope of their license as regulated by the Federal 18 and State governments. Only those healthcare practitioners who hold an active license, 19 certification, or registration with the applicable state board or agency may provide such 20 services.
- 21
- Aides and other non-qualified personnel are limited to the provision of non-skilled services such as preparing the individual, treatment area, equipment, or supplies.
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25 **2. ACUPUNCTURE SERVICES**

26 **<u>2.1 Medically Necessary</u>**

- For individuals not covered by Medicare, (please see section 2.5 for information about Medicare policy) Acupuncture Services are considered medically necessary for treatment of any of the following:
 - Tension-type Headache; Migraine Headache with or without Aura;
 - Hip or Knee Joint Pain associated with Osteoarthritis (OA);
- Other Extremity Joint Pain associated with OA or mechanical irritation/inflammation when chronic and unresponsive to standard medical care;
 - Other Pain Syndromes involving the joints and associated soft tissues;
- Musculoskeletal Cervical Spine, Thoracic Spine, and Lumbar Spine Pain;
- Nausea Associated with Pregnancy (only when co-managed);
- Post-Operative Nausea/Vomiting (generally within the first 24 hours after surgery)
 or Post-Discharge Nausea/Vomiting (generally within a few days after post operative discharge); (only when co-managed);
- Nausea Associated with Chemotherapy; (only when co-managed).

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1		AND when ALL of the following criteria are met
2		
3	1.	The services are delivered by a qualified practitioner of acupuncture services; and
4	2.	The services require the judgment, knowledge, and skills of a qualified practitioner
5		of acupuncture services due to the complexity and sophistication of the therapy and
6		the clinical condition of the individual; and
7	3.	The service is aimed at treatment of disorders for which coverage is available; and
8	4.	The service is for conditions that require the unique knowledge, skills, and
9		judgment of an acupuncture practitioner for education and training of the patient
10		that is part of an active skilled plan of treatment; and
11	5.	There is a clinically supported expectation that the service will result in a clinically
12		significant level of functional improvement within a reasonable and predictable
13		period of time*; and
14	6.	An individual's function could not reasonably be expected to continue to be
15		sustained or improved without continued care as the individual gradually resumes
16		normal activities; and
17	7.	The documentation objectively verifies progressive functional improvement over
18		specific time frames and clinically justifies the initiation of continuation of
19		acupuncture services; and
20	8.	There are no diagnostic red flags ¹ or red flags that are present are being addressed
21		appropriately, including, as needed, co-management:
22		• Examples of red flags may include but are not limited to new or progressing
23		neurological deficits; history of malignancy; long term steroid use; sudden
24		weight loss; and
25	9.	Any present yellow flags ² are being evaluated and managed appropriately:
26		• Examples of yellow flags may include but are not limited to fear-avoidance
27		behaviors; low self-efficacy; delayed return to work; and
28	10	. There are no absolute contraindications present including, but not limited to:
29		• The use of acupuncture with patients who have uncontrolled movements;

. . . 0.1 0 11 • . .

^{*}Reasonable and predictable period of time: The specific time frames for which one would expect practical functional improvement is dependent on various factors A reasonable trial of care to determine the patient's potential for improvement in or restoration of function is generally up to 4 weeks and is influenced by the patient's condition; clinical evaluation findings; stage of the condition (acute, sub-acute, chronic); severity of the condition; and patient-specific elements (age, gender, past and current medical history, family history, and any relevant psychosocial factors).

¹ Red Flag(s): Signs and symptoms presented through history or examination/assessment that warrant more detailed and immediate medical assessment and/or intervention.

² Yellow Flag(s): Adverse prognostic indicators with a psychosocial predominance associated with chronic pain and disability. Yellow flags signal the potential need for more intensive and complex treatment and/or earlier specialist referral.

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1	0	Needling of an edematous limb at risk of lymphedema. (Note: Placing an	
2		acupuncture needle in a limb at risk of, or exhibiting lymphedema is	
3		absolutely contraindicated)	
4	0	Needling of areas of spinal instability where relaxation of the surrounding	
5		Needling of soore, keloide, recent wounds or skin with sonsory deficit.	
07	0	Needling umbilicus area: infant fontanelles: area of breast; or	
/ 8	0	implants/artificial joints:	
9	0	Hemophilia/hemorrhagic diseases: neutropenia_thrombocytopenia:	
10	0	Severe psychotic or other emotional conditions precluding patient	
11	C C	cooperation and safety;	
12	0	Intoxication with alcohol, prescription medications or illicit drugs:	
13	0	Mechanical obstruction (i.e., foreign body in throat, bowel obstruction);	
14	0	Clear indications for surgical intervention (i.e., fractures, bleeding wounds);	
15	0	Fulminant infections/sepsis; acute wounds; burns at needle site;	
16	0	Damaged or prosthetic heart valves; history of endocarditis;	
17	0	Treatment that would cause harm by delaying other diagnosis or treatment;	
18	0	Electric stimulation with internal automatic defibrillator, or other implanted	
19		electronic devices: and	
20	11. Any r	elative contraindications for acupuncture or electro-acupuncture therapy have	
21	been a	addressed and managed appropriately. Relative contraindications may include	
22	but are not limited to anticoagulant therapy; seizure disorders; diabetes; skin		
23	condi	tions of concern in the area of needing or overall poor skin condition that	
24	might preclude needling; acute cerebrovascular accident; cancer (e.g., tumors local		
25	to area of needing or related systemic conditions such as thrombocytopenia); and		
20	12. Ileau	nent plaining and outcomes meet the chieffa dermed below.	
27	2 2 Not Med	ically Necessary	
20 29	<u>2.2 100 Mea</u> 1 Acum	uncture for any conditions other than those noted above is generally	
30	consid	lered not medically necessary.	
31	2. Maint	enance care (e.g., elective care, wellness care) is considered not medically	
32	neces	sary and is often a specific benefit exclusion.	
33	3. Acupt	uncture services are considered not medically necessary if any of the	
34	follow	ving is determined:	
35	a. Th	ne service is not aimed at treatment of disorders for which coverage is	
36	av	railable.	
37	b. Tł	ne service is for conditions for which therapy would be considered routine	
38	ed	ucational, training, conditioning, or fitness. This includes treatments or	
39	ac	tivities that require only routine supervision.	

1	с.	The expectation does not exist that the service(s) will result in a clinically
2		significant improvement in the level of functioning within a reasonable and
3		predictable period of time (up to 4 weeks).
4		• If, absent supervised care, function could reasonably be expected to
5		improve at the same / similar rate as the individual gradually resumes
6		normal activities, then the service is considered not medically necessary.
7		• If an individual's expected restoration potential would not produce a
8		meaningful improvement in relation to the extent and duration of the service
9		required to achieve such potential, the service(s) would be considered not
10		medically necessary.
11		• The documentation fails to objectively verify functional progress over a
12		reasonable period of time (up to 4 weeks).
13		• The patient has reached maximum therapeutic benefit.
14	d.	A passive modality is not preparatory or adjunctive to other skilled treatment
15		procedures or is not necessary in order to provide other skilled treatment
16		procedures safely and effectively.
17	e.	A passive modality has insufficient published evidence to support a clinically
18		meaningful physiologic effect on the target tissue or improve the potential for
19		a positive response to care for the condition being treated.
20	f.	Services do not require the skills of a qualified practitioner of acupuncture
21		services. Examples include but are not limited to:
22		• Practitioner recommended activities and services that can be practiced
23		independently and can be self-administered safely and effectively.
24		• Home exercise programs that can be performed safely and independently to
25		continue therapy without skilled supervision.
26		• Activities for the general health and welfare of the individual such as:
27		• General exercises (basic aerobic, strength, flexibility, or aquatic
28		programs) to promote overall fitness/conditioning.
29		 Services/programs for the primary purpose of enhancing or returning to
30		athletic or recreational sports.
31		Massages and whirlpools for relaxation.
32		• General public education/instruction sessions.
33	g.	Reevaluations or assessments of a patient's status that are incorporated within
34		the definition of the work components included within the acupuncture services
35		Current Procedural Terminology (CPT®) codebook codes. (See chart below)
36	h.	Reevaluations or assessments of a patient's status that are not necessary to
37		continue a course of therapy nor related to a new condition, new or changed
38		health status for which the evaluation will likely result in a change in the
39		treatment plan.
40	1.	The treatments/services are not supported by and are not performed in
41		accordance with nationally recognized clinical standards or peer-reviewed

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1 2	literature as documented in appliable ASH CPGs or other literature accepted by ASH Clinical Quality committees.
3	4. The following treatments are considered not medically necessary because they are
4 5	educational, or training in nature. In addition, these treatments/programs may be specifically excluded under benefit plans:
6	• Back school
7	• Group therapy (because it is not one-on-one individualized to the specific
8	patient's needs).
9	 Vocational rehabilitation programs and any program or evaluation with the
10	primary goal of returning a patient to work.
11	Work hardening programs.
12	 Nutrition wellness education or similar wellness interventions.
13	5. The use of therapeutic magnets as a replacement for acupuncture needling services
14	is not considered medically necessary. Magnet therapy is scientifically unprover
15	for the treatment of pain, including when it is applied to acupuncture points. (CPC
16	133 Techniques and procedures not Widely Supported as Evidence -Based and CPC
17	54 -Magnet Therapy - Static).
18	
19	2.3 Co-Management Requirements
20	Conditions that require medical co-management in order for treatment with acupuncture to
21	De considered medically necessary include:
22	• Paralyses/Plegias
23	• Abdominal/Pelvic Pain
24	• Nausea/vomiting
25	• Pregnancy
26	• Post-Surgical Conditions
27	• Ear/Eye Pain
28	• Cancer
29	• Masses
30	• Pain Related to Other/Systemic Conditions (e.g., Ankylosing Spondylitis, Humar
31	Immunodeficiency Virus (HIV), Multiple Sclerosis, Chest Pain).
32	
33	<u>Evidence of an management with a medical practitioner must be decumented for al</u>
34 25	Evidence of co-management with a medical practitioner must be documented for an application of the medical processity review (MND) can be completed. Decumentation
33 26	only that the child has a medical practitioner is not adequate
37	only that the enfit has a metical practitioner is not adequate.
38	Children 4-11 years of age:
39	Co-management with the child's medical practitioner is required. If documentation of co

40 management is not provided, response codes may be used as appropriate with medical

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necessity review to notify the acupuncture practitioner of the need to report the co-1 management information on the next medical necessity review submission. Documentation 2 only that the child has a medical practitioner is not adequate. 3 4 The main objective of co-management requirements for children receiving acupuncture is 5 to ensure the medical practitioner is aware of the child's condition, knows that acupuncture 6 treatment is being sought, and has had the opportunity to coordinate care as needed. 7 8 Verification of medical necessity is required after the initial treatment/visit for all children 9 under 12 years of age. 10 11 12 **2.4 Medical Referral for Acupuncture** If acupuncture services are part of a referral-required program, they may be considered 13 medically necessary only if the patient history, physical exam findings, diagnosis and 14 treatment plan are consistent with the diagnosis provided by the referring physician. 15 16 2.5 Centers for Medicare and Medicaid Services (CMS) Medical Necessity 17 For individuals covered by Medicare, ASH manages CMS Required and Supplemental 18 benefits for Medicare Advantage Plans. Required (Traditional) Medicare benefits are 19 covered based on CMS guidelines and regulations, CMS approved ICD defined conditions 20 and CPT® defined services. ASH practitioners are required to follow CMS clinical 21 requirements for the appropriate delivery and documentation of services rendered to 22 23 Medicare beneficiaries who are served by ASH Medicare Advantage health plan clients. 24 Medicare coverage based on a National Coverage Determination (NCD 30.3.3) is limited 25 to the following indications and limitations exist: 26 1. Acupuncture is only covered or medically necessary for chronic low back pain. 27 a. Up to 12 visits in 90 days 28 b. For this coverage, chronic low back pain is defined as: 29 i. Lasting 12 weeks or longer 30 ii. Non-specific with no identifiable systemic cause (e.g., not metastatic, 31 inflammatory, infectious) 32 33 iii. Not associated with surgery iv. Not associated with pregnancy 34 v. An additional 8 sessions will be covered for those patients demonstrating 35 an improvement 36 37 c. No more than 20 acupuncture treatments may be administered annually d. Treatment must be discontinued if the patient is not improving or is regressing. 38 39 Required Medicare benefits only cover the acupuncture needling services for chronic low 40 41 back pain as defined in NCD 30.3.3. There are no Local Coverage Determinations (LCD)

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or Local Coverage Articles (LCA) that provide guidance regarding medical necessity other 1 2 than the limited guidance provided by NCD 30.3.3. When Medicare policy guidance for medical necessity is sufficient and clear to guide medical necessity decisions, the 3 applicable Medicare guidance should be used in medical necessity review determinations. 4 If the Medicare guidance for medical necessity review determinations is not clear or is 5 insufficient in providing adequate guidance for a medical necessity determination for 6 acupuncture services, the next policy in line used in making medical necessity review 7 decisions would be the ASH Acupuncture Services Medical Policy Guideline (CPG 264 -8 S) clinical practice guideline. 9

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If applicable this policy will provide guidance for medical necessity review determinations 11 of the Medicare covered service of acupuncture and dry needle therapy for non-specific 12 chronic low back pain. The determination of medically necessary care as outlined in this 13 guideline protects against inappropriate care that may be wasteful, unsafe, and harmful to 14 the patient. The clinical benefit of insuring services is medically necessary highly 15 outweighs the risk from clinical harms, including the possibility of limitations from delayed 16 17 or decreased access to services. These additional criteria are implemented by clinical quality evaluators to determine medical necessity consistently to ensure all appropriate care 18 is provided to Medicare Advantage (MA) beneficiaries. 19

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The clinical evidence to support the delivery of services for covered conditions is supported 21 by the guidelines and primary research references noted below. In summary, the evidence 22 supports the use of acupuncture and dry needle therapy for the treatment of non-specific 23 chronic low back pain when the patient is correctly diagnosed with those conditions, there 24 are not contraindications for the treatment, and the course of care produces a favorable 25 outcome following an appropriate frequency of treatment encounters. 26

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3. CURRENT PROCEDURAL TERMINOLOGY (CPT®) CODES AND **DESCRIPTIONS FOR ACUPUNCTURE**

CPT [®] Code	CPT[®] Code Description
97810	Acupuncture, 1 or more needles; without electrical stimulation, initial 15 minutes of personal one-on-one contact with the patient
97811	Acupuncture, 1 or more needles; without electrical stimulation, each additional 15 minutes of personal one- on-one contact with the patient, with re-insertion of needle(s) (List separately in addition to code for primary procedure)

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CPT [®] Code	CPT® Code Description
97813	Acupuncture, 1 or more needles; with electrical stimulation, initial 15 minutes of personal one-on-one contact with the patient
97814	Acupuncture, 1 or more needles; with electrical stimulation, each additional 15 minutes of personal one- on-one contact with the patient, with re-insertion of needle(s) (List separately in addition to code for primary procedure)

2 In addition to the CPT[®] codes above, the following are covered for Center for Medicare

3 and Medicaid Services (CMS) Acupuncture Chronic Low Back Pain programs. These

4 CPT[®] codes may be covered under other benefit plans. Check the applicable client

- 5 summary for further information.
- 6

CPT [®] Code	CPT[®] Code Description
20560	Needle insertion(s) without injection(s); 1 or 2 muscle(s)
20561	Needle insertion(s) without injection(s); 3 or more muscles

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19 20 **3.1 General CPT Guidelines for Acupuncture**

- 1. Only one CPT[®] code may be reported for each 15-minute increment.
- 2. Only one initial acupuncture code is reported per date of service as these services include both the treatment, set-up, and evaluation necessary to identify the specific acupuncture service(s) necessary for the patient. Therefore, when reporting this service, only one initial code is reported per date of service to identify the complete initial service provided.
- 3. For the initial increment, either code 97810, *or* code 97813 for the initial 15 minutes of personal one-on-one contact with the patient, should be reported.
- For each additional increment of "personal one-on-one contact with the patient with
 re-insertion of needle(s) " performed, either 97811 or 97814 is reported, depending
 on the use or non-use of electrical stimulation during that increment.
- Re-insertion of the needle(s) is required for the use of add-on codes 97811 and
 97814.

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- 6. "Reinsertion" does not imply removing and replacing the same needles as would be contraindicated by related guidelines.
 - 7. Acupuncture services performed without electrical stimulation and with electrical stimulation may be reported at the same session, provided separate 15-minute increments are spent performing each of the services.
- 8. Acupuncture is reported based on 15-minute increments of personal (face-to-face) contact with the patient and not the duration of acupuncture needle(s) retention.
- One or two 15-minute episodes of acupuncture would be the most common pattern of practice and CPT[®] code usage. More than two CPT[®] codes would require documentation of special circumstances necessitating that level of acupuncture treatment.
- 10. Evaluation and management (E/M) services may be reported separately, by 17 appending modifier -25. Significant, separately identifiable evaluation and 18 management service by the same practitioner on the same day of the procedure or 19 other service may be utilized, if the patient's condition requires a significant 20 separately identifiable E/M service, above and beyond the usual preservice and 21 post-service work associated with the acupuncture services. The time of the E/M 22 service is not included in the time of the acupuncture service.
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24 **4. ACUPUNCTURE ADJUNCTIVE THERAPIES**

Therapies may be used as adjuncts to, but not independently of, needle acupuncture. Adjunctive therapies must only be performed on the same date of service as needle acupuncture. Depending upon benefit design therapies may include, but are not limited to:

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CPT[®] Code	CPT[®] Code Description
97010	Application of a modality to one or more areas; hot or
	cold packs
97014	Application of a modality to one or more areas; electrical
	stimulation (unattended)
97018	Application of a modality to one or more areas; paraffin
	bath
97022	Application of a modality to one or more areas;
	whirlpool
97024	Application of a modality to one or more areas;
	diathermy (e.g., microwave)
97026	Application of a modality to one or more areas; infrared

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CPT[®] Code	CPT[®] Code Description
97032	Application of a modality to one or more areas; electrical
	stimulation (manual), each 15 minutes
97034	Application of a modality to one or more areas; contrast
	baths, each 15 minutes
97035	Application of a modality to one or more areas;
	ultrasound, each 15 minutes
97039	Unlisted modality (specify type and time if constant
	attendance)*
97110	Therapeutic procedure, one or more areas, each 15
	minutes; therapeutic exercises to develop strength and
	endurance, range of motion and flexibility
97124	Therapeutic procedure, one or more areas, each 15
	minutes; massage, including effleurage, petrissage and/or
	tapotement (stroking, compression, percussion)
97139	Unlisted therapeutic procedure (specify)*
97140	Manual therapy techniques (e.g.,
	mobilization/manipulation, manual lymphatic drainage,
	manual traction), one or more regions, each 15 minutes
97530	Therapeutic activities, direct (one-on-one) patient contact
	(use of dynamic activities to improve functional
	performance), each 15 minutes
97799	Unlisted physical medicine/rehabilitation service or
	procedure*
G0283	Electrical Stimulation (unattended), to one or more areas
	for indication(s) other than wound care, as part of a
	therapy plan of care
*Procedures listed under the "unlis	ted" CPT [®] codes (97039, 97139 & 97799) will not be covered without

34 4.1 Adjunctive Modalities

documentation of medical necessity.

5 The CPT[®] codebook defines a modality as "any physical agent applied to produce 6 therapeutic changes to biologic tissue; includes but is not limited to thermal, acoustic, light, 7 mechanical, or electric energy." Modalities may be supervised, which means that the 8 application of the modality does not require direct one-on-one patient contact by the 9 practitioner; or modalities may involve constant attendance, which indicates that the 10 modality requires direct one-on-one patient contact by the practitioner.

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Supervised modalities are untimed therapies. Untimed therapies are usually reported only 1 2 once for each date of service regardless of the number of minutes spent providing this service or the number of body areas to which they were applied. Untimed services billed 3 as more than one unit will require significant documentation to justify treatment greater 4 than one session per day. Examples of supervised modalities include: 5 • Hot or cold packs 6 • Unattended electrical stimulation 7 • Paraffin bath 8 Infrared light 9 • 10 Modalities that require constant attendance, are timed, and reported in 15-minute 11 increments (one unit) regardless of the number of body areas to which they are applied. 12

13 Examples of modalities that require constant attendance include:

- Ultrasound
 - Massage
- Manual electrical stimulation
- 16 17

14

15

18 **4.2 Adjunctive Therapeutic Procedures**

19 The CPT[®] codebook defines therapeutic procedures as "A manner of effecting change 20 through the application of clinical skills and/or services that attempt to improve function."

Therapeutic procedures that may be utilized by acupuncture practitioners require direct 21 (one-on-one) patient contact (constant attendance) by the practitioner, are timed therapies, 22 and must be reported in units of 15-minute increments. Only the actual time that the 23 acupuncture practitioner is directly working with the patient performing 24 exercises/activities, instruction, or assessments is counted as treatment time. The time that 25 the patient spends not being treated because of a need for rest or equipment set up is not 26 27 considered treatment time. Any exercise/activity that does not require, or no longer requires, the skilled assessment and intervention of a health care practitioner is not 28 considered a medically necessary therapeutic procedure. Exercises often can be taught to 29 the patient or a caregiver as part of a home/self-care program. Examples of therapeutic 30 31 procedures that require the practitioner to have direct (one-on-one) patient contact include:

- 32
- Therapeutic exercises
- Manual therapy (e.g., soft tissue mobilization)
- 33 34

4.3 Documentation Requirements to Substantiate Medical Necessity of Therapeutic Modalities and Procedures

Proper and sufficient documentation is essential to establish the clinical necessity and
effectiveness of each modality and procedure, aid in the determination of patient outcomes
management, and support continuity of patient care. At a minimum, documentation is
required for every treatment day and for each therapy performed. Each daily record should

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2 parameters for each modality (e.g., amperage/voltage, location of pads/electrodes), area of

3 treatment, total treatment time spent for each therapy (mandatory for timed services), the

4 total treatment time for each date of service, and the identity of the person(s) providing the

- 5 services. Failure to properly identify and sufficiently document the parameters for each
- therapy on a daily progress note may result in an adverse determination (partial approvalor denial).
- 7 or 0 8

9 4.4 Passive Care and Active Care

10 Passive Care

Passive care are those interventions applied to a patient with no active participation on the part of the patient. Passive care includes various skilled *therapeutic procedures* (e.g., chiropractic manipulation, manual therapy, acupuncture) as well as *passive therapeutic modalities*, such as heat, cold, electrical stimulation, and ultrasound. The following guidelines are relevant to the use of *passive therapeutic modalities*:

- Generally used to manage the acute inflammatory response, pain, and/or muscle 16 tightness or spasm in the early stages of musculoskeletal and related condition 17 18 management (e.g., short term and dependent upon patient condition and presentation; a few weeks). When the symptoms that prompted the use of certain 19 passive therapeutic modalities begin to subside (e.g., reduction of pain, 20 inflammation, and muscle tightness) and function improves, the medical record 21 22 should reflect the discontinuation of those modalities, so as to determine the patient's ability to self-manage any residual symptoms. 23
- In Acupuncture Medicine passive therapeutic modalities may also be used for pain management longer term past the acute inflammatory response. (e.g., passive heating modalities for chronic cold conditions). Passive therapeutic modalities can be appropriate in these situations when they are adjunctive to delivery of other skilled therapeutic procedures (e.g., therapeutic exercise, acupuncture) that are considered medically necessary.
- Used as a <u>stand-alone treatment</u> is rarely therapeutic, and thus not required or indicated as the sole treatment approach to a patient's condition. Therefore, a treatment plan should <u>not</u> consist solely of passive therapeutic modalities but should also include skilled therapeutic procedures (e.g., acupuncture, therapeutic exercise).
- Should be based on the most effective and efficient means of achieving the patient's functional goals. Seldom should a patient require more than one (1) or two (2) passive therapeutic modalities to the same body part during the therapy session. Use of more than 2-3 passive therapeutic modalities on a single visit date and for a prolonged period is unusual and should be justified in the documentation for consideration of medical necessity.

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1 Active Care

Active care involves therapeutic interventions that require patients to engage in specific exercises, movements, or activities to improve their health. Unlike passive care, which relies on external treatments (such as passive therapeutic modalities), active care emphasizes patient involvement and responsibility. Examples of active care include

- Therapeutic Exercise Prescription (CPT[®] Code 97110): This service may be considered when healthcare professionals are present and supervising tailored exercises performed by the patient based on the patient's condition, goals, and limitations. These exercises may be considered medically necessary to restore/develop strength, endurance, range of motion and flexibility which has been lost or limited as a result of a disease or injury. (Refer to the "Treatment Interventions" section of this CPG for further information)
- Independent Exercise Programs: Patients are provided with appropriate exercise routines to perform on their own (e.g., home exercise programs [HEP]). Supervised skilled care is provided in the development, modifications, and progressions of the HEP.
- Education and Self-Management: Patients receive education about their condition,
 proper body mechanics, and strategies to prevent recurrence. Empowering patients
 with knowledge helps them actively manage their health.
- 20

Use of various forms of active care should be started as soon as treatment is initiated and documented in the medical record, including instructions supporting independent exercise, education and self-management. Patients should progress from active therapeutic procedures requiring the supervision of a skilled practitioner to solely an independent exercise program as soon as reasonably possible.

26

The goal for active therapeutic procedures requiring the supervision of a skilled practitioner is to provide the necessary skilled support (e.g., assessment, exercise technique and movement correction and feedback, modification and/or exercise progression) to empower patients to successfully adopt and maintain an independent exercise program more efficiently and effectively than if they tried to do it on their own.

32

The length of time per session and the duration for medically necessary, active therapeutic procedures requiring the supervision of a skilled practitioner will vary depending upon multiple factors including but not limited to the patient's knowledge of exercise techniques and health status of the patient, the diagnosis, co-morbidities, phase of care, chronicity, and exam findings, the nature and severity of complaints, and functional impairments.

- 38
- 39 When is supportive documentation required?
- For most patients, the length of time per visit for medically necessary active therapeutic procedures typically does not exceed one to two (1-2) timed units of

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• More than two (2) (e.g., 97110) sessions per week is expected to be a rare occurrence. Frequency of greater than two (2) times per week requires documentation to support this level of supervision.

7 4.5 Treatment Interventions

Below are descriptions and medical necessity criteria, as applicable, for different treatment
 interventions, including specific modalities and therapeutic procedures associated with
 Acupuncture services. This material is for informational purposes only and is not indicative
 of coverage, nor is it an exhaustive list of services provided.

12

3

4

5 6

13 Hot/Cold Packs

Hot packs increase blood flow, relieve pain, and increase flexibility. Cold packs decrease
 blood flow to an area for reduction of pain and swelling. They may be considered medically
 necessary for musculoskeletal conditions that include significant pain and or swelling.

17

18 Paraffin Bath

This modality uses hot wax for application of heat. It is indicated for use to relieve pain and increase range of motion of extremities (typically wrists and hands) in post-surgical patients or patients with chronic joint dysfunction.

22

23 Infrared Light Therapy

Infrared light therapy is a form of heat therapy used to increase circulation to relieve muscle spasm. Other heating modalities are considered superior to infrared lamps and should be

- 26 considered unless there is a contraindication to those other forms of heat. Utilization of the
- 27 Infrared light therapy CPT[®] code is not appropriate for low level laser treatment.
- 28

29 Electrical Stimulation

Various types and frequencies of electrical stimulation are used to relieve pain, reduce
 swelling, and improve muscle function.

32

33 Ultrasound

This modality provides deep heating and possibly micro-massage to a localized area through high frequency sound wave application. Ultrasound may be considered medically necessary to relieve pain and improve healing.

37

38 Therapeutic Exercises

39 Therapeutic exercise includes instruction, feedback, and supervision of a person in an

- 40 exercise program specific to their condition. Therapeutic exercise may be considered
- 41 medically necessary to restore/develop strength, endurance, range of motion and flexibility

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which has been lost or limited as a result of illness, injury, loss of a body part, or congenital 1 abnormality. Exercising done by the patient within a clinic facility or other location (e.g., 2 home; gym) without a practitioner present and supervising would be considered not 3 medically necessary. 4 5 **4.6 Precautions and Contraindications to Therapeutic Modalities and Procedures** 6 7 Thermotherapy: The use of thermotherapy is contraindicated for the following: 8 9 • Recent or potential hemorrhage Thrombophlebitis 10 • 11 • Impaired sensation 12 • Impaired mentation • Local malignant tumor 13 • IR irradiation of the eyes 14 • Infected areas 15 16 17 Precautions for use of thermotherapy include: • Acute injury or inflammation 18 19 • Pregnancy • Impaired circulation 20 • Poor thermal regulation 21 22 • Edema • Cardiac insufficiency 23 • Metal in the area 24 25 • Over an open wound • Large scars 26 • Over areas where topical counterirritants have recently been applied 27 28 Demyelinated nerve • 29 30 **Cryotherapy:** The use of cryotherapy is contraindicated for the following: 31 • Cold hypersensitivity 32 • Cold intolerance 33 • Cryoglobulinemia 34 • Paroxysmal cold hemoglobinuria 35 36 • Raynaud disease or phenomenon 37 Over regenerating peripheral nerves • Over an area with circulatory compromise or peripheral vascular disease 38

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1	Precautions for cryotherapy include:
2	• Over the superficial branch of a nerve
3	• Neuropathy
4	• Over an open wound
5	• Hypertension
6	• Poor sensation or mentation
7	
8	Mechanical Traction:
9	Contraindications for mechanical traction include:
10	• Where motion is contraindicated
11	• Acute injury or inflammation
12	• Joint hypermobility or instability
13	• Peripheralization of symptoms with traction
14	Uncontrolled hypertension
15	Congenital spinal deformity
16	• Fractures
17	Impaired mentation
18	
19	Precautions for mechanical traction include:
20	• Structural diseases or conditions affecting the tissues in the area to be treated (e.g.,
21	tumor, infection, osteoporosis, RA, prolonged systemic steroid use, local radiation
22	therapy)
23	• When pressure of the belts may be hazardous (e.g., with pregnancy, hiatal hernia,
24	vascular compromise, osteoporosis)
25	• Cardiovascular disease
26	• Displaced annular fragment
27	• Medial disc protrusion
28	• Cord compression
29	• When severe pain fully resolves with traction
30	• Claustrophobia or other psychological aversion to traction
31	• Inability to tolerate prone or supine position
32	• Disorientation
33	
34	Additional precautions for <i>cervical</i> traction:
35	• TMJ problems
36	• Dentures

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1	Electrical Currents:	
2	Contraindications for use of electrical currents:	
3	• Demand pacemakers, implantable defibrillator, or unstable arrhythmia	
4	• Placement of electrodes over carotid sinus and heart	
5	• Areas where venous or arterial thrombosis or thrombophlebitis is present	
6	• Pregnancy (over or around the abdomen or low back)	
7	• Infected areas	
8		
9	Precautions for electrical current use:	
10	Cardiac disease	
11	• Impaired mentation	
12	• Impaired sensation	
13	Malignant tumors	
14	• Areas of skin irritation or open wounds	
15		
16	Ultrasound:	
17	Contraindications to the use of <u>ultrasound</u> include:	
18	Malignant tumor	
19	• Pregnant uterus	
20	Central Nervous Tissue	
21	• Joint cement	
22	Plastic components	
23	• Pacemaker or implantable cardiac rhythm device	
24	• Thrombophlebitis	
25	• Eyes	
26	Reproductive organs	
27	• Impaired sensation	
28	Impaired mentation	
29	• Infected areas	
30		
31	Precautions for ultrasound include:	
32	Acute inflammation	
33	• Epiphyseal plates	
34	• Fractures	
35	Breast implants	

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1 **Pediatric Patients:**

2 The use of electrical muscle stimulation, thermotherapy, cryotherapy, ultrasound,

3 laser/light therapy, and mechanical traction is contraindicated if the patient cannot provide

- 4 the proper feedback necessary for safe application.
- 5

6 Unproven:

In addition to the contraindications listed above, there are a wide range of services which are considered unproven, pose a significant health and safety risk, are scientifically implausible and/or are not widely supported as evidence based. Such services would be considered not medically necessary and include, but are not limited to:

- 11 Dry needling
 - Laser therapy
 - Manual muscle testing to diagnosis non-neuromusculoskeletal conditions
 - Microcurrent Electrical Nerve Stimulation (MENS)
- Other unproven procedures (see the *Techniques and Procedures Not Widely Supported as Evidence-Based (CPG 133 S)* clinical practice guideline for
 complete list)
- 18

12 13

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19 **4.7 Redundant Therapeutic Effects and Services by Different Healthcare**

20 **Practitioners/Specialties**

Certain therapeutic modalities and procedures are considered redundant in nature, and it
 would be inappropriate to provide these services to the same body region during the same
 treatment session. This includes treatments, such as but not limited to:

- More than one heating modality
- Massage therapy and myofascial release
- 25 26

24

27 Duplicate services provided by different healthcare practitioners/specialties for the same condition(s) are considered **not** medically necessary. When patients receive acupuncture 28 services, physical therapy services, occupational therapy services, or other healthcare 29 specialty services for the same condition(s), the healthcare practitioners should provide 30 31 different treatments that reflect each healthcare discipline's unique perspective on the patient's impairments and functional deficits and not duplicate the same treatment. Each 32 33 healthcare specialty practitioner must also have separate and distinct evaluations, treatment plans, and goals. 34

35

1 5. CLINICAL DOCUMENTATION

For more information, see the *Medical Record Maintenance and Documentation Practices* (CPG 110 - S) clinical practice guideline.

4

Medical record keeping is an essential component of patient evaluation and management. 5 Medical records should be legible and should contain, at a minimum, sufficient information 6 to identify the patient, support the diagnosis, justify the treatment, accurately document the 7 results, indicate advice and cautionary warnings provided to the patient and provide 8 sufficient information for another practitioner to assume continuity of the patient's care at 9 any point in the course of treatment. Good medical record keeping improves the likelihood 10 11 of a positive outcome and reduces the risk of treatment errors. It also provides a resource to review cases for opportunities to improve care, provides evidence for legal records, and 12 offers necessary information for third parties who need to review and understand the 13 rationale and type of services rendered (e.g., medical billers and auditors/reviewers). 14 15 Outcome measures are important in determining effectiveness of a patient's care. The use 16

- 17 of standardized tests and measures early in an episode of care establishes the baseline status of the patient, providing a means to quantify change in the patient's functioning. Outcome 18 measures provide information about whether predicted outcomes are being realized. When 19 comparing follow-up with baseline outcome metrics does not demonstrate minimal 20 clinically important difference (MCID) (minimal amount of change in a score of a valid 21 outcome assessment tool) the treatment plan should be changed or be discontinued. Failure 22 to use Functional Outcome Measures (FOMs) / Outcome Assessment Tools (OATs) may 23 result in insufficient documentation of patient progress and may result in an adverse 24
- 25 determination (partial approval or denial) of continued care.
- 26

29

30

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27 **<u>5.1 Evaluation and Re-evaluation</u>**

As a best practice, all the following should be clearly described in the submitted records:

- Historical information including a clear description of the current complaint(s);
- Prior and current levels of function;
- Tests performed and the results (e.g., evaluation findings);
- Valid diagnosis(es);
- Therapeutic goals and treatment plan (e.g., specific treatments, number of office visits);
- Response to care, progress, and prognosis; and
- Self Care advice, including home exercise program.
- 36 37
- An initial evaluation service is essential to determine whether any services that may be recommended by the evaluating practitioner are medically necessary, to determine if referral to another clinical setting or another type of evaluation is necessary, to gather

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baseline data, establish a treatment plan, and develop goals based on the data. The initial 1 evaluation is usually completed in a single session. An evaluation is needed before 2 implementing any acupuncture treatment. Initial evaluations include an Evaluation and 3 Management (New Patient or Established Patient E/M) history and physical examination 4 service and may be supported by, as necessary, imaging, laboratory studies, and/or other 5 diagnostic tests and measures in accordance with scope of practice rules and regulations. 6 7 The acupuncture service CPT[®] codes 97810 and 97813 include a brief interval history and 8 examination of the patient's condition, as well as documentation of the patient's response 9 to the treatment and any changes to goals or treatment plan. Routine use of E/M services 10 is not medically necessary. A reevaluation is considered medically necessary following: 11 a trial of care to determine whether that care resulted in significant clinical 12 • 13 improvement and for documenting the need to continue a course of therapy 14 • a need for referral to other healthcare practitioner(s)/specialist(s), or 15 • that discontinuance of treatment is warranted. 16 • 17 A reevaluation (an Established Patient E/M service) is considered medically necessary 18 when **all** the following conditions are met: 19 20 • The reevaluation exceeds the recurring routine assessment of patient status included 21 in the Acupuncture CPT[®] codes work-value; and 22 The documentation of the reevaluation includes **all** of the following elements: 23 • • Evaluation of progress toward current goals; and 24 • Professional judgment about continued care; and 25 Professional judgment about revising goals and/or treatment or terminating 26 0 services: and 27 Any **one** of the following indications is documented: 28 • • An exacerbation, a new condition(s), or new clinical findings. 29 • Significant change in the patient's condition(s). 30 • Failure to respond to the therapeutic interventions outlined in the current plan 31 32 of care. 33 A reevaluation is considered **not** medically necessary once it has been determined that the 34 35 patient has reached maximum therapeutic benefit from the services provided unless there

36 is/are medically necessary reason(s) documented for the reevaluation service.

1 5.2 New and Established Patient Definitions

- 2 The CPT[®] codebook provides the following definitions:
- 3

New Patient: Is one who has not received any professional services from the physician/qualified health care professional or another physician/qualified health care professional of the exact same special and subspecialty who belongs to the same group practice, within the past three (3) years.

8

9 Established Patient: Is one who has received professional services from the physician/qualified health care professional or another physician/qualified health care professional of the exact same specialty and subspecialty who belongs to the same group practice, within the past three (3) years.

13

23

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14 **<u>5.3 Treatment Sessions</u>**

Acupuncture treatment can vary from acupuncture alone (CPT[®] codes 97810, 97811, 97813, 97814) to the use of a variety of adjunctive modalities and procedures depending on the patient's condition, response to care and treatment tolerance. All services must be supported in the treatment plan and be based on an individual's medical condition. An acupuncture treatment session may include:

- A brief evaluation of the patient's progress and response to previous treatment(s);
 Acupuncture.
- Adjunctive modalities (e.g., moxa, Tui Na, hot/cold packs, therapeutic exercise);
 - Recommendations for self-care and home management.
- Skilled reassessment of the individual's problems, plan, and goals as part of the treatment session.
 - Coordination, communication, and documentation.
- Reevaluation, if there is a significant change in the individual's condition or there is a need to update and modify the treatment plan.
- 30 Documentation of treatment should include:
 - Date of treatment.
 - Subjective complaints and current status (including functional deficits and ADL restrictions).
- Description/name of each specific treatment intervention provided, including
 Acupuncture points used, total numbers of needles inserted and removed
- The parameters for each therapy provided (e.g., voltage/amperage,
 pad/electrode placement, area of treatment, types of exercises/activities, and
 intended goal of each therapy);
- 39 Treatment time for each therapy and total treatment time per date of service;
- The patient's response to each service and to the entire treatment session;

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1 2	• Any progress toward the goals in objective, measurable terms using consistent and comparable methods;			
3	• Any changes to the plan of care;			
4	• Recommendations for follow-up visit(s):			
5	• Signature/electronic identifier, name, and credentials of the treating clinician.			
6				
7	5.4 Duplicated / Insufficient Information			
8	Entries in the medical record should be contemporaneous, individualized, appropriately			
9	comprehensive, and made in a chronological, systematic, and organized manner.			
10	Duplicated/nearly duplicated medical records (a.k.a. cloned records) are not acceptable. It			
11	is not clinically reasonable or physiologically feasible that a patient's condition will be			
12	identical on multiple encounters. (Should the findings be identical for multiple encounters,			
13	it would be expected that treatment would change or end because the patient is not making			
14	progress toward current goals.)			
15				
16	This includes, but is not limited to:			
17	• Duplication of information from one treatment session to another (for the same or			
18	different patient[s]).			
19	• Duplication of information from one evaluation to another (for the same or different			
20	patient[s]).			
21				
22	Duplicated medical records do not meet professional standards of medical record keeping			
23	and may result in an adverse determination (partial approval or denial) of those services.			
24				
25	The use of a system of record keeping that does not provide sufficient information (e.g.,			
26	checking boxes, circling items from lists, arrows, travel cards with only dates of visit and			
27	listings)may result in an adverse determination (partial approval or denial) of those			
28	services.			
29	Effective and an analysiste as and be an in other most a mofession of standards do sum ante with			
30	Effective and appropriate record keeping that meets professional standards documents with adapted detail a group of against of the notion t'a status, the notions and severity of			
31 22	his/hor complaint(s) or condition(s) and/or other relevant clinical information (a g			
32 22	history parameters of each therepy performed objective findings progress towards			
24	treatment goals response to care, prognosis)			
34	reament goals, response to care, prognosis).			
36	5.5 Centers for Medicare and Medicaid Services (CMS)			
37	For Medicare and Medicaid services medical records keeping must follow and be in			
38	accordance with Medicare and any additional state Medicaid required documentation			
39	guidelines.			

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1 6. CLINICAL REVIEW PROCESS

2 Medical necessity evaluations require approaching the clinical data and scientific evidence

3 from a global perspective and synthesizing the various elements into a congruent picture

4 of the patient's condition and need for skilled treatment intervention. Clinical review

- 5 decisions made by the CQEs are based upon the information provided by the treating
- 6 practitioner in the submitted documentation and other related findings and information.
 7 Failure to appropriately document pertinent clinical information may result in adverse
- determinations (partial approval or denial) of those services. Therefore, thorough
- 9 documentation of all clinical information that established the diagnosis/diagnoses and
- 10 supports the intended treatment is essential.
- 11

12 **<u>6.1 Definition of Key Terminology used in Clinical Reviews</u>**

13 Elective/Convenience Services

Examples of elective/convenience services include: (a) preventive services; (b) wellness services; (c) services not necessary to return the patient to pre-illness/pre-injury functional status and level of activity; (d) services provided after the patient has reached MTB. (Elective/convenience services may not be covered through specific client or ASH benefits.)

19

20 Minimal Clinically Important Difference (MCID)

The MCID is the minimal amount of change in a score of a valid outcome assessment tool that indicates an actual improvement in the patient's function or pain. Actual significance of outcome assessment tool findings requires correlation with the overall clinical presentation, including updated subjective and objective examination/evaluation findings.

25

26 Maximum Therapeutic Benefit (MTB)

MTB is the patient's health status when the application of skilled therapeutic services has achieved its full potential (which may or may not be the complete resolution of the patient's condition.) At the point of MTB, continuation of the same or similar skilled treatment approach will not significantly improve the patient's impairments and function during this episode of care.

32

If the patient continues to have significant complaints, impairments, and documentedfunctional limitations, one should consider the following:

- Altering the treatment regimen such as utilizing a different physiological approach
 to the treatment of the condition, or decreasing the use of passive care (modalities,
 massage, etc.) and increasing the active care (therapeutic exercise) aspects of
 treatment to attain greater functional gains.
- Reviewing self-management program including home exercise programs; and/or
- Referring the patient for consultation by another health care practitioner for possible co-management or a different therapeutic approach.

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1 **Preventive Services**

- 2 Preventive services are designed to reduce the incidence or prevalence of illness,
- 3 impairment, and risk factors, and to promote optimal health, wellness, and function. These
- 4 services are not designed or performed to treat or manage a specific health condition.
- 5 (Preventive services may or may not be covered under specific clients or through ASH
- 6 benefits.) 7

8 Acute

9 The stage of an injury, illness, or disease, in which the presence of clinical signs and 10 symptoms is less than six weeks in duration, typically characterized by the presence of one 11 or more signs of inflammation or other adaptive response.

12

13 Sub-Acute

The stage of an injury, illness, or disease, in which the presence of clinical signs and symptoms is greater than six weeks, but not greater than twelve weeks in duration.

16

17 Chronic

18 The stage of an injury, illness, or disease, in which the presence of clinical signs and 19 symptoms is greater than twelve weeks in duration.

20 21 **Bod Fla**

21 Red Flag(s)

Signs and symptoms presented through history or examination/assessment that warrant
 more detailed and immediate medical assessment and/or intervention.

24

25 Yellow Flag(s)

Adverse prognostic indicators with a psychosocial predominance associated with chronic pain and disability. Yellow flags signal the potential need for more intensive and complex treatment and/or earlier specialist referral.

29

30 **Co-Morbid Condition(s)**

- The presence of a concomitant condition, that may inhibit, lengthen, or alter in some way the expected response or approach to care.
- 33

34 Health Equity (HE)

- 35 The attainment of the highest level of health for all people, where everyone has a fair and
- 36 just opportunity to attain their optimal health regardless of race, ethnicity, disability, sexual
- orientation, gender identity, socioeconomic status, geography, preferred language, or other
- 38 factors that affect access to care and health outcomes (Centers for Medicare & Medicaid
- 39 Services, 2024).

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1 Social Determinants of Health (SDoH)

2 The conditions in the environments where people are born, live, learn, work, play, worship,

- 3 and age that affect a wide range of health, functioning, and quality of-life outcomes and
- 4 risks. Five domains: 1) Economic stability; 2) Education access and quality; 3) Health care

5 access and quality; 4) Neighborhood and built environment; 5) Social and community

6 context (Office of Disease Prevention and Health Promotion [ODPHP], n.d.).

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8 6.2 Clinical Review for Medical Necessity

9 The goal of the CQEs during the review and decision-making process is to approve, as 10 appropriate, those clinical services necessary to return the patient to pre-clinical/pre-11 morbid health status, stabilize, or functionally improve a chronic condition, as supported 12 by the documentation presented. The CQE is to evaluate if the documentation and other 13 clinical information presented by the practitioner has appropriately substantiated the 14 patient's condition and justifies the treatment plan that is presented.

15

16 Approval

ASH CQEs have the responsibility to approve appropriate care for all services that are medically necessary. The CQEs assess the clinical data supplied by the practitioner in order to determine whether submitted services and/or the initiation or continuation of care has been documented as medically necessary. The practitioner is accountable to document the medical necessity of all services submitted/provided. It is the responsibility of the peer CQE to evaluate the documentation in accordance with their training, understanding of practice parameters, and review criteria adopted by ASH through its clinical committees.

24

25 **Partial Approval**

Occurs when only a portion of the submitted services are determined to be medically necessary services. The partial approval may refer to a decrease in treatment frequency, treatment duration, number of therapies, or other services from the original amount/length submitted for review. This decision may be due to any number of reasons, such as:

- The practitioner's documentation of the history and exam findings are inconsistent with the clinical conclusion(s).
- The treatment dosage (frequency/duration) submitted for review is not supported by the underlying diagnostic or clinical features.
- The need to initiate only a limited episode of care in order to monitor the patient's response to care.
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Additional services may be submitted and reviewed for evaluation of the patient's response to the initial trial of care. If the practitioner or patient disagrees with the partial approval of services, they may contact the CQE listed on their response form to discuss the case, submit additional documentation through the Reopen process, or submit additional documentation

41 to appeal the decision through the clinical appeal process.

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1 Non-approval / Denial

2 Occurs when none of the services submitted for review are determined to be medically

3 necessary services. The most common causes for a non-approval/denial of all services are

4 administrative or contractual in nature (e.g., ineligibility, reached plan benefit limits, non-

5 coverage). Clinically, it is appropriate to deny continued/ongoing care if the patient's

- 6 condition(s) are not, or are no longer, responding favorably to the services being rendered
- 7 by the treating practitioner, or the patient has reached maximum therapeutic benefit.
- 8

9 Additional / Continued Care

Approval of an additional treatment/services requires submission of additional information, including the patient's response to care and updated clinical findings. In cases where an additional course of care is submitted, the decision to approve additional treatment/services will be based upon the following criteria:

- The patient has made clinically significant progress under the initial treatment
 plan/program based on a reliable and valid outcome tool or updated subjective,
 functional, and objective examination findings.
 - Additional clinically significant progress can be reasonably expected by continued treatment. (The patient has not reached MTB or maximum medical improvement.)
 - There is no indication that immediate care/evaluation is required by other health care professionals.
- Any exacerbation or flare-up of the condition that contributes to the need for additional
 treatment/services must be clearly documented.
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Ancillary diagnostic procedures should be selected based on clinical history and examination findings that suggest the necessity to rule out underlying pathology or to confirm a diagnosis that cannot be verified through less invasive methods.

- Information is expected to directly impact the treatment/services and course of care.
- The benefit of the procedure outweighs the risk to the patient's health (short and long term).
 - The procedure is sensitive and specific for the condition being evaluated (e.g., an appropriate procedure is utilized to evaluate for pathology).
- The clinical information that the CQE expects to see when evaluating the documentation in support of the medical necessity of submitted treatment/services should be commensurate with the nature and severity of the presenting complaint(s), the scope of the services being requested, the scope of practice of the practitioner performing the services, and may include but is not limited to:
- 39• History
- 40 Physical examination/evaluation

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- Documented treatment plan and goals
- Estimated time of discharge
- 2 3

In general, the initiation of care is warranted if there are no contraindications to the care, 4 there is reasonable evidence to suggest the efficacy of the intervention, and the intervention 5 is within the scope of services permitted by state or federal law. The treatment submission 6 for a disorder is typically structured in time-limited increments depending on clinical 7 presentation. Dosage (frequency and duration of service) should be appropriately 8 9 correlated with clinical findings, potential complications/barriers to recovery and clinical evidence. When the practitioner discovers that a patient is nonresponsive to the applied 10 interventions within a reasonable time frame, re-assessment and treatment modification 11 should be implemented and documented. If the patient's condition(s) worsen, the 12 practitioner should take immediate and appropriate action to discontinue or modify care 13 and/or make an appropriate healthcare referral. 14

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Services that do not require the professional skills of a practitioner to perform or supervise are not medically necessary. If a patient's recovery can proceed safely and effectively through a home exercise program or self-management program, services are not indicated or medically necessary.

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21 6.3 Critical Factors During Clinical Reviews

The complexity and/or severity of historical factors, symptoms, examination findings, and functional deficits play an essential role to help quantify the patient's clinical status and assess the effectiveness of planned interventions over time. CQEs consider patient-specific variables as part of the medical necessity verification process. The entire clinical picture must be taken into consideration with each case evaluated based upon unique patient and condition characteristics.

28

Such variables may include, but not be limited to co-morbid conditions and other barriers to recovery, the stage(s) of the condition(s), mechanism of injury, severity of the symptoms, functional deficits, and exam findings, as well as social and psychological status of the patient and the available support systems for self-care. In addition, the patient's age, symptom severity, and the extent of positive clinical findings may influence duration, intensity, and frequency of services approved as medically necessary. For example:

- Severe symptomatology, exam findings, and/or functional deficits may require
 more care overall (e.g., longer duration, more services per encounter than the
 average); these patients may require a higher frequency of care; but may require
 short-term trials of care initially to assess the patient response to care.
- Less severe symptomatology, exam findings and/or functional deficits usually
 require less care overall (e.g., shorter duration, fewer services per encounter, and

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- frequency of encounters than the average); but may allow for less oversight and a longer initial trial of care.As patients age, they may have a slower response to care and this may affect the
- As patients age, they may have a slower response to care and this may affect the approval of a trial of care.
- Because pediatric patients (under the age of 12) have not reached musculoskeletal maturity, it may be necessary to modify the types of therapies approved as well as shorten the initial trial of care.
- Complicating and/or co-morbid condition factors vary depending upon individual patient characteristics, the nature of the condition/complaints, historical and examination elements, and may require appropriate coordination of care and/or more timely re-evaluations.
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13 Health equity is the attainment of the highest level of health for all people, where everyone has a fair and just opportunity to attain their optimal health. Factors that can impede health 14 equity include, but are not limited to, race, ethnicity, disability, sexual orientation, gender 15 identity, socioeconomic status, geography, and preferred language. Social Determinants of 16 Health (SDoH) are important influences on health equity status. SDoH are the conditions 17 in the environments where people are born, live, learn, work, play, worship, and age that 18 affect a wide range of health, functioning, and quality-of-life outcomes and risks. There 19 are typically five domains of SDoH: 1) Economic stability; 2) Education access and 20 quality; 3) Health care access and quality; 4) Neighborhood and built environment; 5) 21 Social and community context. These barriers to health equity may impact health care 22 access, the patient presentation, clinical evaluations, treatment planning, and patient 23 outcomes which may in turn influence medical necessity considerations. 24

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The following are examples of the factors CQEs consider when verifying the medical necessity of rehabilitative services for musculoskeletal conditions and pain disorders.

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29 <u>6.4 General Factors</u>

- Multiple patient-specific historical and clinical findings may influence clinical decisions,
 such as but not limited to:
 - Red flags
 - Yellow flags (psychosocial factors)
- Co-morbid conditions (e.g., diabetes, inflammatory conditions, joint instability)
- Age (older or younger)
- Non-compliance with treatment and/or self-care recommendations
- Lack of response to appropriate care
- Lifestyle factors (e.g., smoking, diet, stress, deconditioning)
- Work and recreational activities
- 40 Pre-operative/post-operative care

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1	٠	Medication use (type and adherence)			
2	Nature of Complaint(a)				
3 4	110	Acute and severe symptoms			
+ 5	•	Functional testing results that display severe disability/dysfunction			
5	•	Pain that radiates below the knee or albow (for spinal conditions)			
0	•	Tail that factates below the knee of eloow (for spinal conditions)			
8	Hi	story			
9	•	Trauma resulting in significant injury or functional deficits			
10	•	Pre-existing nathologies/surgery(ies)			
11	•	Congenital anomalies (e.g. severe scoliosis)			
12	•	Recurring exacerbations			
12	•	Prior enjsodes (e.g. >3 for spinal conditions)			
13	•	Multiple new conditions which introduce concerns regarding the cause of these			
14	•	conditions			
16					
17	Ex	amination			
18	•	Severe signs/findings			
19	•	Results from diagnostic testing that are likely to impact coordination of care and			
20		response to care (e.g., fracture, joint instability, neurological deficits)			
21		· · · · · · · · · · · · · · · · · · ·			
22	Assess	sment of Red Flags			
23	At any	y time the patient is under care, the practitioner is responsible for seeking and			
24	recogn	izing signs and symptoms that require additional diagnostics, treatment/service,			
25	and/or	referral. A careful and adequately comprehensive history and evaluation in addition			
26	to ong	oing monitoring during the course of treatment is necessary to discover potential			
27	seriou	s underlying conditions that may need urgent attention. Red flags can present			
28	themse	elves at several points during the patient encounter and can appear in many different			
29	forms.	If a red flag is identified during a medical necessity review, the CQE should			
30	comm	unicate with the practitioner of services as soon as possible by telephone and/or			
31	throug	h standardized communication methods. When a red flag is identified, the CQE may			
32	not ap	prove services and recommend returning the patient back to the referring healthcare			
33	practit	ioner or referring the patient to other appropriate health care practitioner/specialist			
34 25	witti ti	ie measure of urgency as warranted by the history and chinical findings.			
35	Due to	the rarity of actual red flag diagnoses in clinical practice, it is emphasized that the			
30	nractit	ioner does not need to perform expensive or invasive diagnostic procedures (e.g. x-			
38	ray advanced imaging laboratory studies) in the absence of suspicious clinical				
39	characteristics. Important red flags and events as well as the times during the clinical				

40 encounter at which they are likely to appear include but may not be limited to:

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1	Past or Current History
2	• Personal or family history of cancer
3	• Current or recent urinary tract, respiratory tract, or other infection
4	• Anticoagulant therapy or blood clotting disorder
5	• Metabolic bone disorder (osteopenia and osteoporosis)
6	• Unintended weight loss
7	• Significant trauma sufficient to cause fracture or internal injury
8	• Unexplained dizziness or hearing loss
9	• Trauma with skin penetration
10	• Immunosuppression (e.g., AIDS/HIV/ARC)
11	• Intravenous drug abuse, alcoholism
12	Prolonged corticosteroid use
13	• Previous adverse reaction to substances or other treatment modalities
14	• Use of substances or treatment which may contraindicate proposed services
15	• Uncontrolled health condition (e.g., diabetes, hypertension, asthma)
16	
17	Present Complaint
18	Writhing or cramping pain
19	 Precipitation by significant trauma
20	 Pain that is worse at night or not relieved by any position
21	 Suspicion of vascular/cerebrovascular compromise
22	 Symptom's indicative of progressive neurological disorder
23	 Unexplained dizziness or hearing loss
24	• Complaint inconsistent with reported mechanism of injury and/or evaluation
25	findings
26	Signs of psychological distress
27	
28	Physical Examination/Assessment
29	• Inability to reproduce symptoms of musculoskeletal diagnosis or complaints
30	• Fever, chills, or sweats without other obvious source
31	• New or recent neurologic deficit (e.g., special senses, peripheral sensory, motor,
32	language, and cognitive)
33	• Positive vascular screening tests (e.g., carotid stenosis, vertebrobasilar insufficiency, abdominal cortia encurry)
34 25	Abnormal with signs
35	Adhonnar vital signs.
30 27	Oncontrolled hypertension Signs of nutritional deficiency
31 20	 Signs of allergia reaction requiring immediate attention
38	• Signs of anergic reaction requiring immediate attention
39	• Surface lesions or infections in area to be treated

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- Widespread or multiple contusions 1 2 • Unexplained severe tenderness or pain 3 • Signs of abuse/neglect • Signs of psychological distress 4 5 Pattern of Symptoms Not Consistent with Benign Disorder 6 • Chest tightness, difficulty breathing, chest pain 7 • Headache of morbid proportion 8 • Rapidly progressive neurological deficit 9 • Significant, unexplained extremity weakness or clumsiness 10 11 • Change in bladder or bowel function • New or worsening numbress or paresthesia 12 • Saddle anesthesia 13 • New or recent bilateral radiculopathy 14 15 Lack of Response to Appropriate Care 16 History of consultation/care from a series of practitioners or a variety of health care 17 • approaches without resolving the patient's complaint 18 • Unsatisfactory clinical progress, especially when compared to apparently similar 19 cases or natural progression of the condition 20 • Signs and symptoms that do not fit the normal pattern and are not resolving 21 22 23 **Assessment of Yellow Flags** When yellow flags are present, clinicians need to be vigilant for deviations from the normal 24 course of illness and recovery. Examples of yellow flags include depressive symptoms, 25 injuries still in litigation, signs, and symptoms not consistent with pain severity, and 26 behaviors incongruent with underlying anatomic and physiologic principles. 27 28 If a yellow flag is identified during a medical necessity review, the reviewer will 29 communicate with the practitioner of services as soon as possible by telephone and/or 30 31 through standardized communication methods. CQE may recommend returning the patient 32 back to the referring healthcare practitioner or referring the patient to other health care practitioner/specialist as appropriate. 33 34 35 **Health Equity Factors** Health Equity factors may be barriers to clinical progress when reviewing practitioner 36
- 37 submissions for medical necessity. If the clinical quality evaluator notes a related health 38 equity factor, they may communicate with the specialty practitioner regarding the patient's
- equity factor, they may communicate with the specialty practitioner regarding the patient's situation and any possible relationship to medical necessity. Standardized referral
- 40 recommendations or resources for assisting with the patient's health-related needs may also

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be provided. If the clinical quality evaluator notes a related health and safety issue, they
 will utilize the current HSIT guidelines.

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4 Assessment of Historical Information

- The following factors are assessed in review and determination if the services are medically
 necessary:
- The mechanism of onset and date of onset are congruent with the stated condition's
 etiology.
- 9 The patient's past medical history and response to care do not pose contraindication(s) for the services submitted for review.
 - The patient's past medical history of pertinent related and unrelated conditions does not pose contraindication(s) for the services submitted for review.
 - The patient's complaint(s) have component(s) that are likely to respond favorably to services submitted for review.
- Provocative and palliative factors identified on examination indicate the presence
 of a musculoskeletal condition as expected per diagnosis(es) or complaints, or as
 consistent with other type of diagnosis(es).
- The patient's severity of limitations to activities of daily living (ADLs) are appropriate and commensurate for the presence of the condition(s) or disorder(s).
 - The quality, radiation, severity, and timing of pain are congruent with the documented condition(s) or disorder(s).
- The patient's past medical history of having the same or similar condition(s) indicates a favorable response to care.
 - The absence or presence of co-morbid condition(s) may or may not present absolute or relative contraindications to care.

27 Assessment of Examination Findings

- The exam procedures, level of complexity, and intensity are appropriate for the patient's complaint(s) and historical findings.
- Physical examination findings are current, clearly defined, qualified, and quantified, including the nature, extent, severity, character, professional interpretation, and significance of the finding(s) in relation to the patient's complaint(s) and diagnosis(es).
- Exam findings provide evidence justifying the condition(s) is/are likely to respond
 favorably to services submitted for review.
- Exam findings provide a reasonable and reliable basis for the stated diagnosis(es).
- Exam findings provide a reasonable and reliable basis for treatment planning; accounting for variables such as age, sex, physical condition, occupational and recreational activities, co-morbid conditions, etc.
- The patient's progress is being appropriately monitored each visit (as noted within daily chart notes and during periodic re-exams) to ensure that acceptable clinical progress is realized.
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Assessment of Treatment / Treatment Planning

- Treatment dosage (frequency and duration of service) is appropriately correlated with the nature and severity of the subjective complaints, potential complications/barriers to recovery, and objective clinical evidence.
- Services that do not require the professional skills of a practitioner to perform or supervise are not medically necessary, even if they are performed or supervised by an acupuncture practitioner. Therefore, if the continuation of a patient's care can proceed safely and effectively through a home exercise program or self-management program, services are not indicated or medically necessary.
- The treatment plan includes the use of therapeutic procedures to address functional deficits and ADL restrictions.
- The set therapeutic goals are functionally oriented, realistic, measurable, and evidence based.
 - The proposed date of release/discharge from treatment is clearly defined.
 - The selected treatment/therapies are appropriately correlated with the nature and severity of the patient's condition(s) and treatment goals.
- Functional Outcome Measures (FOM) demonstrate minimal clinically important difference (MCID) from baseline results through periodic reevaluations during the course of care. This is important in order to determine the need for continued care, the appropriate frequency of visits, estimated date of release from care, and if a change in the treatment plan or a referral to an appropriate health care practitioner/specialist is indicated.
- Home care, self-care, and active-care instructions are documented.
- 29 Ass

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Assessment of Diagnostic Testing

- Laboratory tests are performed only when medically necessary to improve diagnostic accuracy and treatment planning. Abnormal values are professionally interpreted as they relate to the patient's complaint(s) or to unrelated co-morbid conditions that may or may not impact the patient's prognosis and proposed treatment.
- X-ray procedures are performed only when medically necessary to improve diagnostic accuracy and treatment planning. (Indicators from history and physical examination indicating the need for x-ray procedures are described in the *X-Ray Guidelines (CPG 1 S)* clinical practice guideline.)

• Advanced imaging studies, when medically necessary and/or available, are used to 1 2 evaluate for structural integrity and to rule out osseous, related soft tissue pathology, or other pathology. 3 • Imaging or special studies must be appropriate given the nature and severity of the 4 patient's condition(s) and the findings obtained from those studies are likely to 5 influence the basis for and character of the proposed treatment. 6 7 6.5 Factors that Influence Adverse Determinations of Clinical Services (Partial 8 9 **Approvals/Denials**) Factors that influence adverse determinations of clinical services may include but are not 10 limited to these specific considerations and other guidelines and factors identified 11 elsewhere in this policy. Topics/factors covered elsewhere in this guideline are also 12 applicable in this section and may result in an adverse determination on medical necessity 13 review. To avoid redundancy, many of those factors have not been listed below. 14 15 Additional Factors Considered in Determination of Medical Necessity 16 17 History / Complaints / Patient Reported Outcome Measures The patient's complaint(s) and/or symptom(s) are not clearly described. 18 • There is poor correlation and/or a significant discrepancy between the complaint(s) 19 • 20 and/or symptom(s) as documented by the treating practitioner and as described by 21 the patient. • The patient's complaint(s) and/or symptom(s) have not demonstrated clinically 22 significant improvement. 23 • The nature and severity of the patient's complaint(s) and/or symptom(s) are 24 insufficient to substantiate the medical necessity of any/all submitted services. 25 • The patient has little, or no pain as measured on a valid pain scale. 26 The patient has little or no functional deficits using a valid functional outcome 27 • measure or as otherwise documented by the practitioner. 28 29 **Evaluation Findings** 30 There is poor correlation and/or a significant discrepancy in any of the following: 31 • • Patient's history 32 Subjective complaints 33 0 • Objective findings 34 o Diagnosis 35 • Treatment plan 36 The application of various exam findings to diagnostic or treatment decisions are 37 ٠ not clearly described or measured. (e.g., severity, intensity, professional 38 interpretation of results, significance). 39

1	• The patient's objective findings have not demonstrated clinically significant
2	
3 4	• The objective findings are essentially normal or are insufficient to support the medical necessity of any/all submitted services
5	• The submitted objective findings are insufficient due to any of but not limited to
6	the following reasons:
7	\circ Old or outdated relative to the requested dates of service
8	\circ Do not properly describe the patient's current status
9	• Do not substantiate the medical necessity of the current treatment plan
10	• Do not support the patient's diagnosis/diagnoses
11	\circ Do not correlate with the patient's subjective complaint(s) and/or
12	symptom(s)
13	• Not all of the patient's presenting complaints were properly examined.
14	• The patient does not have any demonstrable functional deficits or impairments.
15	• The patient has not made reasonable progress toward pre-clinical status or
16	functional outcomes under the initial treatment/services.
17	• Clinically significant therapeutic progress is not evident through a review of the
18	submitted records. This may indicate that the patient has reached maximum
19	therapeutic benefit.
20	• The patient is approaching or has reached maximum therapeutic benefit.
21	• The patient's exam findings have returned to pre-injury status or prior level of
22	function.
23	• There is inaccurate reporting of clinical findings.
24	• The exam performed is for any of the following:
25	• Wellness
26	 Pre-employment
27	 Sports pre-participation
28 29	• The exam performed is non-standard and solely technique/protocol based.
30	Assessment/Diagnosis
31	• The assessment/diagnosis is not supported by one or more of the following:
32	 Patient's history (e.g., date/mechanism of onset)
33	 Subjective complaints (e.g., nature and severity, location)
34	• Objective findings (e.g., not clearly defined and/or quantified, not
35	professionally interpreted, significance not noted)
36	• Referral diagnosis when a referral is required
37	
38	Submitted Medical Records
39	• The submitted records are insufficient to reliably verify pertinent clinical
40	information, such as (but not limited to):

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1	• Patient's clinical health status
2	• The nature and severity of the patient's complaint(s) and/or symptom(s)
3	 Date/mechanism of onset
4	 Objective findings
5	 Diagnosis/diagnoses
6	• Response to care
7	 Functional deficits/limitations
8	• There are daily notes submitted for the same dates of service with different/altered
9	findings without an explanation.
10	• There is evidence of duplicated or nearly duplicated records for the same patient
11	for different dates of service, or for different patients.
12	• There is poor correlation and/or a significant discrepancy between the information
13	presented in the submitted records with the information presented during a verbal
14	communication between the reviewing CQE and treating practitioner.
15	• The treatment time (in minutes) and/or the number of units used in the performance
16	of a timed service (e.g., modality, procedure) during each encounter/office visit was
17	not documented.
18	• Some or all of the service(s) submitted for review are not documented as having
19	been performed in the daily treatment notes.
20	
21	Treatment / Treatment Planning
22	• The submitted records show that the nature and severity of the patient's
23	complaint(s) and/or symptom(s) require a limited, short trial of care in order to
24	monitor the patient's response to care and determine the efficacy of the current
25	treatment plan. This may include, but not limited to, any of the following:
26	 Significant trauma affecting function
27	 Acute/sub-acute stage of condition
28	 Moderate-to-severe or severe subjective and objective findings
29	 Possible neurological involvement
30	• Presence of co-morbidities that may significantly affect the treatment plan
31	and/or the patient's response to care
32	• There is poor correlation of the treatment plan with the nature and severity of the
33	patient's complaint(s) and/or symptom(s), such as (but not limited to):
34	 Use of acute care protocols for chronic condition(s)
35	• Prolonged reliance on passive care
36	• Active care and reduction of passive care are not included in the treatment
37	plan
38	• Use of passive modalities in the treatment of sub-acute or chronic conditions
39	beyond the acute, inflammatory response time frame

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1	• Use of passive modalities as stand-alone treatments (which is rarely thereportie) or as the sole treatment approach to the patient's condition(s)
2	There is evidence from the submitted records that the nation? a treatment or
3	• There is evidence from the submitted fectords that the patient's treatment can
4	proceed safety and effectively unough a nome exercise program of sen
5	The notion t's function has improved complaints and symptoms have decreased
0	• The patient's function has improved, complaints and symptoms have decreased and patient requires loss treatment (a.g., losser units of services per office visit
/ 0	lesser frequency, and/or shorter total duration to discharge)
0	• The national's symptoms and/or exam findings are mild and the national's treatmer
9 10	nlan requires a lesser frequency (e.g. units of services office visits per week
10	and/or total duration
11	 Therapeutic goals have not been documented. Goals should be measurable and
12	written in terms of function and include specific parameters
13	 Theremoutic goals have not been reassessed in a timely manner to determine if the
14	• Include goals have not been reassessed in a unitry manner to determine if up
15	 Failure to make progress or respond to care as documented within subjective
10	complaints objective findings and/or functional outcome measures
18	 The patient's condition(s) is/are not amenable to the proposed treatment plan
10	 Additional significant improvement cannot be reasonably expected by continue
20	treatment and treatment must be changed or discontinued.
21	• The patient has had ongoing care without any documented lasting therapeutic
22	benefits.
23	• The condition requires an appropriate referral and/or coordination with othe
24	appropriate health care services.
25 26	• The patient is not adhering to the treatment plan that includes lifestyle changes to help reduce frequency and intensity of symptoms
20	• The notion t is not adhering to treatment plan that includes medically necessary
27	• The patient is not adhering to treatment plan that includes medically necessary
20	• The use of multiple passive modelities with the same or similar physiologic affect
29	• The use of multiple passive modalities with the same of similar physiologic effect to the identical region is considered a duplication of services and not reasonable of
31	medically necessary
22	 Home care self care and active care instructions are not implemented of
32	documented in the submitted records
34	 Uncomplicated diagnoses do not require services beyond the initial treatment plan
35	before discharging the patient to active home/self-care (e.g. mild knee pain the
36	can be managed with a home exercise program).
37	• As symptoms and clinical findings improve the frequency of services (e.g. visit
38	per week/month) did not decrease.
39	• The submitted services do not or no longer require the professional skills of the
40	treating practitioner.

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1	• The treatment plan is for any of the following:		
2	 Maintenance therapy 		
3	• Preventive care		
4	 Elective/convenience/wellness care 		
5	• Back school		
6	• Group therapy (not one-on-one)		
7	 Vocational rehabilitation or return to work programs 		
8	 Work hardening programs 		
9	• Routine educational, training, conditioning, return to sport, or fitness.		
10	 Non-covered condition 		
11	• There is duplication of services with other healthcare practitioners/specialties.		
12	• The treatment plan is not supported due to, but not limited to, any of the following		
13	reasons:		
14	• Technique-/protocol-based instead of individualized and evidence based		
15	 Generic and not individualized for the patient's specific needs 		
16	 Does not correlate with the set therapeutic goals 		
17	• Not supported in the clinical literature (e.g., proprietary, unproven)		
18	 Not considered evidence-based and/or professionally accepted 		
19	• The treatment plan includes services that are considered not evidence-based, not		
20	widely accepted, unproven and/or not reasonable or medically necessary, or		
21	inappropriate or unrelated to the patient's complaint(s) and/or diagnosis/diagnoses.		
22	(e.g., Low level laser therapy, select forms of EMS such as microcurrent) Also see		
23	the Techniques and Procedures Not Widely Supported as Evidence-Based (CPG		
24	133 - S) clinical practice guideline for complete list).		
25			
26	Health and Safety		
27	• There are signs, symptoms and/or other pertinent information presented through the		
28	patient's history, exam findings, and/or response to care that require urgent		
29	attention, further testing, and/or referral to and/or coordination with other		
30	healthcare practitioners/specialists.		
31	• There is evidence of the presence of Yellow and/or Red Flags. (See section on Red		
32	and Yellow Flags above.)		
33	• There are historical, subjective, and/or objective findings which present as		
34	contraindications for the plan of care.		
35			
36	6.6 Referral / Coordination of Services		
37	When a potential health and safety issue is identified, the CQE must communicate with the		
38	practitioner of services as soon as possible by telephone and/or through standardized		
39	communication methods to recommend returning the patient back to the referring health		

40 care practitioner or referring the patient to other appropriate health care

- 1 practitioner/specialist with the measure of urgency as warranted by the history and clinical
- 2 findings. Such referral does not preclude coordinated cotreatment if / when applicable and
- 3 documented as such.
- 4

9

- 5 Clinical factors that may require referral or coordination of services include, but are not 6 limited to:
- 7 Symptoms worsening following treatment
- Deteriorating condition (e.g., orthopedic, or neurologic findings, function)
 - Reoccurring exacerbations despite continued treatment
- 10 No progress despite treatment
- Unexplained diagnostic findings (e.g., suspicion of fracture)
- 12 Identification of Red Flags
- Identification of co-morbid conditions that do not appear to have been addressed
 previously that represent absolute contraindications to services
- Constitutional signs and symptoms indicative of systemic condition (e.g., unintended weight loss of greater than 4.5 kg/10 lbs. over 6-month period)
 - Inability to provoke symptoms with standard exam
 - Treatment needed outside of scope of practice
- 18 19

17

The Clinical Policy is reviewed and approved by the ASH Clinical Quality committees that are comprised of contracted network practitioners including practitioners of the same clinical discipline as the practitioners for whom compliance with the practices articulated in this document is required. Guidelines are updated at least annually, or as new information is identified that result in material changes to one or more of these policies.

25

26 7. DESCRIPTION AND BACKGROUND

The practice of traditional acupuncture is predicated upon several fundamental underlying principles. The existence of a series of meridians that course through the body along which are located discrete points that correspond to specific organs and/or have particular clinical significance; a vital energy, "chi," flows through the meridians and the acupuncture points regulating bodily functions; it is the disruption of this flow of energy that therapeutic acupuncture is said to address.

33

Medical acupuncturists choose anatomically and physiologically important treatment points which may include both traditional acupuncture points and other non-traditional fixed points. "More attention is focused on the tissue level (e.g., muscle rather than skin) and the type and amount of stimulation given" (White, 2009). Western medical acupuncture has been an available treatment modality in the UK and other countries for many years.

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Acupuncture typically utilizes unique diagnostic procedures to evaluate the meridian/chi 1 2 system. This includes an evaluation of the patient's chief complaint and related health status through standardized diagnostic interviewing and examination techniques. 3 Interviews are based on the traditional "Ten Questions" and examinations include, but are 4 not limited to, evaluation of meridians, points, general vitality and behavior, the radial 5 pulses and the tongue. Based upon the patient's complaint and the findings of these 6 diagnostic procedures, individualized treatment regimens are developed that specify 7 treatment variables such as the acupuncture points to be utilized, needle placement, and 8 type of needle stimulation. There are several variations on the use of acupuncture needles 9 for treatment, including acupuncture and dry needling. Individuals may feel different 10 sensations during acupuncture treatments. The "De Qi" often thought of as the "arrival of 11 qi" energy at the needle insertion site can be experienced in various ways such as 12 numbness, tingling, electrical sensation, fullness, distension, soreness, warmth tenseness, 13 pulling or itching. Acupuncturists may additionally facilitate this qi sensation by twirling, 14 plucking, or thrusting of acupuncture needles. There are also numerous variations of 15 manually or electrically stimulated "needling" techniques, as well as multiple "non-16 17 needling" acupuncture techniques.

18

Depending upon the jurisdiction, those licensed to administer acupuncture may vary.
 Depending upon the practitioner's training, different systems of acupuncture diagnosis and
 treatment may be used.

21 22

23 Multiple different biological mechanisms have been proposed and studied to explain acupuncture. The mechanism of action of analgesia secondary to acupuncture remains 24 unclear, and likely multimodal. However, there are some physiologic effects that have been 25 noted with its use. Many of these proposed mechanisms are centrally mediated and others 26 are local physiologic responses. For example, it is thought that the immediate analgesic 27 effects of acupuncture may be dependent on neural (nerve) innervation. Most commonly it 28 is thought that the stimulation of the acupuncture needle triggers the release of endogenous 29 opioids (endorphins) in various parts of the brain. This effect seems the most pronounced 30 in electro-acupuncture. Another possible mechanism is through the diffuse noxious 31 inhibitory control pathway (DNIC). According to DNIC, a noxious stimulus applied to any 32 33 region of the body can induce immediate suppression of pain transmission in neurons of the trigeminal caudalis and/or the spinal dorsal horn. Another theory proposes that the 34 descending serotoninergic inhibitory pathway is key to acupuncture analgesia. In addition, 35 there is some preliminary evidence that acupuncture may have effects on the inflammatory 36 37 response mediated through the autonomic nervous system. Local tissue effects including release of adenosine at the site of needle stimulation have also been observed as have 38 39 increases in local blood flow. Other modes of action have been reported including local and myofascial trigger point needling effects, segmental pain effects, extra-segmental pain 40 41 effects, and central regulatory effects (White et al., 2008). Current available evidence

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2 there is limited available evidence to define whether exact needle placement on established

3 "Traditional" Acupuncture points is necessary to produce a result. Specific treatment

4 parameters of acupoint selections, number of points needled, depth of insertion, responses

- 5 elicited, needle stimulation- method and strength, needle retention time, needle types and
- the relevance of experience of the acupuncturist have not been adequately determined.
 Future trials are needed to establish the standardization of these characteristics as well as
- to compare the effectiveness of different acupuncture techniques.
- 9

None of the mechanisms of action postulated for acupuncture effects are sufficiently well
 understood to have established a dispositive answer to describe the exact physiological
 mechanism by which acupuncture produces its analgesic and antiemetic effects.

13

14 8. EVIDENCE REVIEW

Evaluating the clinical efficacy of acupuncture in the context of clinical trials is challenging
 primarily because of the difficulty of designing randomized trials with appropriate blinding
 of both subjects and providers. Many studies lack appropriate controls, adequate study size,
 randomization and/or consistent outcome measures.

19

Study controls for comparing real acupuncture (also referred to as verum acupuncture) 20 typically include a placebo, sham acupuncture, standard treatment, or no treatment. Sham 21 22 acupuncture is the most often used control in studies evaluating the efficacy of 23 acupuncture. However, there is no standardized method for employing sham acupuncture and no consensus on needle placement, making it difficult to generalize findings across 24 studies. The goal of applying sham acupuncture is to refrain from stimulating acupuncture 25 points. In many studies, sham is done at irrelevant acupuncture sites; however, evidence 26 has shown sham acupuncture evokes physiological responses. Because the evidence 27 suggests that sham acupuncture is not truly a physiologically neutral event, its use as a 28 control in clinical trials is debatable. It is difficult to distinguish between the specific effects 29 of treatment versus that of the placebo. It has been reported that the ratio of improvement 30 in sham groups was substantially higher than in truly inert placebo groups (Madsen, et al., 31 2009; Ezzo, et al., 2000). Although initially believed to have no effect, some researchers 32 33 contend that needle placement in any position invokes a biological response that may interfere with the interpretation of findings. 34

35

There are now several thousand RCTs evaluating the effectiveness of acupuncture for hundreds of different conditions. The literature is examined below.

38

39 **8.1 Acute Pain**

Nielsen et al. (2022) updated the evidence base for acupuncture therapy for acute pain with
 a review of systematic reviews and meta-analyses on postsurgical/perioperative pain with

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opioid sparing and acute nonsurgical/trauma pain, including acute pain in the emergency 1 department. There are 22 systematic reviews, 17 with meta-analyses of acupuncture in 2 acute pain settings, and a review for acute pain in the intensive care unit. There are 3 additional studies of acupuncture in acute pain settings. The majority of reviews found 4 acupuncture therapy to be an efficacious strategy for acute pain, with potential to avoid or 5 reduce opioid reliance. Future multicenter trials are needed to clarify the dosage and 6 generalizability of acupuncture for acute pain in the emergency department. With an 7 8 extremely low risk profile, acupuncture therapy is an important strategy in comprehensive 9 acute pain care.

10

11 8.2 Chronic Pain

There are several Cochrane Reviews of acupuncture for pain that are inconclusive due to the small number of studies and/or the low quality of studies. Conditions reviewed include menstrual pain (Smith et al., 2011), elbow pain (Green et al., 2002), cancer pain (Paley et al., 2011), rheumatoid arthritis (Casimiro et al., 2005) and acute ankle sprain (Kim et al., 2014).

17

In 2009 BMJ published a systematic review of acupuncture for pain that came to a largely 18 negative conclusion (Madsen et al., 2009). The review focused on trials that included both 19 20 sham acupuncture and no acupuncture controls. Thirteen trials with 3,025 patients were identified. Conditions included OA of the knee, tension-type headaches, migraine 21 22 headache, low back pain, fibromyalgia, abdominal scar pain, and postoperative pain. A small difference was found between acupuncture and placebo acupuncture, comparable to 23 4 mm on a 100 mm visual analog scale. A larger effect equal to 10 mm was found between 24 placebo acupuncture and no acupuncture. This 10 mm difference is considered to be at the 25 margin of clinical significance. They find that overall, the analgesic effects of acupuncture 26 are small and that methodological limitations of the trials make it impossible to determine 27 whether any of these results can be attributed to specific treatment effects rather than 28 placebo. They conclude, "Whether needling at acupuncture points, or at any site, reduces 29 pain independently of the psychological impact of the treatment ritual is unclear." 30

31

Hopton and Macpherson (2010) conducted a systematic review of meta-analyses of 32 acupuncture compared to placebo for acute and chronic pain. The review criteria yielded 33 eight studies, two for low back pain, four on knee pain, and two for headaches. The review 34 found that for osteoarthritis of the knee and headache, acupuncture was more effective than 35 placebo both in the short term and in the long term. For low back pain short term treatment 36 effects were greater than placebo, but for the longer term there was an inconclusive finding. 37 38 The authors conclude that acupuncture has specific effects beyond placebo for a wide range of pain syndromes. They further note that this conclusion is now broadly reflected in the 39 scientific literature and that more salient research should shift focus from placebo-related 40

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3

Vickers et al. conducted a meta-analysis of trials of acupuncture for chronic pain (Vickers 4 et al., 2012). Eligible trials included those for mechanical low back and neck pain, shoulder 5 pain, headache, and osteoarthritis. Study subjects were required to have had pain for a 6 minimum of four weeks and be followed for at least four weeks after the end of treatment. 7 There were no restrictions on what outcomes measures could be used. The analysis 8 identified 29 trials that met these criteria with a total of 17,922 individual patients analyzed. 9 The analysis found acupuncture to be superior to both sham and no acupuncture control for 10 each of the four conditions studied (all p<0.001). The effect sizes were similar across all 11 pain conditions. Patients receiving acupuncture had less pain, with scores 0.23 and 0.15 12 standard deviations lower than sham controls for back and neck pain, osteoarthritis, and 13 chronic headache respectively; the effect sizes in comparison to no acupuncture controls 14 were 0.55, 0.57 and 0.42. It is worth noting that the differences between acupuncture and 15 sham are quite modest when compared to the differences between acupuncture and no 16 17 acupuncture. Sensitivity analyses including for publication bias did not change these findings. The authors concluded, "Our results from individual patient data meta-analyses 18 of nearly 18,000 randomized patients on high quality trials provide the most robust 19 evidence to date that acupuncture is a reasonable referral option for patients with chronic 20 21 pain."

22

A 2013 Cochrane Review examined acupuncture for the treatment of fibromyalgia (Deare et al., 2013). Nine trials with 395 subjects were included. These included both needle acupuncture and electro-acupuncture therapies. The overall conclusion was that there was low to moderate quality evidence that acupuncture improves pain and stiffness in people with fibromyalgia. Sham acupuncture had similar effects. The effects of electroacupuncture are somewhat greater than needle acupuncture and both are considered safe. These findings are qualified due to the low number and quality of studies.

30

MacPherson et al. (2017) aimed to determine the trajectory of pain scores over time after 31 acupuncture, using a large individual patient data set from high-quality randomized trials 32 of acupuncture for chronic pain. The available individual patient data set included 29 trials 33 and 17,922 patients. The chronic pain conditions included musculoskeletal pain (low back, 34 neck, and shoulder), osteoarthritis of the knee, and headache/migraine. Authors used meta-35 analytic techniques to determine the trajectory of posttreatment pain scores. Data on longer 36 term follow-up were available for 20 trials, including 6,376 patients. The central estimate 37 suggests that approximately 90% of the benefit of acupuncture relative to controls would 38 be sustained at 12 months. Authors suggest that the effects of a course of acupuncture 39

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1 treatment for patients with chronic pain do not seem to decrease importantly over 12

2 months.

3 AHRQ published a systematic review by Skelly et al. (2018) on Noninvasive 4 Nonpharmacological Treatment for Chronic Pain. Acupuncture that improved function 5 and/or pain for at least 1 month was found for chronic low back, chronic neck pain, and 6 fibromyalgia. Skelly et al. (2020) updated the evidence from their 2018 report assessing 7 persistent improvement in outcomes following completion of therapy for noninvasive 8 9 nonpharmacological treatment for selected chronic pain conditions. For chronic low back pain, function improved over short and/or intermediate term for acupuncture (SOE low). 10 Improvements in pain at short term were seen for acupuncture (SOE: moderate). For 11 chronic neck pain, acupuncture improved function short and intermediate term, but there 12 was no pain improvement compared with sham acupuncture (SOE: low). Functional 13 14 improvements for fibromyalgia were seen with acupuncture (SOE: moderate) short term compared with usual care, attention control, or sham treatment. At intermediate term, there 15 was functional improvement with acupuncture (SOE: moderate). 16 17 National Institute for Health and Care Excellence (NICE) guideline (2021) examined the 18 literature on acupuncture and chronic pain. Findings included the following: 19 Acupuncture versus sham acupuncture 20 • \circ Pain reduction 21 Very low quality evidence from 13 studies with 1230 participants showed a 22 clinically important benefit of acupuncture compared to sham acupuncture 23 at <3 months. 24 Low quality evidence from 2 studies with 159 participants showed a 25 clinically important benefit of acupuncture compared to sham acupuncture 26 at <3 months. 27 Low quality evidence from 4 studies with 376 participants showed no 28 29 clinically important difference between acupuncture and sham acupuncture 30 at >3 months. Moderate quality evidence from 2 studies with 159 participants showed a 31 32 clinically important benefit of acupuncture compared to sham acupuncture

at >3 months.
Low quality evidence from 1 study with 61 participants showed no clinically important difference between acupuncture and sham acupuncture at >3 months

37 O Quality of life
38 Low to mode

39

 Low to moderate quality evidence from 2 studies with 210 participants showed a clinically important benefit of acupuncture compared to sham

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1			acupuncture at ≤ 3 months.
2			• Moderate quality evidence from 1 study with 158 participants showed sham
3			acupuncture to have a clinically important improvement compared to
4			acupuncture at ≤ 3 months.
5			• Very low quality evidence from 3 studies with 244 participants showed no
6			clinically important difference between acupuncture and sham acupuncture
7			at ≤ 3 months.
8			• Very low quality evidence from 2 studies with 168 participants showed a
9			clinically important benefit of acupuncture compared to sham acupuncture
10			at ≤ 3 months.
11			• Very low to low quality evidence from 1 study with 178 participants showed
12			a clinically important benefit, clinically important harm and no clinically
13			important difference of acupuncture compared to sham acupuncture at ≤ 3
14			months (various quality of life subscales).
15			• Moderate quality evidence from 2 studies with 159 participants showed a
16			clinically important benefit of acupuncture compared to sham acupuncture
17			at ≤ 3 months.
18			• Low quality evidence from 1 study with 72 participants showed a clinically
19			important benefit of acupuncture compared to sham acupuncture at ≤ 3
20			months.
21			• Very low quality evidence from 1 study with 76 participants showed a
22			clinically important benefit of sham acupuncture compared to verum
23			acupuncture at >3 months.
24			• Low quality evidence from 1 study with 96 participants showed no
25			clinically important difference between acupuncture and sham acupuncture
26			at >3 months.
27			• Low quality evidence from 1 study with 153 participants showed a clinically
28			important benefit of acupuncture compared to sham acupuncture at >3
29			months.
30			 Moderate quality evidence from 1 study with 159 participants showed a
31			clinically important benefit of acupuncture compared to sham acupuncture
32			at >3 months.
33		0	Physical function
34			 Very low quality evidence from 1 study with 118 participants showed no
35			clinically important difference between acupuncture and sham acupuncture
36			at ≤ 3 months.
37			• Very low quality evidence from 1 study with 106 participants showed no
38			clinically important difference between acupuncture and sham acupuncture
39			at >3 months.
40	٠	Ac	upuncture versus usual care
41		0	Pain reduction

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1 2	•	Low quality evidence from 5 studies with 234 participants showed a clinically important benefit of acupuncture compared to usual care at ≤ 3
3 4		months. Low quality evidence from 2 studies with 384 participants showed no clinically important difference between acupuncture and usual care at ≤ 3
5		months.
6	-	Moderate quality evidence from 1 study with 3162 participants showed a
7 8		clinically important benefit of acupuncture compared to usual care at ≤ 3 months
0		Moderate quality evidence from 1 study with 344 participants showed no
10		clinically important difference between acupuncture and usual care at >3
11		months
12	\circ (high high high high high high high high
12		Moderate quality evidence from 1 study with 3213 participants showed a
13		clinically important benefit of acupuncture compared to usual care at ≤ 3
15		months. Very low quality evidence from 1 study with 100 participants
16		showed both a clinically important benefit and no clinically important
17		difference between acupuncture and usual care at ≤ 3 months (various
18		quality of life subscales).
19	•	Low quality evidence from 1 study with 204 participants showed a clinically
20		important benefit of acupuncture compared to usual care at >3 months.
21	o P	hysical function
22	•	Very low quality evidence from 1 study with 45 participants showed no
23		clinically important difference between acupuncture and usual care at ≤ 3
24		months.
25	•	Very low quality evidence from 1 study with 100 participants showed a
26		clinically important benefit of acupuncture compared to usual care at ≤ 3
27		months.
28	• P	ain self-efficacy
29	-	Very low quality evidence from 1 study with 294 participants showed a
30		clinically important benefit of acupuncture compared to usual care at ≤ 3
31		months.
32	o P	ain interference
33	-	Very low-quality evidence from 1 study with 100 participants showed a
34		clinically important benefit of acupuncture compared to usual care at >3
35 36		months.
37	Busse et al. ((2023) completed a comparative effectiveness study of available therapies for
38	chronic pair	a associated with temporomandibular disorders (TMD), Because current
39	clinical pra	ctice guidelines are largely consensus-based and provide inconsistent
40	recommenda	ations, they wanted to summarize the current evidence. Based on findings,
4.1	· · · · ·	$-\frac{1}{2}$

41 patients living with chronic pain (\geq 3 months) associated with TMD, and compared with

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placebo or sham procedures, the guideline panel issued conditional recommendations in 1 favor of manipulation, supervised jaw exercise with mobilization, CBT with non-steroidal 2 anti-inflammatory drugs (NSAIDS), manipulation with postural exercise, and acupuncture; 3 (3) conditional recommendations against reversible occlusal splints (alone or in 4 combination with other interventions), arthrocentesis (alone or in combination with other 5 interventions), cartilage supplement with or without hyaluronic acid injection, low level 6 laser therapy (alone or in combination with other interventions), transcutaneous electrical 7 8 nerve stimulation, gabapentin, botulinum toxin injection, hyaluronic acid injection, 9 relaxation therapy, trigger point injection, acetaminophen (with or without muscle relaxants or NSAIDS), topical capsaicin, biofeedback, corticosteroid injection (with or 10 without NSAIDS), benzodiazepines, and β blockers; and (4) strong recommendations 11 against irreversible oral splints, discectomy, and NSAIDS with opioids. These 12 recommendations apply to patients living with chronic pain (≥ 3 months duration) 13 14 associated with TMD as a group of conditions, and do not apply to the management of acute TMD pain. When considering management options, clinicians and patients should 15 first consider strongly recommended interventions, then those conditionally recommended 16 17 in favor, then conditionally against. In doing so, shared decision making is essential to ensure patients make choices that reflect their values and preference, availability of 18 interventions, and what they may have already tried. Further research is warranted and may 19 alter recommendations in the future. 20

21

Park et al. (2023) aimed to assess the effectiveness and safety of acupuncture for TMD via 22 a systematic review of randomized clinical trials. The qualitative analysis of randomized 23 24 clinical trials with acupuncture as the intervention included 32 articles, 22 of which were included in the quantitative analysis (471 participants). Acupuncture significantly 25 improved outcomes versus active controls. In the analysis of add-ons, acupuncture 26 significantly improved the effect rate and pain intensity. However, the quality of evidence 27 was determined to range from low to very low. Acupuncture in TMD significantly 28 improved outcomes versus active controls and when add-on treatments were applied. 29 However, as the quality of evidence was determined to be low, well-designed clinical trials 30 31 should be conducted in the future.

32

Yu et al. (2023) assessed the effect of sham acupuncture (SA) on chronic musculoskeletal pain syndrome (MPS). SA included superficial acupuncture on non-acupoints (SANAs), non-penetration on acupoints (NPAs), and non-penetration on non-acupoints (NPNAs). The pain-related indicators were set as primary outcomes. Forty-two RCTs were included in this study, encompassing a total of 6,876 patients and incorporating 3 types of SA procedures. In the traditional meta-analysis, true acupuncture (TA) was more effective than

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1 SANAs, NPAs, and NPANAs concerning MPS. The quality of the evidence for outcomes

2 ranged from "low" to "moderate." Authors concluded that compared with SA, TA was

3 effective in treating MPS. The effects produced by different SA procedures were different,

- 4 and the order of effects from greatest to least was as follows: SANA, NPA, and NPANA.
- 5

Di Francisco et al. (2024) performed a qualitative and quantitative analysis of the scientific 6 literature regarding the use of acupuncture and laser acupuncture in the treatment of pain 7 8 associated with temporomandibular disorders (TMDs). The aim of this article was to assess 9 the clinical evidence for acupuncture and laser acupuncture therapies as treatment for temporomandibular joint disorder (TMD). This systematic review includes randomized 10 clinical trials (RCTs) of acupuncture and laser acupuncture as a treatment for TMD 11 compared to other treatments. A total of 11 RCTs met inclusion criteria. The findings show 12 that acupuncture is short-term helpful for reducing the severity of TMD pain with muscle 13 14 origin. Meta-analysis revealed that the Acupuncture group and Laser Acupuncture group had a higher efficacy rate than the Placebo control group, showing a high efficacy of 15 Acupuncture and Laser Acupuncture group in the treatment of temporomandibular. In 16 17 conclusion, this systematic review demonstrated that the evidence for acupuncture as a symptomatic treatment of TMD is limited. Further rigorous studies are required to establish 18 whether acupuncture has therapeutic value. 19

20

21 8.3 Osteoarthritis

A Cochrane Review of acupuncture for peripheral joint arthritis identified sixteen trials 22 (3498 individual patients) of adequate quality for review (Manheimer et al., 2010). Twelve 23 of these trials included only people with OA of the knee, three were for OA of the hip and 24 one trial included both hip and knee. Acupuncture showed statistically significant, short-25 term improvements in OA pain and function. However, these differences were not 26 considered to be clinically significant. Using only studies with sham controls deemed 27 adequate to blind participants, these differences were small and not statistically significant. 28 On a pain scale of 0-20, these differences were in the range of 3-4 points. On a functional 29 scale of 0-68, improvements ranged from 3 to 11 points. However, greater effects were 30 seen when compared to waiting list controls. The overall conclusion was that at both 8 and 31 26 week end points, acupuncture offered small benefits in pain and function. These benefits 32 were deemed to be at least partially due to non-specific treatment effects. Atalay et al. 33 (2021) sought to determine the effect of acupuncture treatment and physiotherapy on pain, 34 physical function, and quality of life (OOL) in patients with knee osteoarthritis (KOA). 35 One hundred patients with KOA were randomly divided into the acupuncture group and 36 the physiotherapy group. Both treatments were given in 12 sessions over 6 weeks. Thirteen 37 acupuncture points were selected for the knee. Local points were GB34, SP10, SP9, ST36, 38 ST35, ST34, EX-LE2, EX-LE5, EXLE4, and distal (distant) points were defined as KI3, 39

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SP6, LI4, and ST41. The Visual Analog Scale (VAS) was used to measure pain intensity. 1 2 The Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC) and the 36-Item Short Form Health Survey (SF-36) were used to determine functional status and 3 health-related OOL, respectively. All patients were evaluated at baseline, after the last 4 treatment, and at the 12-week follow-up period. There was no statistically significant 5 difference between the acupuncture group and physiotherapy group in terms of pain, total 6 WOMAC, and SF-36 levels at baseline, after treatment, and at the 12th week after 7 treatment (P > 0.05). Both treatments significantly improved functional status and 8 decreased the level of pain assessed by VAS at the 12-week follow-up of the study. There 9 was no adverse advent related to therapeutic methods. Authors concluded that the 10 acupuncture and physiotherapy performed twice weekly for 6 weeks have similar effects 11 with regard to pain, functional status, and QOL. There were no significant differences 12 between the acupuncture and physiotherapy groups in relief of pain, improved functional 13 status, and QOL in the treatment of KOA. Both acupuncture and physiotherapy treatments 14 were found to yield significantly superior results when compared with baseline values. 15

16

17 Lin et al. (2022) systematically evaluated the efficacy and safety effectiveness of acupuncture inactivation of myofascial pain trigger points in the treatment of osteoarthritis 18 of the knee. A total of 724 patients from 9 RCTs were finally included, and the results of 19 20 meta-analysis showed that the acupuncture myofascial pain trigger point group was better than the control group in terms of total effective rate, cure rate, VAS score, Lysholm score, 21 and WOMAC score. Authors concluded that the efficacy and safety of acupuncturing 22 23 myofascial pain trigger points in the treatment of knee osteoarthritis is positive, but due to the limited number of literature included in this study and the low quality of the included 24 literature, there is still a need for high-quality and large sample size RCTs for the analysis 25 of this treatment option. 26

27

Gibbs et al. (2023) appraised the quality and consistency in recommendations across 28 higher-quality hip and knee osteoarthritis guidelines in a systematic review. Seven higher-29 quality and 18 lesser-quality guidelines were included. Higher-quality guidelines 30 consistently recommended in favor of education, exercise, and weight management and 31 non-steroidal anti-inflammatory drugs (hip and knee), and intra-articular corticosteroid 32 33 injections (knee). Higher quality guidelines consistently recommended against hyaluronic acid (hip) and stem cell (hip and knee) injections. Other pharmacological recommendations 34 in higher-quality guidelines (e.g., paracetamol, intra-articular corticosteroid (hip), 35 hyaluronic acid (knee)) and adjunctive treatments (e.g., acupuncture) were less consistent. 36 37 Arthroscopy was consistently recommended against in higher-quality guidelines. No higher-quality guidelines considered arthroplasty. 38

- 39
- 40 Chen et al. (2023) investigated the clinical efficacy of acupuncture combined with active 41 exercise training in improving pain and function of knee osteoarthritis (KOA) individuals.

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Authors analyzed trials of acupuncture combined with active exercise training for KOA. 1 2 They performed systematic analyses based on different outcome measures, including total efficiency rate, visual analogue scale (VAS), the Western Ontario and Mcmaster 3 Universities Osteoarthritis Index (WOMAC), the Lysholm Knee Scale (LKS) and range of 4 motion (ROM). A total of 11 high-quality studies including 774 KOA individuals were 5 included in this review for meta-analysis. The results showed that acupuncture combined 6 with active exercise training (combined group) was superior to the acupuncture group in 7 improving the total effective rate, reducing the pain level (VAS), improving knee joint 8 function (WOMAC) and improving joint range of motion (ROM). Similarly, the combined 9 group showed significant improvements in the total effective rate, pain (VAS) and knee 10 function (WOMAC) compared with the non-acupuncture group. Authors concluded that 11 the combined effect of all studies showed significant benefits of acupuncture combined 12 with active exercise training in improving the total effective rate, reducing pain, promoting 13 recovery of knee function and expanding range of motion. However, some evaluation 14 indicators are highly subjective and need to be further confirmed by more objective and 15 evidence-based high-quality RCTs in future. 16

17

Kwak et al. (2023) aimed to find out whether the combined treatment of acupuncture and 18 oral medication is more effective than sole oral medication in reducing pain and improving 19 20 knee function at the end of treatment and after short-term period (4-6 weeks after treatment). Second, if it is effective, they investigated whether the effect surpasses the 21 minimal clinically important difference. The combined treatment of oral medication and 22 23 adjuvant acupuncture showed statistically significant improvement in VAS and WOMAC scores at the end of acupuncture treatment and short-term follow-up time (between 4 and 24 6 weeks after acupuncture). In addition, the degree of improvement of VAS and WOMAC 25 index showed effects beyond minimal clinically important differences compared to 26 pretreatment at both the end of acupuncture treatment and the short-term follow-up of 27 acupuncture treatment. Authors concluded that the existing evidence suggests that adjuvant 28 acupuncture may play a role in the treatment of knee osteoarthritis. However, physicians 29 should be aware of adverse effects such as hematoma in adjuvant acupuncture treatment. 30

31

32 **8.4 Headache**

33 Linde et al. conducted a Cochrane Review of acupuncture for tension-type headaches (Linde et al., 2009). Eleven trials with 2,317 subjects met the inclusion criteria. Two of the 34 trials compared acupuncture to routine care (including self-care) and found clinically and 35 statistically significant benefits to acupuncture for both headache frequency and pain 36 37 intensity. In these two trials 47% of patients receiving acupuncture reported a decrease in the number of headache days by at least 50%, compared to 16% of patients in the control 38 39 groups. Six of the trials compared acupuncture to some form of sham acupuncture where needle placement was not guided by any specific acupuncture findings. In this comparison, 40 41 50% of the "true" acupuncture patients experienced a greater than 50% reduction in

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headache pain compared to 41% in the sham controls. Three trials compared acupuncture 1 2 to massage, physiotherapy, or relaxation. The methodological quality of these studies was poor and the results difficult to interpret, but overall, there appeared to be a slight benefit 3 to acupuncture compared to these interventions. A previous Cochrane review of this topic 4 vielded inconclusive results. However, the addition of six newer trials in this review led 5 the authors to conclude that acupuncture could be "a valuable non-pharmacological tool in 6 patients with frequent episodic or chronic tension-type headaches." 7 8 Another Cochrane Review examined acupuncture for migraine headache prophylaxis 9 (Linde et al., 2009). Twenty-two trials with 4,419 participants met the inclusion criteria. 10 Six of the trials compared acupuncture to no treatment or routine care. The acupuncture 11 care resulted in fewer headaches than in the controls over 3-4 months. One of the trials 12

followed patients for nine months and the treatment effects were undiminished. Fourteen trials compared acupuncture to some form of sham intervention. The results of single trials varied considerably, but the pooled results did not show any clinically or statistically significant benefit to the "true" acupuncture. Four trials compared acupuncture to drug prophylaxis and demonstrated slightly better outcomes and fewer side effects in the acupuncture groups. Overall, the authors conclude that acupuncture should be considered a valid treatment option for migraine prophylaxis.

20

Turkistani et al. (2021) evaluated the effectiveness of acupuncture and manual therapy in 21 tension-type headaches. Eight articles involving 3,846 participants showed evidence that 22 23 acupuncture and manual therapy can be valuable non-pharmacological treatment options for tension-type headaches. Acupuncture was compared to routine care or sham 24 intervention. Acupuncture was not found to be superior to physiotherapy, exercise, and 25 massage therapy. Randomized controlled trials done in various countries showed manual 26 therapy also significantly decreased headache intensity. Manual therapy has an efficacy 27 that equals prophylactic medication and tricyclic antidepressants in treating tension-type 28 headaches. The available data suggests that both acupuncture and manual therapy have 29 beneficial effects on treating symptoms of tension-type headache. However, further clinical 30 trials looking at long-term benefits and risks are needed. 31

32

33 8.5 Low Back and Neck Pain

The Cochrane Review of acupuncture for low back pain (Furlan et al., 2005) has not been 34 updated and is considered obsolete at this point. A systematic review and meta-analysis of 35 acupuncture for non-specific low back pain by Lam et al. was published in Spine (Lam et 36 37 al., 2013). They identified 32 relevant studies, 25 of which had usable data for a metaanalysis. They found clinically significant benefits to acupuncture when compared to sham 38 39 acupuncture and no treatment in both pain and function. They also compared acupuncture to other common treatment modalities including NSAIDS, muscle relaxants and analgesics 40 41 and found acupuncture to offer comparable relief. However, these findings were qualified

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- 1 because of the low overall quality of the studies.
- 2

The Cochrane Review for neck pain (Trinh et al., 2006) found 10 clinical trials that met inclusion criteria. All these trials were for chronic neck pain. The overall quality of these trials was judged to be poor. They found that for short term follow-up, acupuncture was more effective than inactive controls. And they found limited evidence that acupuncture was more effective than massage therapy. Also, for neck pain with radiculopathy there was moderate evidence that acupuncture was more effective than waiting list control.

9

Under the aegis of the Agency for Healthcare Research and Quality (AHRQ), Furlan et al. 10 evaluated the entire range of complementary and alternative therapies, including 11 acupuncture, for back and neck pain (Furlan et al., 2010). For acupuncture, a total of 105 12 clinical trials were evaluated. Acupuncture was found to be superior to placebo for chronic 13 nonspecific low back pain, but only immediately post-treatment. But acupuncture was not 14 different from placebo in post-treatment disability, pain medication intake, or global 15 improvement in chronic nonspecific low back pain. Acupuncture and sham acupuncture 16 17 were similar in reducing chronic non-specific neck pain immediately after treatment. Both were superior to no treatment in improving pain intensity, disability, well-being (SF-36), 18 and range of motion immediately after the treatment. In general, trials that applied sham-19 acupuncture tended to produce negative results (i.e., statistically non-significant) compared 20 to trials that applied other types of placebo (e.g., TENS, medication, laser). This can be 21 22 interpreted as sham acupuncture having greater treatment effects than the other 23 comparators.

24

Cho et al. evaluated the effects of acupuncture for chronic low back pain (Cho et al., 2013). 25 One hundred thirty adults aged 18 to 65 years with chronic, nonspecific low back pain 26 (cLBP) of at least three months duration were randomized to either individualized, 27 traditional acupuncture, or to a sham needling procedure. The sham consisted of using non-28 penetrating, semi-blunt needles at non-acupuncture points. The primary outcome measure 29 was a visual analog scale (VAS) for bothersomeness, and the secondary outcome measure 30 was function (Oswestry). Patients were treated twice weekly for six weeks. VAS for 31 "bothersomeness" scores for the real acupuncture groups decreased by 3.36 points, 32 33 compared with 2.27 points for participants receiving sham acupuncture at the primary end point. There were no significant differences in disability scores and other secondary 34 35 outcomes measures between the two treatment groups.

36

Yuan et al. (2015) reviewed and analyzed the existing data about pain and disability in TCM treatments for NP and LBP. Seventy-five randomized controlled trials (n = 11,077) were included. Almost all of the studies investigated individuals experiencing chronic NP (CNP) or chronic LBP (CLBP). Authors concluded that acupuncture, acupressure, and

41 cupping could be efficacious in treating the pain and disability associated with CNP or

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CLBP in the immediate term. Zeng and Chung (2015) aimed to summarize and evaluate 1 2 the available systematic reviews on the clinical effectiveness and cost-effectiveness of acupuncture for the management of chronic nonspecific low back pain (cnLBP), and to 3 identify the safety of acupuncture for the management of cnLBP. Seventeen systematic 4 reviews were included. Five found that acupuncture was more effective when compared 5 with a no treatment/waiting list control, as there were eight systematic reviews and meta-6 analysis providing positive and consistent findings. Seven systematic reviews providing 7 positive findings of the comparison of acupuncture to sham acupuncture/passive modality 8 treatment. Three systematic reviews of multiple RCTs also indicated positive and 9 consistent findings of the comparison of acupuncture plus an intervention vs an 10 intervention alone. Overall, findings on the effectiveness of acupuncture for cnLBP were 11 consistent. 12

13

Liu et al. (2015) examined the set of systematic reviews of acupuncture for low back pain. They identified 16 systematic reviews, the overall quality of which they judged to be low. They found inconclusive evidence of a benefit for acupuncture compared to a sham for acute low back pain. For chronic low back pain there was consistent evidence of a benefit for short term pain relief and functional improvement when compared to sham or to no treatment. This benefit was found both when acupuncture was used in isolation and when used as an adjunct treatment.

21

Zeng and Chung (2015) aimed to summarize and evaluate the available systematic reviews 22 23 on the clinical effectiveness and cost-effectiveness of acupuncture for the management of chronic nonspecific low back pain (cnLBP), and to identify the safety of acupuncture for 24 the management of cnLBP. Seventeen systematic reviews were included. Five found that 25 acupuncture was more effective when compared with a no treatment/waiting list control, 26 as there were eight systematic reviews and meta-analysis providing positive and consistent 27 findings. Seven systematic reviews providing positive findings of the comparison of 28 acupuncture to sham acupuncture/passive modality treatment. Three systematic reviews of 29 multiple RCTs also indicated positive and consistent findings of the comparison of 30 acupuncture plus an intervention vs an intervention alone. Overall, findings on the 31 effectiveness of acupuncture for cnLBP were consistent. 32

33

In another AHRQ publication by Chou et al. (2016) titled Noninvasive Treatments for Low
 Back Pain, noted the following key points:

For acute low back pain, a systematic review found acupuncture associated with
 lower pain intensity versus sham acupuncture using nonpenetrating needles; three
 other trials reported effects consistent with these findings. One trial of sham
 acupuncture using penetrating needles to non-acupuncture points found no effect
 on pain. These were no clear effects on function in 5 trials (Strength of Evidence
 (SOE): low for pain and function).

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- For chronic low back pain, a systematic review found acupuncture associated with
 lower pain intensity versus sham acupuncture (superficial needling at acupuncture
 or non-acupuncture points, or nonpenetrating pressure at acupuncture points)
 immediately at the end of treatment and at up to 12 weeks, but there were no
 differences in function. Four additional trials reported results consistent with these
 findings (SOE: moderate for pain and function).
- For chronic low back pain, a systematic review found acupuncture associated with
 lower pain intensity and better function immediately after treatment versus no
 acupuncture. Mean effects on pain ranged from 7 to 24 points on a 0- to 100-point
 scale; for function one trial reported a difference of 8 points on a 0- to 100-point
 scale and the other two trials; two trials showed small or no clear differences at
 longer-term follow up (SOE: moderate for pain and function).
- For acute low back pain, a systematic review found acupuncture associated with
 slightly greater likelihood of overall improvement versus NSAIDs at the end of
 treatment (SOE: low).
- For chronic low back pain, a systematic review found acupuncture associated with
 better pain relief and improvement in function immediately postintervention (SOE:
 low).
 - Harms of acupuncture were poorly reported in the trials, though no serious adverse events were reported (SOE: low).
- 20 21

19

Qaseem et al. (2017) provided clinical recommendations on noninvasive treatment of low 22 back pain: Recommendation 1: Given that most patients with acute or subacute low back 23 pain improve over time regardless of treatment, clinicians and patients should select 24 nonpharmacologic treatment with superficial heat (moderate-quality evidence), massage, 25 acupuncture, or spinal manipulation (low-quality evidence). (Grade: strong 26 27 recommendation). Recommendation 2: For patients with chronic low back pain, clinicians and patients should initially select nonpharmacologic treatment with exercise, 28 multidisciplinary rehabilitation, acupuncture, mindfulness-based stress reduction 29 (moderate-quality evidence), tai chi, yoga, motor control exercise, progressive relaxation, 30 electromyography biofeedback, low-level laser therapy, operant therapy, cognitive 31 32 behavioral therapy, or spinal manipulation (low-quality evidence). (Grade: strong recommendation). 33

34

Chou et al. (2017) updated the 2007 American College of Physicians guideline that addressed nonpharmacologic treatment options for low back pain. New evidence was available. Authors systematically reviewed the current evidence on nonpharmacologic therapies for acute or chronic non radicular or radicular low back pain. Randomized trials of 9 nonpharmacologic options versus sham treatment, wait list, or usual care, or of 1 nonpharmacologic option versus another were included. New evidence indicated that tai

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chi (strength of evidence [SOE], low) and mindfulness-based stress reduction (SOE, 1 2 moderate) are effective for chronic low back pain and strengthens previous findings regarding the effectiveness of yoga (SOE, moderate). Evidence continues to support the 3 effectiveness of exercise, psychological therapies, multidisciplinary rehabilitation, spinal 4 manipulation, massage, and acupuncture for chronic low back pain (SOE, low to 5 moderate). Limited evidence shows that acupuncture is modestly effective for acute low 6 back pain (SOE, low). The magnitude of pain benefits was small to moderate and generally 7 short term; effects on function generally were smaller than effects on pain. 8 9

Wong et al. (2017) authored a systematic review for the Ontario Protocol for Traffic Injury 10 Management (OPTIMa) Collaboration. According to high-quality guidelines: (1) all 11 patients with acute or chronic LBP should receive education, reassurance and instruction 12 on self-management options; (2) patients with acute LBP should be encouraged to return 13 to activity and may benefit from paracetamol, nonsteroidal anti-inflammatory drugs 14 (NSAIDs), or spinal manipulation; (3) the management of chronic LBP may include 15 exercise, paracetamol or NSAIDs, manual therapy, acupuncture, and multimodal 16 17 rehabilitation (combined physical and psychological treatment); and (4) patients with lumbar disc herniation with radiculopathy may benefit from spinal manipulation. 18 According to Tice et al. (2017), the strength of evidence appears adequate to support 19 coverage of acupuncture, CBT, MBSR, and yoga for chronic low back pain. Evidence-20 based boundaries on duration of therapy and on repetitive courses of therapy are reasonable 21 given the potential for inappropriate overuse of services. Authors reported that there was 22 23 no evidence on the concurrent use of multiple modalities, so concurrent treatment should be treated on a case-by-case basis. 24

25

Xiang et al. (2017) sought to establish whether sham acupuncture (SA) or placebo 26 acupuncture (PA) was more efficacious for reducing low back pain (LBP) than other 27 routine treatments and to discuss whether SA or PA is appropriate for randomized 28 controlled trials of acupuncture for LBP. Review identified 7 trials (1,768 participants); all 29 were included in the meta-analysis. They found statistically significant differences in pain 30 reduction post-intervention between SA or PA and routine care or a waiting list, however, 31 no significant difference was observed between SA or PA and routine care or no treatment 32 33 for post-intervention function. Authors concluded that compared with routine care or a waiting list, SA or PA was more efficacious for pain relief post-intervention. Concluding 34 that SA or PA is appropriate for acupuncture research would be premature. Guidelines 35 evaluating SA or PA control methods are needed to determine the specific effect of 36 37 acupuncture over placebo.

38

Mu et al. (2020) authored an updated Cochrane review. This review is a split from an earlier
 Cochrane review, and it focuses on chronic LBP. Mu et al. (2020) assessed the effects of

41 acupuncture compared to sham intervention, no treatment, or usual care for chronic

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nonspecific LBP. Authors included only randomized controlled trials (RCTs) of 1 2 acupuncture for chronic nonspecific LBP in adults. They excluded RCTs that investigated LBP with a specific etiology. Trials comparing acupuncture with sham intervention, no 3 treatment, and usual care were included. The primary outcomes were pain, back-specific 4 functional status, and quality of life; the secondary outcomes were pain-related disability, 5 global assessment, or adverse events. Authors included 33 studies (37 articles) with 8270 6 participants. The majority of studies were carried out in Europe, Asia, North and South 7 America. Seven studies (5,572 participants) conducted in Germany accounted for 67% of 8 the participants. Sixteen trials compared acupuncture with sham intervention, usual care, 9 or no treatment. Most studies had high risk of performance bias due to lack of blinding of 10 the acupuncturist. A few studies were found to have high risk of detection, attrition, 11 reporting or selection bias. Mu et al. (2020) found low-certainty evidence (7 trials, 1,403 12 participants) that acupuncture may relieve pain in the immediate term (up to 7 days) 13 compared to sham intervention, visual analogue scale (VAS) 0-100). The difference did 14 not meet the clinically important threshold of 15 points or 30% relative change. Very low-15 certainty evidence from five trials (1,481 participants) showed that acupuncture was not 16 17 more effective than sham in improving back-specific function in the immediate term; corresponding to the Hannover Function Ability Questionnaire (HFAQ, 0 to 100, higher 18 values better) change. Three trials (1,068 participants) yielded low-certainty evidence that 19 acupuncture seemed not to be more effective clinically in the short term for quality of life; 20 corresponding to the physical 12-item Short Form Health Survey (SF-12, 0-100, higher 21 values better) change. The reasons for downgrading the certainty of the evidence to either 22 23 low to very low were risk of bias, inconsistency, and imprecision. We found moderatecertainty evidence that acupuncture produced greater and clinically important pain relief; 24 (VAS, 0 to 100), and improved back function; 5 trials, 2,960 participants; corresponding 25 to the HFAQ change in the immediate term compared to no treatment. The evidence was 26 downgraded to moderate certainty due to risk of bias. No studies reported on quality of life 27 in the short term or adverse events. Low-certainty evidence (5 trials, 1,054 participants) 28 suggested that acupuncture may reduce pain; not clinically important on 0 to 100 VAS) 29 and improve back-specific function immediately after treatment; 5 trials, 1,381 30 participants; corresponding to the HFAQ change compared to usual care. Moderate-31 certainty evidence from one trial (731 participants) found that acupuncture was more 32 33 effective in improving physical quality of life but not mental quality of life in the short term. The certainty of evidence was downgraded to moderate to low because of risk of bias, 34 inconsistency, and imprecision. Low-certainty evidence suggested a similar incidence of 35 adverse events immediately after treatment in the acupuncture and sham intervention 36 37 groups (4 trials, 465 participants), and the acupuncture and usual care groups (1 trial, 74 participants). The certainty of the evidence was downgraded due to risk of bias and 38 39 imprecision. No trial reported adverse events for acupuncture when compared to no treatment. The most commonly reported adverse events in the acupuncture groups were 40 41 insertion point pain, bruising, hematoma, bleeding, worsening of LBP, and pain other than

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LBP (pain in leg and shoulder). Authors concluded that acupuncture may not play a more 1 2 clinically meaningful role than sham in relieving pain immediately after treatment or in improving quality of life in the short term, and acupuncture possibly did not improve back 3 function compared to sham in the immediate term. However, acupuncture was more 4 effective than no treatment in improving pain and function in the immediate term. Trials 5 with usual care as the control showed acupuncture may not reduce pain clinically, but the 6 therapy may improve function immediately after sessions as well as physical but not mental 7 quality of life in the short term. The evidence was downgraded to moderate to very low 8 certainty considering most of studies had high risk of bias, inconsistency, and small sample 9 size introducing imprecision. The decision to use acupuncture to treat chronic low back 10 pain might depend on the availability, cost, and patient's preferences. 11

12

Su et al. (2021) critically evaluated the evidence for acupuncture as an effective treatment 13 for acute LBP (ALBP). Of the 13 eligible RCTs identified, 11 RCTs (involving 707 14 patients) provided moderate-quality evidence that acupuncture has a statistically 15 significant association with improvements in VAS (visual analog scale) score. Two studies 16 17 indicated that acupuncture did not influence the RMDO (Roland-Morris Disability Questionnaire) scores more than the control treatment. Three studies suggested that 18 acupuncture influenced the ODI (Oswestry Disability Index) scores more than the control 19 treatment. Two studies suggested that acupuncture influenced the number of medications 20 taken more than the control treatment. Authors conclude that acupuncture treatment of 21 22 acute LBP was associated with modest improvements in the VAS score, ODI score, and 23 the number of pills, but not the RMDQ score. However, findings should be considered with caution due to the low power original studies. High-quality trials are needed to assess 24 further the role of acupuncture in the treatment of acute LBP. 25

26

27 Wu et al. (2021) evaluated and compared the efficacy and safety of different acupuncture therapies for ALBP. In total, nineteen randomized controlled trials (RCTs) comprising 28 1,427 participants were included. Results showed the following: (I) compared with 29 placebo, motion style acupuncture (MSA), manual acupuncture (MA), and 30 electroacupuncture (EA) were found to be more effective for decreasing VAS score; (II) 31 compared with pharmacotherapy, MSA and MA were found to be more effective in 32 33 reducing ROM score. Results of the surface under the cumulative ranking curve indicated that all acupuncture types were superior to placebo or pharmacotherapy in lowering VAS 34 and ROM score. It was noted that MSA was the most effective treatment. Authors 35 concluded that this study indicated that acupuncture therapy achieved good therapeutic 36 37 effects in the treatment of ALBP, especially MSA therapy. Nevertheless, due to the low quality of the included trials, the credibility of conclusions is low. Further well-designed 38 39 RCTs with high quality and large samples are still needed to evaluate the efficacy and safety of acupuncture therapy for ALBP. 40

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Huang et al. (2021) investigated the effect and safety of acupuncture for the treatment of 1 2 chronic spinal pain. Data was extracted from 22 RCTs including 2,588 patients. Pooled analysis revealed that acupuncture can reduce chronic spinal pain compared to sham 3 acupuncture), mediation control, usual care control, and no treatment control. In terms of 4 functional disability, acupuncture can improve physical function at immediate-term 5 follow-up, short-term follow-up, and long-term follow-up. In summary, compared to no 6 treatment, sham acupuncture, or conventional therapy such as medication, massage, and 7 physical exercise, acupuncture has a significantly superior effect on the reduction in 8 chronic spinal pain and function improvement. Acupuncture might be an effective 9 treatment for patients with chronic spinal pain and it is a safe therapy. 10

11

Baroncini et al. (2022) investigated the available randomized control trials (RCTs) to point 12 out which acupuncture protocol is the most effective for chronic aspecific low back pain 13 (LBP). Efficacy was measured in terms of pain (Visual Analogic Scale, VAS) and 14 disability (Roland Morris Disability Questionnaire, RMQ), Transcutaneous Electrical 15 Nerve Stimulation (TENS). Data from 44 RCTs (8338 procedures) were retrieved. 56% of 16 17 patients were women. The mean age of the patients was 48 ± 10.6 years. The mean BMI was 26.3 ± 2.2 kg/m². Authors concluded that verum acupuncture is more effective than 18 sham treatment for the non-pharmacological management of LBP. Among the verum 19 protocols, individualized acupuncture and standard acupuncture with TENS were the 20 protocols that resulted in the highest improvement in pain and quality of life. 21

22

23 Feise et al. (2023) compared the benefits and harms of treatments for the management of chronic low back pain without radiculopathy. Systematic review and meta-analysis of 24 randomized controlled trials were evaluated. Adults with chronic nonspecific low back 25 pain, excluding radicular pain, in any clinical setting were included. Outcome measures 26 included comparison of pain at immediate-term (≤ 2 weeks) and short-term (>2 weeks to 27 <12 weeks) and serious adverse events. Three studies provided data on the benefits of 28 interventions, and 30 provided data on harms. Studies included interventions of 29 acupuncture (n=8); manipulation (n=2); pharmacological therapies (n=9), including 30 NSAIDs and opioid analgesics; surgery (n=8); and epidural corticosteroid injections (n=3). 31 Acupuncture (moderate quality of evidence, benefit rating of 3) and manipulation 32 33 (moderate quality of evidence, benefit rating of 5) were effective in reducing pain intensity compared to sham. The benefit of the other interventions was scored as uncertain due to 34 not being effective, statistical heterogeneity preventing pooling of effect sizes, or the 35 absence of relevant trials. The harms level warnings were at the lowest (e.g., indicating 36 37 rarer risk of events) for acupuncture, spinal manipulation, NSAIDs, combination ingredient opioids, and steroid injections, while they were higher for single ingredient opioid 38 39 analgesics (level 4) and surgery (level 6). Authors concluded that there is uncertainty about the benefits and harms of all the interventions reviewed due to the lack of trials conducted 40 in patients with chronic nonspecific low back pain without radiculopathy. From the limited 41

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manipulation provide safer benefits than pharmacological or invasive interventions.
However, more research is needed. There were high harms ratings for opioids and surgery.

4

Yan et al. (2023) reevaluated the methodological quality, report quality, and evidence 5 quality of systematic reviews (SRs)/meta-analyses (MAs) of acupuncture for low back pain 6 to determine whether acupuncture effectively treats LBP. Twenty-three SRs/MAs were 7 8 deemed eligible for the present overview. Results from the GRADE evaluation indicated that 13 of 255 outcomes were rated as moderate, 88 were low, and 154 were very low. 9 Acupuncture effectively treated LBP in the SRs/MAs included in the reevaluation. 10 11 However, the methodological, report, and evidence-based quality of the SRs/MAs on acupuncture for LBP was low. Therefore, further rigorous and comprehensive studies are 12 warranted to improve the quality of SRs/MAs in this field. 13

Plener et al. (2023) assessed the effectiveness and safety of conservative interventions 14 compared with other interventions, placebo/sham interventions, or no intervention on 15 16 disability, pain, function, quality of life, and psychological impact in adults with cervical radiculopathy (CR). Of the 2561 records identified, 59 trials met inclusion criteria (n =17 4108 participants). Due to clinical and statistical heterogeneity, the findings were 18 synthesized narratively. There is very-low certainty evidence supporting the use of 19 acupuncture, prednisolone, cervical manipulation, and low-level laser therapy for pain and 20 disability in the immediate to short-term, and thoracic manipulation and low-level laser 21 therapy for improvements in cervical range of motion in the immediate term. There is low 22 23 to very-low certainty evidence for multimodal interventions, providing inconclusive evidence for pain, disability, and range of motion. There is inconclusive evidence for pain 24 reduction after conservative management compared with surgery, rated as very-low 25 certainty. Authors concluded that there is a lack of high-quality evidence, limiting their 26 ability to make any meaningful conclusions. 27

28

29 Takakura et al. (2023) assessed whether acupuncture treatment with superficial skin piercing is superior to placebo treatment. Four hundred patients with essential 30 neck/shoulder stiffness were randomly assigned to penetrating needle treatment 31 (acupuncture ritual and skin penetration), skin-touch needle treatment (acupuncture ritual 32 and skin touch), no-touch needle treatment (acupuncture ritual alone), and no-treatment 33 control. Each of the six acupuncturists applied a needle to each of the four acupoints in the 34 neck/shoulder of 50 patients. Each of the three treatments significantly improved 35 neck/shoulder stiffness compared with the no-treatment control immediately and 24 h after 36 37 treatment. There was a significant improvement in penetrating needle treatment over notouch needle treatment 24 h later. However, there was no significant difference between 38

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the penetrating and skin-touch and skin-touch vs. no-touch. Authors concluded that all 1 treatments that received the ritual of acupuncture were better than the no-treatment control. 2 Only genuine acupuncture involves the specific effects of needle insertion into the body. 3 The acupuncture ritual had a significant impact on the subjective improvement of 4 neck/shoulder stiffness; however, improvement with ritual alone versions of placebo 5 acupuncture was not maintained as with superficial skin piercing. Authors suggest that this 6 study provides important evidence of acupuncture efficacy and information regarding inert 7 no-touch placebo control in acupuncture research. 8 9 Lee et al. (2024) aimed to establish clinical evidence for acupuncture by analyzing data 10 from trials that demonstrated the efficacy of acupuncture for whiplash-associated disorder

11 (WAD) with the following research question: Is acupuncture treatment effective for 12 symptom alleviation in patients with WAD compared with other usual care? Authors 13 included RCTs using acupuncture on patients with WAD. The outcomes were the pain 14 visual analogue scale (VAS) score or numerical rating scale score for neck pain, the range 15 of motion (ROM) of the neck, the Neck Disability Index and safety. A total of 525 patients 16 with WAD from eight RCTs were included in this study. The meta-analysis revealed that 17 the outcomes showed significant differences in the pain VAS score and ROM-extension. 18 Authors concluded that acupuncture may have clinical value in pain reduction and 19 increasing the ROM for patients with WAD. High-quality RCTs must be conducted to 20 confirm the efficacy of acupuncture in patients with WAD. 21

22

23 **8.6 Cancer Pain**

A Cochrane Review by Paley et al. reviewed the trials of acupuncture for cancer pain in 24 adults (Paley et al., 2011). Three RCTs with 204 patients met the inclusion criteria. One 25 study compared traditional auricular acupuncture with auricular acupuncture at non-26 acupuncture points and with a control using non-invasive "ear seeds," at non-acupuncture 27 28 points. The remaining two studies compared acupuncture with pain medication. The reviewers concluded that while there was some evidence of acupuncture effectiveness there 29 30 was a high risk of bias in all studies and no conclusions could be reached regarding acupuncture effectiveness. Paley et al. (2015) updated the Cochrane review. They found 31 32 five studies (with a total of 285 participants) that compared acupuncture against either sham acupuncture or pain-killing medicines. All five identified studies had small sample sizes, 33 34 which reduces the quality of their evidence. Authors reported that none of the studies described in this review were big enough to produce reliable results. None of the studies 35 reported any harm to the participants. They concluded that there was insufficient evidence 36 37 to judge whether acupuncture is elective in relieving cancer pain in adults and that larger, well-designed studies are needed to provide evidence in this area. 38

39 40

Yang et al. (2021) analyzed currently available publications regarding the use of

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acupuncture for pain management among patients with cancer in palliative care settings.
Five studies (*n*=189) were included in this systematic review. Results indicated a favorable
effect of acupuncture on pain relief in palliative care for patients with cancer. Authors
concluded that acupuncture may be an effective and safe treatment associated with pain
reduction in the palliative care of patients with cancer. Further high-quality, adequately
powered studies are needed in the future.
Ge et al. (2022) developed an evidence-based clinical practice guideline of acupuncture in

the treatment of patients with moderate and severe cancer pain. Recommendations were 9 developed through a Delphi consensus of an international multidisciplinary panel including 10 13 western medicine oncologists, Chinese medicine/acupuncture clinical practitioners, and 11 two patient representatives. The certainty of evidence, patient preferences and values, 12 resources, and other factors were fully considered in formulating the recommendations. 13 The Grading of Recommendations Assessment, Development, and Evaluation (GRADE) 14 approach was employed to rate the certainty of evidence and the strength of 15 recommendations. The guideline proposed three recommendations: (1) a strong 16 17 recommendation for the treatment of acupuncture rather than no treatment to relieve pain in patients with moderate to severe cancer pain; (2) a weak recommendation for the 18 combination treatments with acupuncture/acupressure to reduce pain intensity, decrease 19 the opioid dose, and alleviate opioid-related side effects in moderate to severe cancer pain 20 patients who are using analgesics; and (3) a strong recommendation for acupuncture in 21 breast cancer patients to relieve their aromatase inhibitor-induced arthralgia. This proposed 22 23 guideline provides recommendations for the management of patients with cancer pain. The small sample sizes of evidence limit the strength of the recommendations and highlights 24 the need for additional research. 25

26

27 Li et al. (2021) evaluated the effect of acupuncture on treatment-related symptoms among breast cancer survivors. The primary outcomes were pain, hot flashes, sleep disturbance, 28 fatigue, depression, lymphedema, and neuropathy as individual symptoms. They also 29 evaluated adverse events reported in acupuncture studies. Of 26 selected trials (2,055 30 patients), 20 (1,709 patients) were included in the meta-analysis. Acupuncture was more 31 effective than control groups in improving pain intensity, fatigue, and hot flash severity. 32 33 The subgroup analysis indicated that acupuncture showed trends but not significant effects on all the treatment-related symptoms compared with the sham acupuncture groups. 34 Compared with waitlist control and usual care groups, the acupuncture groups showed 35 significant reductions in pain intensity, fatigue, depression, hot flash severity, and 36 37 neuropathy. No serious adverse events were reported related to acupuncture intervention. Mild adverse events (i.e., bruising, pain, swelling, skin infection, hematoma, headache, 38 39 menstrual bleeding) were reported in 11 studies. This systematic review and meta-analysis suggest that acupuncture significantly reduces multiple treatment-related symptoms 40 41 compared with the usual care or waitlist control group among breast cancer survivors. The

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8

Zhang et al. (2021) evaluated the effects of acupuncture in women with breast cancer (BC), 9 focusing on patient-reported outcomes (PROs). Out of the two, 524 identified studies, 29 10 studies representing 33 articles were included in this meta-analysis. At the end of treatment 11 (EOT), the acupuncture patients' quality of life (QoL) was measured by the QLQ-C30 QoL 12 subscale, the Functional Assessment of Cancer Therapy-Endocrine Symptoms (FACT-13 ES), the Functional Assessment of Cancer Therapy-General/Breast (FACT-G/B), and the 14 Menopause-Specific Quality of Life Questionnaire (MENQOL), which depicted a 15 significant improvement. The use of acupuncture in BC patients lead to a considerable 16 17 reduction in the scores of all subscales of the Brief Pain Inventory-Short Form (BPI-SF) and Visual Analog Scale (VAS) measuring pain. Moreover, patients treated with 18 acupuncture were more likely to experience improvements in hot flashes scores, fatigue, 19 sleep disturbance, and anxiety compared to those in the control group, while the 20 improvements in depression were comparable across both groups. Long-term follow-up 21 results were similar to the EOT results. Authors concluded that current evidence suggests 22 23 that acupuncture might improve BC treatment-related symptoms measured with PROs including QoL, pain, fatigue, hot flashes, sleep disturbance and anxiety. However, a 24 number of included studies report limited amounts of certain subgroup settings, thus more 25 rigorous, well-designed and larger RCTs are needed to confirm our results. 26

27

Abe et al. (2022) aimed to identify the current treatment options for pain and numbress in 28 cancer survivors and to evaluate their effects. Cancer survivors were defined as patients 29 diagnosed with cancer who had completed active cancer treatment, whose conditions were 30 stable, and who had no evidence of recurrent or progressive disease. A meta-analysis was 31 conducted using the random-effects model to obtain the effect sizes of 7 types of 32 33 treatments: opioid therapy, nonopioid pharmacotherapy, interventional therapy, acupuncture, education/cognitive behavioral therapy (CBT), physical exercise, and 34 alternative medicine. A total of 36 studies involving 2,870 cancer survivors were included. 35 Among them, 35 (n=2.813) were included in the meta-analysis for pain. The analysis 36 37 suggested that physical exercise, acupuncture, and alternative medicine could significantly reduce pain. Nonopioid pharmacotherapy and education/CBT did not demonstrate 38 39 significant effects. No studies were identified that investigated the effects of opioid therapy or interventional therapy on pain. Regarding numbress, 5 studies (n=566) were included 40 41 in the meta-analysis. Acupuncture (n=99; 2 studies) did not demonstrate significant effects

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on numbress, and the effects of nonopioid pharmacotherapy, education/CBT, and physical 1 exercise could not be determined due to the small number of included studies. No studies 2 were identified that investigated the effects of opioid therapy, interventional therapy, or 3 alternative medicine on numbress. Authors concluded that this meta-analysis suggested 4 that physical exercise, acupuncture, and alternative medicine may reduce pain in cancer 5 survivors, with a very small to moderate amount of evidence. 6 7 8 Mao et al. (2022) authored a joint guideline to provide evidence-based recommendations to practicing physicians and other health care providers on integrative approaches to managing pain in patients with cancer. The Society for Integrative Oncology and ASCO

9 10 convened an expert panel of integrative oncology, medical oncology, radiation oncology, 11 surgical oncology, palliative oncology, social sciences, mind-body medicine, nursing, and 12 patient advocacy representatives. The literature search included systematic reviews, meta-13 analyses, and randomized controlled trials published from 1990 through 2021. Outcomes 14 of interest included pain intensity, symptom relief, and adverse events. Expert panel 15 members used this evidence and informal consensus to develop evidence-based guideline 16 17 recommendations. The literature search identified 227 relevant studies to inform the evidence base for this guideline. Recommendations included the following: 18

• Among adult patients, acupuncture should be recommended for aromatase inhibitor-related joint pain.

- Acupuncture or reflexology or acupressure may be recommended for general cancer pain or musculoskeletal pain.
- 22 23

19

20

21

These recommendations are based on an intermediate level of evidence, benefit outweighing risk, and with moderate strength of recommendation. There is insufficient or inconclusive evidence to make recommendations for pediatric patients.

27

Hershman et al. (2022) examined the effect of acupuncture in reducing AI-related joint 28 pain through 52 weeks. A randomized clinical trial was conducted at 11 sites in the US 29 from May 1, 2012, to February 29, 2016, with a scheduled final date of follow-up of 30 September 5, 2017, to compare true acupuncture (TA) with sham acupuncture (SA) or 31 waiting list control (WC). Participants were randomized 2:1:1 to the TA (n = 110), SA (n32 = 59), or WC (n = 57) group. The TA and SA protocols were composed of 6 weeks of 33 intervention at 2 sessions per week (12 sessions overall), followed by 6 additional weeks 34 of intervention with 1 session per week. Participants randomized to WC received no 35 intervention. All participants were offered 10 acupuncture sessions to be used between 36 weeks 24 and 52. Among 226 randomized, 191 (84.5%) completed the trial. In this 37 randomized clinical trial, women with AI-related joint pain receiving 12 weeks of TA had 38 reduced pain at 52 weeks compared with controls, suggesting long-term benefits of this 39 therapy. 40

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1 de Sousa et al. (2023) described the main acupuncture techniques and parameters that have

2 been used in the most varied symptoms of different types of cancer in a systematic review.

3 After the selection and evaluation phase, 23 studies were included and analyzed. Authors

- 4 concluded that based on this analysis, it is concluded that acupuncture is safe and there is
- 5 evidence of the reduction of gastrointestinal symptoms, chemotherapy-induced peripheral
- 6 neuropathy, pain, dry mouth, fatigue, insomnia, and improvement of cognitive capacity.
- 7

8 Frenkel et al. (2023) reviewed research findings on the beneficial effect of use of CIM modalities in regard to pancreatic cancer, with emphasis on pancreatic ductal 9 adenocarcinoma (PDAC). This data reveal that nutrition counselling; digestive enzyme 10 therapy; microbiome support; dietary supplements; lifestyle interventions (physical 11 activity and circadian health/sleep hygiene) appear to improve QoL of these patients 12 through reduced symptom burden and meeting psychological needs, such as distress and 13 fatigue. Acupuncture, mindfulness, yoga, reflexology, massage, and homeopathy may also 14 contribute to symptom reduction, both physical and psychological, in all stages of the 15 disease. There is supporting evidence that some CIM modalities may alleviate side effects 16 17 and symptoms related to pancreatic cancer and its treatment, suggesting that practitioners might consider integrating these modalities in certain situations encountered in the 18 treatment of pancreatic cancer. Further investigation is needed to define the optimal 19 integration of CIM into the treatment and supportive care of patients affected by pancreatic 20 21 cancer.

22

23 Epstein et al. (2023) compared the effects of acupuncture and massage on musculoskeletal pain among patients with advanced cancer. Participants included patients with advanced 24 cancer with moderate to severe pain and clinician-estimated life expectancy of 6 months 25 or more. The intervention included weekly acupuncture or massage for 10 weeks with 26 monthly booster sessions up to 26 weeks. The primary end point was the change in worst 27 pain intensity score from baseline to 26 weeks. The secondary outcomes included fatigue, 28 insomnia, and quality of life. The Brief Pain Inventory (range, 0-10; higher numbers 29 indicate worse pain intensity or interference) was used to measure the primary outcome. 30 The secondary outcomes included fatigue, insomnia, and quality of life. A total of 298 31 participants were enrolled were women, 33 [11.1%] Black, 220 [74.1%] White, 46 [15.4%] 32 33 Hispanic, and 78.5% with solid tumors). The mean (SD) baseline worst pain score was 6.9 (1.5). During 26 weeks, acupuncture reduced the worst pain score, with a mean change of 34 -2.53 points, and massage reduced the Brief Pain Inventory worst pain score, with a mean 35 change of -3.01 points; the between-group difference was not significant. Both treatments 36 37 also improved fatigue, insomnia, and quality of life without significant between-group differences. Adverse events were mild and included bruising (6.5% of patients receiving 38 39 acupuncture) and transient soreness (15.1% patients receiving massage). Authors concluded that given results of this study, for patients with advanced cancer, both 40 41 acupuncture and massage were associated with pain reduction and improved fatigue,

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2 between the treatments. More research is needed to evaluate how best to integrate these

3 approaches into pain treatment to optimize symptom management for the growing

- 4 population of people living with advanced cancer.
- 5

Yang et al. (2023) performed a study aims to investigate the historical development, recent 6 hotspots and research trends in cancer-related pain (CRP) in a bibliometric analysis. This 7 bibliometric analysis was conducted from 2000 to 2022. A total of 664 publications were 8 included in this work. The number of publications has steadily increased over the last 2 9 decades. The United States has the largest number of published articles (244 papers). This 10 study explored the application value of acupuncture in the management of CRP with 11 bibliometric analysis, offering an intuitive understanding of this topic and revealing the 12 hotspots and research trends. Overall, it demonstrates the prominent role of acupuncture as 13 an integrated medicine and a complementary alternative medicine. Traditional acupuncture 14 and electroacupuncture play an important role as alternative therapies to relieve pain and 15 improve the quality of life of cancer patients. The main types of cancer pain treated with 16 17 acupuncture are breast pain, neuralgia and low back pain, which are commonly characterized by chronic pain. These researchers provide sufficiently compelling evidence 18 for acupuncture in the treatment of breast cancer-related pain. In addition, acupuncture is 19 20 one of the important interventions that can help breast cancer patients improve their pain symptoms after surgery. Numerous experts in Evidence-based Clinical Practice Guidelines 21 22 strongly recommend using acupuncture for the relief of aromatase inhibitor-induced 23 arthralgia in breast cancer patients. Acupuncture is also one of the frontiers and hotspots in the treatment of post-chemotherapy peripheral neuropathy and neuropathic pain. This 24 research is expanding in depth and breadth. 25

26

27 8.7 Neuropathic Pain

Ju et al. (2017) assessed the analgesic efficacy and adverse events of acupuncture 28 treatments for chronic neuropathic pain in adults. Randomized controlled trials (RCTs) 29 with treatment duration of 8 weeks or longer comparing acupuncture (either given alone or 30 in combination with other therapies) with sham acupuncture, other active therapies, or 31 treatment as usual, for neuropathic pain in adults were included in this review. The primary 32 33 outcomes were pain intensity and pain relief. The secondary outcomes were any painrelated outcome indicating some improvement, withdrawals, participants experiencing any 34 adverse event, serious adverse events, and quality of life. Authors included 6 studies 35 involving 462 participants with chronic peripheral neuropathic pain (442 completers (251 36 37 male), mean ages 52 to 63 years). Most studies included a small sample size (fewer than 50 participants per treatment arm) and all studies were at high risk of bias for blinding of 38 39 participants and personnel. Authors concluded that due to the limited data available, there was insufficient evidence to support or refute the use of acupuncture for neuropathic pain 40 41 in general, or for any specific neuropathic pain condition when compared with sham

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acupuncture or other active therapies. Yu et al. (2021) evaluated the clinical efficacy of 1 2 acupuncture through a review and analysis of systematic reviews of acupuncture for the treatment of diabetic peripheral neuropathy. Eighty-eight reviews were retrieved. The 3 inclusion criteria were a published systematic evaluation/meta-analysis/systematic review 4 of acupuncture treatment for diabetic peripheral neuropathy, which included subjects 5 meeting the diagnostic criteria for diabetic peripheral neuropathy, and which compared 6 acupuncture treatment with non-acupuncture treatment. After the inclusion criteria had 7 been applied, 18 reviews were finally included. Authors report that evidence shows that 8 acupuncture improves diabetic peripheral neuropathy and increases nerve conduction 9 velocity. However, the methodological quality of the reviews is generally extremely low, 10 11 and most of the reviews had certain defects, showing that there is still much room for improvement in terms of the methodology and quality of the research reports. 12

13

Ben-Arye et al. (2022) explored the impact of acupuncture with other complementary and 14 integrative medicine (CIM) modalities on chemotherapy-induced peripheral neuropathy 15 (CIPN) and quality of life (OoL) in oncology patients. In this prospective, pragmatic, and 16 17 patient-preference study, patients with CIPN were treated with acupuncture and CIM therapies (intervention group) or standard care alone (controls) for 6 weeks. Patients in the 18 intervention arm were randomized to twice-weekly acupuncture-only (group A) or 19 acupuncture with additional manual-movement or mind-body CIM therapies (group B). 20 Severity of CIPN was assessed with various outcome measures. Of 168 participants, 136 21 underwent the study intervention (group A, 69; group B, 67), with 32 controls. Baseline-22 23 to-6-week assessment scores improved significantly in the intervention arm (vs controls) on FACT-Tax and emotional well-being scores; FACT-TAX scores for hand 24 numbness/tingling and discomfort; and EORTC physical functioning. Intervention groups 25 A and B showed improved FACT-Tax physical well-being, FACT-TAX total score, 26 FACT-TAX feet discomfort, and EORTC pain scores. Authors concluded that 27 acupuncture, with or without CIM modalities, can relieve CIPN-related symptoms during 28 oncology treatment. This is most pronounced for hand numbness, tingling, pain, 29 discomfort, and for physical functioning. 30

31

Pei et al. (2023) performed a systematic review to evaluate whether acupuncture is 32 33 effective for treating chemotherapy-induced peripheral neuropathy (CIPN). Nine studies involving 582 patients were included in this review. Most of the studies exhibited unclear 34 risk of bias because some details were not mentioned. As the clinical heterogeneity was 35 significant, qualitative analysis was performed to describe nerve conduction velocity. 36 37 effective rate for motor neuropathy, pain scores, quality of life and adverse events. Metaanalysis was performed on four studies to analyze the effective rate for sensory neuropathy 38 39 due to inconspicuous heterogeneity. The results indicated that acupuncture may generate a better effect on sensory neuropathy than vitamin B. The efficacy of EA plus glutathione 40 41 (GSH) appeared to be better than that of GSH alone in alleviating sensory neurotoxicity

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and in improving nerve conduction velocity. Acupuncture plus methylcobalamin showed 1 more favorable effects than methylcobalamin alone in relieving neuralgia, restoring nerve 2 conduction velocity and improving quality of life. In terms of pain relief and improved 3 CIPN-specific quality of life, acupuncture plus standard care was better than standard care 4 alone. In terms of pain relief, EA was more effective than usual care. Authors concluded 5 that acupuncture may be effective and safe in the treatment of CIPN according to the 6 analyzed studies. However, more studies with higher methodological quality are warranted 7 in order to be able to draw firmer conclusions. Future rigorous RCTs will be necessary to 8 confirm the effectiveness and safety of acupuncture for CIPN. 9 10

Shi et al. (2023) summarized and evaluated the evidence from current systematic 11 reviews/meta-analyses (SRs/MAs) on the effectiveness of acupuncture treatment for CIPN. 12 This umbrella review includes 9 SRs/MAs, and their methodological quality, risk of bias, 13 reporting quality, and evidence quality were all deemed unsatisfactory. Authors state that 14 their updated meta-analysis suggests that CIPN patients can benefit from acupuncture 15 therapy, as indicated by effectiveness in measures including BPI-SF, VAS, FACT-NTX, 16 17 NRS, SCV, and NCI-CTCAE. Authors concluded that based on the existing evidence, acupuncture is effective and safe for patients with CIPN, as it can significantly improve 18 effective rate, pain symptoms, quality of life, and nerve conduction velocity. However, 19 given the low quality of current evidence, caution should be taken interpreting this 20 21 conclusion.

22

23 **<u>8.8 Musculoskeletal and Pain Disorders of the Extremities</u>**

Green et al. (2008) reviewed the evidence for acupuncture in the treatment of shoulder pain via a Cochrane review. Nine trials of varying quality met the inclusion criteria. Acupuncture was found to improve shoulder function more than placebo at 4 weeks, but this benefit (a 3.53-point difference on a 100 point scale) was no longer considered clinically significant at 4 months. The authors concluded that there was insufficient evidence to either support or refute the use of acupuncture for shoulder pain.

30

Hinman et al. (2014) conducted a randomized clinical trial of acupuncture for knee pain. 31 In total 282 patients, over 50 years of age, with chronic knee pain were randomized into 32 33 one of four groups: No treatment control; Traditional needle acupuncture; Laser acupuncture; Sham laser (very low power). Subjects in the last 3 groups were treated once 34 or twice a week for 12 weeks. Primary outcome measures were knee pain (0-10) and 35 function as measure by the McMaster Universities Osteoarthritis Index (0-68). End points 36 37 were 12 weeks and one year. There was no difference in pain at 12 weeks between needle acupuncture or laser acupuncture and sham laser. There was a small difference between 38 39 needle and laser treatment and the no treatment control at 12 weeks but not at one year. Needle acupuncture resulted in modest improvement in function compared with control at 40 41 12 weeks but was not significantly different from sham and was not maintained at one year.

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1 The authors concluded, "In patients older than 50 years with moderate or severe chronic

- 2 knee pain, neither laser nor needle demonstrate that acupuncture conferred benefit over
- 3 sham for pain or function. Our findings do not support acupuncture for these patients."
- 4

Cox et al. (2016) assessed the effectiveness and safety of acupuncture therapies for 5 musculoskeletal disorders of the extremities. The search revealed 5,180 articles; 15 were 6 included (10 with a low risk of bias, 5 with a high risk of bias). Authors concluded that the 7 evidence for the effectiveness of acupuncture for musculoskeletal disorders of the 8 extremities was inconsistent. Traditional needle acupuncture may be beneficial for CTS 9 and Achilles tendinopathy, but not for nonspecific upper extremity pain and patellofemoral 10 syndrome. Electroacupuncture may be effective for shoulder injuries and may show similar 11 effectiveness to that of night wrist splinting for CTS. The effectiveness of dry needling for 12 plantar fasciitis is equivocal. Leggit (2018) summarized the consensus on acupuncture as 13 a musculoskeletal therapy. Evidence regarding efficacy in the management of 14 musculoskeletal conditions is heterogeneous and subject to several limitations. Despite 15 these limitations, acupuncture consistently has been shown to be more effective than no 16 17 treatment and is relatively safe. For chronic back pain, it is recommended as a first-line noninvasive therapy. For neck pain, acupuncture provides benefits when it is combined 18 with other treatments. 19

20

Babatunde et al. (2021) evaluated the comparative effectiveness of treatment options for 21 relieving pain and improving function in patients with subacromial shoulder conditions 22 23 (SSCs). The review identified 177 eligible trials. Current evidence shows small to moderate effect sizes for most treatment options for SSCs. Six treatments had a high probability of 24 being most effective, in the short term, for pain and function [acupuncture, manual therapy, 25 exercise, exercise plus manual therapy, laser therapy and Microcurrent (MENS) (TENS)], 26 but with low certainty for most treatment options. After accounting for risk of bias, there 27 is evidence of moderate certainty for the comparative effects of exercise on function in 28 patients with SSCs. Future large, high-quality pragmatic randomized trials or meta-29 analyses are needed to better understand whether specific subgroups of patients respond 30 better to some treatments than others. 31

32

33 Fredy et al. (2022) described the role of acupuncture for myofascial pain syndrome (MPS) in interventional pain management. They summarized that acupuncture, combined with 34 other therapies, is effective in reducing pain and improving physical function. Acupuncture 35 can enhance endogenous opioids such as endorphins to relieve pain and enhance the 36 37 healing process. Authors concluded that acupuncture could be considered as one of nonpharmacological options in Interventional Pain Management for MPS. Interventions 38 39 with acupuncture are safe and have minimal side effects when performed by a trained and competent practitioner. 40

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Zhan et al. (2023) assessed the efficacy of acupuncture versus rehabilitation therapy (RT) 1

for post-stroke shoulder pain PSSP. Eighteen studies were included in qualitative synthesis, 2

fifteen (83%) studies with 978 patients were included in meta-analysis (MA) because of 3

- the outcomes of 3 studies were inappropriate. Nine (50%) studies were considered as 4
- moderate to high quality. The effectiveness of acupuncture for patients with PSSP was 5
- similar to that of RT on shoulder pain alleviation, improvement of upper limb motor 6
- function, and ADL. Two (11%) studied reported no acupuncture-related AEs, and fourteen 7
- (78%) studies did not mention AEs resulting from acupuncture. Authors concluded that 8
- 9 acupuncture is similar to RT in relieving shoulder pain, improving upper limb motor function and ADL in patients with PSSP. Either acupuncture or RT might be the optimal
- 10

treatment of PSSP. More well-designed RCTs of this topic are needed in the future. 11

12

Luan et al. (2023) investigated the efficacy of acupuncture or similar needling therapy on 13 pain, proprioception, balance, and self-reported function in individuals with chronic ankle 14 15 instability (CAI). Twelve trials (n = 571) were found, of which the final meta-analysis was conducted with eight. Different studies employ varying treatments, including specific 16 needle types, techniques, and therapeutic frameworks. Compared to control without 17 acupuncture or similar needling therapy, acupuncture or similar needling intervention 18 resulted in improved pain, proprioception, balance, and self-reported function 19 (Cumberland Ankle Instability Tool); American Orthopedic Foot and Ankle; Foot and 20 21 Ankle Ability Measure: activities of daily living for individuals with CAI. Authors concluded that the available evidence suggests that acupuncture or similar needling therapy 22 may improve pain, proprioception, balance, and self-reported function in individuals with 23 24 CAI, but more trials are needed to verify these findings. Furthermore, various needles and 25 techniques used in different studies have resulted in methodologic limitations that should be addressed in the future. 26

27

8.9 Nausea and Vomiting 28

Ezzo et al. (2006) conducted a Cochrane Review on the effects of acupuncture point 29 stimulation for chemotherapy-induced nausea and vomiting. Eleven trials met the inclusion 30 31 criteria. Different acupuncture modalities were used, and overall, acupuncture-point stimulation by all modalities reduced the incidence of acute vomiting, but not acute or 32 delayed nausea severity compared to control. Electro-acupuncture reduced acute nausea, 33 34 but manual acupuncture did not. Acupressure reduced acute nausea severity, but not acute vomiting or delayed nausea. Non-invasive electro-stimulation showed no benefits for any 35 outcome. A more recent update of this review has been withdrawn for failure to complete 36 37 on time.

- 38
- A 2009 Cochrane Review (Lee and Fan, 2009) evaluated studies of the stimulation of wrist 39 acupuncture point P6 for the prevention of postoperative nausea and vomiting. Forty trials 40

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1 were identified with 4,858 individual subjects. Overall, acupuncture was found to be

2 equally effective as anti-emetic drugs. This was true for both adults and children. It was

- also found equally effective whether using invasive needles or non-invasive stimulation of
 the acupuncture point.
- 5

6 Garcia et al. (2013) conducted a systematic review of the use of acupuncture in cancer care 7 for the relief of multiple different symptoms. They identified 41 RCTs that met inclusion 8 criteria. In total, eight different symptoms were evaluated: pain, nausea, hot flashes, 9 fatigue, radiation-induced xerostomia, prolonged postoperative ileus, anxiety/mood 10 disorders, and sleep disturbance. They found evidence that acupuncture was an effective 11 treatment for nausea and vomiting, but the evidence was inconclusive or negative for the 12 remaining symptoms.

13

Lee et al. (2013) conducted a clinical trial testing the effectiveness acupuncture to prevent opioid-induced nausea. They randomized 178 patients to one of three groups: 1. Preoperative electro-acupuncture at P6; 2. Post-operative electro-acupuncture at P6; 3. A notreatment control. The incidence of nausea and vomiting was significantly lower in the preoperative group than in the control group. Vomiting was also lower in the pre-operative group than in the post-operative group. Overall, pre-operative, but not post-operative electro-acupuncture was more effective than the control group.

21

22 The effectiveness of acupuncture in preventing chemotherapy-related nausea and vomiting 23 in patients with gynecological cancers was tested in a 2014 randomized clinical trial (Rithirangsriroj et al., 2014). Seventy patients were randomized to either acupuncture at P6 24 prior to chemotherapy infusion, or to the anti-emetic drug ondansetron. All patients 25 received dexamethasone orally twice daily. The acupuncture group had a statistically 26 significantly higher rate of complete absence of nausea and vomiting; 52.6% compared to 27 35.7% in the medication group. Overall, the acupuncture group had lower rates of nausea, 28 less severe nausea, and fewer side effects than the ondansetron group. 29

30

A second Cochrane Review (Matthews et al., 2015) evaluated a range of treatments, including acupuncture to treat nausea and vomiting in early pregnancy. Overall, the reviewers found that the low quality of evidence precluded any definitive conclusions. In addition, they noted that, "Acupuncture (P6 or traditional) showed no significant benefit to women in pregnancy."

36

Shen et al. (2015) completed a trial of 103 liver cancer patients tested the effectiveness of acupuncture at point K1 to prevent chemotherapy induced nausea and vomiting. Fifty-one patients were randomized to receive electrostimulation at K1 acupoint for 20 minutes prior to the first administration of chemotherapy and then daily for the next five days. They also received anti-emetic drugs. The control group underwent the same regimen except that they

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1 received electrostimulation at a presumed placebo point in their heel. Outcome measures

2 included the rate, intensity and duration of nausea and frequency of vomiting. There were

- 3 no significant differences between the two groups on any of the outcome measures.
- 4

5 Zhang et al. (2015) performed a meta-analysis on the use of wristband at acupuncture 6 points for postoperative nausea and vomiting. They found a significant reduction in post-7 operative vomiting through the use of the wrist band compared to controls. However, they 8 found no difference in the rates of nausea between wrist band and control.

9

Lu et al. (2021) explored acupuncture's clinical efficacy in treating hyperemesis 10 gravidarum HG. A total of 16 trials covering 1,043 gravidas were included. Compared with 11 the conventional treatment, acupuncture had a significantly higher effective rate, a higher 12 conversion rate of urine ketone, an improvement rate of nausea and vomiting, and a 13 relatively higher improvement rate of food intake. Acupuncture also shortened 14 hospitalization time and manifested with a lower pregnancy termination rate and fewer 15 adverse events. Nevertheless, no statistical variation in the improvement of nausea 16 17 intensity, vomiting episodes, and lassitude symptom, recurrence rate, and serum potassium was observed. Authors concluded suggested that acupuncture was effective in treating HG. 18 However, as the potential inferior quality and underlying publication bias were found in 19 the included studies, there is a need for more superior-quality RCTs to examine their 20 effectiveness and safety. 21

22

23 Mora et al. (2022) performed a systematic review and meta-analysis about the use and effect of complementary and alternative medicine (CAM) modalities to treat adverse 24 effects of conventional cancer treatment among children and young adults. Twenty RCTs 25 comprising 1,069 participants were included in this review. The included studies 26 investigated acupuncture, mind-body therapies, supplements, and vitamins for 27 chemotherapy-induced nausea and vomiting (CINV), oral mucositis, and anxiety among 28 children and young adults who underwent conventional cancer treatment. Seven studies 29 (315 participants) were included in the meta-analysis. The overall effect of CAM 30 (including acupuncture and hypnosis only) on chemotherapy-induced nausea and/or 31 vomiting and controls was statistically significant. There was a significant difference 32 33 between acupuncture and controls (n = 5) for intensity and/or episodes of CINV. Authors concluded that current evidence from this meta-analysis of randomized controlled trials 34 shows that CAM, including acupuncture and hypnosis only, is effective in reducing 35 chemotherapy-induced nausea and vomiting in children and young adults. More rigorous 36 37 trials and long-term effects should be investigated if acupuncture and hypnosis are to be recommended for clinical use. 38

- 39 40
 - Yan et al. (2023) assessed the effectiveness and safety of acupuncture for the prevention
- 41 of chemotherapy-induced nausea and vomiting (CINV), with specific attention on

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exploring sources of between-study variation in treatment effects. Thirty-eight RCTs with 1 a total of 2503 patients were evaluated. Acupuncture in addition to usual care (UC) may 2 increase the complete control of acute vomiting and delayed vomiting when compared with 3 UC only. No effects were found for all other review outcomes. The certainty of evidence 4 was generally low or very low. Authors concluded that acupuncture in addition to usual 5 care may increase the complete control of chemotherapy-induced acute vomiting and 6 delayed vomiting, but the certainty of evidence was very low. Well-designed RCTs with 7 larger sample sizes, standardized treatment regimens, and core outcome measures are 8 9 needed. 10 Tan et al. (2023) performed a meta-analysis to assess the improvement provided by 11 complementary and alternative medicine (CAM) therapies for nausea and vomiting during 12 pregnancy (NVP). Thirty-three RCTs were included in this study. Specific to acupuncture 13 as CAM, acupuncture treatment was superior to conventional medicine; (low-quality 14 evidence). 15 16 17 References Abe H, Inoue R, Tsuchida R, et al. Efficacy of treatments for pain and numbness in cancer 18 survivors: a systematic review and meta-analysis. Ann Palliat Med. 2022;11(12):3674-19 20 3696. doi:10.21037/apm-22-420 21 22 American Medical Association. (current year). Current Procedural Terminology (CPT) 23 *Current year* (rev. ed.). Chicago: AMA. 24 Atalay SG, Durmus A, Gezginaslan Ö. The Effect of Acupuncture and Physiotherapy on 25 Patients with Knee Osteoarthritis: A Randomized Controlled Study. Pain Physician. 26 2021;24(3):E269-E278. 27 28 Babatunde OO, Ensor J, Littlewood C, et al. Comparative effectiveness of treatment 29 options for subacromial shoulder conditions: a systematic review and network meta-30 analysis. Ther Adv Musculoskelet Dis. 2021;13:1759720X211037530. Published 2021 31 Sep 9. 32 33 Bannuru, R. R., McAlindon, T. E., Sullivan, M. C., Wong, J. B., Kent, D. M., & Schmid, 34 C. H. (2015). Effectiveness and Implications of Alternative Placebo Treatments: A 35 Systematic Review and Network Meta-analysis of Osteoarthritis Trials. Annals of 36 37 internal medicine, 163(5), 365-372. https://doi.org/10.7326/M15-0623 38 39 Baroncini A, Maffulli N, Eschweiler J, Molsberger F, Klimuch A, Migliorini F. Acupuncture in chronic aspecific low back pain: a Bayesian network meta-analysis. J 40 41 Orthop Surg Res. 2022;17(1):319. Published 2022 Jun 20.

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CPG 264 Revision 19 – S Acupuncture Services Medical Policy/Guideline **Revised – October 17, 2024** To CQT for review 08/12/2024 CQT reviewed 08/12/2024 To MA-UMC for review 09/30/2024 MA-UMC reviewed 09/30/2024 To QIC for review and approval 10/01/2024 QIC reviewed and approved 10/01/2024 To QOC for review and approval 10/17/2024 QOC reviewed and approved 10/17/2024

1	Ben-Arye E, Hausner D, Samuels N, et al. Impact of acupuncture and integrative therapies
2	controlled trial Cancer 2022:128(20):36/1-3652
1	controlled that. Cancel: $2022,120(20).50+1-5052$.
+ 5	Busse IW Casassus R Carrasco-Labra A Durham I Mock D Zakrzewska IM Palmer C
6	Samer CF Coen M Guevremont B Honne T Guvatt GH Crandon HN Yao I
7	Sadeghirad B. Vandvik PO. Siemieniuk RAC, Lytyyn L. Hunskaar BS, Agoritsas T.
8	Management of chronic pain associated with temporomandibular disorders: a clinical
9	practice guideline. BMJ. 2023 Dec 15:383:e076227.
10	F
11	Casimiro, L., Barnsley, L., Brosseau, L., Milne, S., Robinson, V. A., Tugwell, P., & Wells,
12	G. (2005). Acupuncture and electroacupuncture for the treatment of rheumatoid
13	arthritis. The Cochrane database of systematic reviews, (4), CD003788.
14	https://doi.org/10.1002/14651858.CD003788.pub2
15	
16	Centers for Medicaid & Medicare Services (CMS) National Coverage Determinations
17	(NCDs). NCD 30.3.3 Acupuncture for Chronic Lower Back Pain (cLBP). Retrieved on
18	March 17, 2022 from https://www.cms.gov/medicare-coverage-database/details/ncd-
19	details.aspx?NCDId=373
20	
21	Centers for Medicaid & Medicare Services (CMS) National Coverage Determinations
22	(NCDs). (2020). Acupuncture. NCD 30.3. Retrieved on March 17, 2022 from
23	https://www.cms.gov/medicare-coverage-database/details/ncd-
24	details.aspx?NCDId=11&ncdver=1&bc=AgAAQAAAAAAAAA%3D%3D&
25	
26	Centers for Medicaid & Medicare Services (CMS) National Coverage Determinations
27	(NCDs). NCD 30.3.1 Acupuncture for Fibromyalgia. Retrieved March 17, 2022 from
28	https://www.cms.gov/medicare-coverage-database/details/ncd-
29	details.aspx?NCDId=283
30 21	Contars for Madiavid & Madiavra Samiaas (CMS) National Covarage Determinations
31 22	(NCDs) NCD 20.2.2.4 supuncture for Ostoosethritis Detrioved March 17, 2022 from
32 22	https://www.cms.gov/medicare.coverage.database/details/ned
33 34	details aspy?NCDId=284&ncdver=1&DocID=30.3.2&SearchType=Advanced&hc=I
35	AAABAAAAAA
36	
37	Centers for Medicaid & Medicare Services (CMS) Decision Memo for Acupuncture for
38	Chronic Low Back Pain (CAG-00452N. Retrieved on March 17, 2022 from
39	https://www.cms.gov/medicare-coverage-database/details/nca-decision-
40	memo.aspx?NCAId=295

1	Centers for Medicare & Medicaid Services (CMS). (2024). CMS framework for health
2	equity 2022-2032. Retrieved July 9, 2024 from https://www.cms.gov/pillar/health-
3	equity#:~:text=To%20CMS%2C%20health%20equity%20means,preferred%20langu
4	age% 2C% 20or% 20other% 20 factors.
5	
6	Chen J, Guo H, Pan J, Li H, Wang Y, Liu Z, Xie Y, Jin S. Efficacy of acupuncture
7	combined with active exercise training in improving pain and function of knee
8	osteoarthritis individuals: a systematic review and meta-analysis. J Orthop Surg Res.
9	2023 Dec 2;18(1):921.
10	
11	Chen, J., Tu, Q., Miao, S., Zhou, Z., & Hu, S. (2020). Transcutaneous electrical acupoint
12	stimulation for preventing postoperative nausea and vomiting after general anesthesia:
13	A meta-analysis of randomized controlled trials. International journal of surgery
14	(London, England), 73, 57-64. https://doi.org/10.1016/j.ijsu.2019.10.036
15	
16	Cherkin, D. C., Sherman, K. J., Deyo, R. A., & Shekell, P. G. (2003). A review of the
17	evidence for the effectiveness, safety, and cost of acupuncture, massage therapy, and
18	spinal manipulation for back pain. Annals of Internal Medicine, 138(11), 898-906.

Cho, Y. J., Song, Y. K., Cha, Y. Y., Shin, B. C., Shin, I. H., Park, H. J., Lee, H. S., Kim,
K. W., Cho, J. H., Chung, W. S., Lee, J. H., & Song, M. Y. (2013). Acupuncture for
chronic low back pain: a multicenter, randomized, patient-assessor blind, shamcontrolled clinical trial. *Spine*, *38*(7), 549–557.
https://doi.org/10.1097/BRS.0b013e318275e601

Chou, R., Deyo, R., Friedly, J., Skelly, A., Hashimoto, R., Weimer, M., Fu, R., Dana, T.,
Kraegel, P., Griffin, J., Grusing, S., & Brodt, E. D. (2017). Nonpharmacologic
Therapies for Low Back Pain: A Systematic Review for an American College of
Physicians Clinical Practice Guideline. *Annals of internal medicine*, *166*(7), 493–505.
https://doi.org/10.7326/M16-2459

Chou R, Deyo R, Friedly J, Skelly A, Hashimoto R, Weimer M, Fu R, Dana T, Kraegel P,
 Griffin J, Grusing S, Brodt E. Noninvasive Treatments for Low Back Pain.
 Comparative Effectiveness Review No. 169. (Prepared by the Pacific Northwest
 Evidence-based Practice Center under Contract No. 290-2012-00014-I.) AHRQ

Chou R and Hoyt Huffman LH. Nonpharmacologic therapies for acute and chronic low
back pain: A review of the evidence for an American Pain Society/American College
of Physicians Clinical Practice Guideline. Annals of Internal Medicine.
2007;147(7):492-504.

19

25

31

Page 78 of 90

1	Chou R, Qaseem A, Snow V, Casey D, Cross JT Jr, Shekelle P, Owens DK; Clinical
2	Efficacy Assessment Subcommittee of the American College of Physicians; American
3	College of Physicians; American Pain Society Low Back Pain Guidelines Panel.
4	Diagnosis and treatment of low back pain: a joint clinical practice guideline from the
5	American College of Physicians and the American Pain Society. Ann Intern Med. 2007
6	Oct 2;147(7):478-91.
7	
8	Cox, J., Varatharajan, S., Côté, P., & Optima Collaboration (2016). Effectiveness of
9	Acupuncture Therapies to Manage Musculoskeletal Disorders of the Extremities: A
10	Systematic Review. The Journal of orthopaedic and sports physical therapy, 46(6),
11	409-429. https://doi.org/10.2519/jospt.2016.6270
12	
13	Crawford PF 3rd, Moss DA, Hawks MK, Snyder MJ. Integrative Medicine: Acupuncture.
14	FP Essent. 2021;505:18-22.
15	
16	de Sousa TR, Mattos S, Marcon G, Furtado T, Duarte da Silva M. Acupuncture techniques
17	and acupoints used in individuals under chemotherapy or radiotherapy treatment of
18	cancer: A systematic review. J Clin Nurs. 2023 Oct;32(19-20):6917-6933.
19	
20	Deare, J. C., Zheng, Z., Xue, C. C., Liu, J. P., Shang, J., Scott, S. W., & Littlejohn, G.
21	(2013). Acupuncture for treating fibromyalgia. The Cochrane database of systematic
22	reviews, 2013(5), CD007070. https://doi.org/10.1002/14651858.CD007070.pub2
23	
24	Deng, T. (1999). Practical Diagnosis in Traditional Chinese Medicine. Churchill
25	Livingstone.
26	
27	Di Francesco F, Minervini G, Siurkel Y, Cicciù M, Lanza A. Efficacy of acupuncture and
28	laser acupuncture in temporomandibular disorders: a systematic review and meta-
29	analysis of randomized controlled trials. BMC Oral Health. 2024 Feb 3;24(1):174.
30	
31	Epstein AS, Liou KT, Romero SAD, Baser RE, Wong G, Xiao H, Mo Z, Walker D,
32	MacLeod J, Li Q, Barton-Burke M, Deng GE, Panageas KS, Farrar JT, Mao JJ.
33	Acupuncture vs Massage for Pain in Patients Living With Advanced Cancer: The
34	IMPACT Randomized Clinical Trial. JAMA Netw Open. 2023 Nov 1;6(11):e2342482.
35	
36	Ezzo, J. M., Richardson, M. A., Vickers, A., Allen, C., Dibble, S. L., Issell, B. F., Lao, L.,
37	Pearl, M., Ramirez, G., Roscoe, J., Shen, J., Shivnan, J. C., Streitberger, K., Treish, I.,
38	& Zhang, G. (2006). Acupuncture-point stimulation for chemotherapy-induced nausea
39	or vomiting. The Cochrane database of systematic reviews, (2), CD002285.
40	https://doi.org/10.1002/14651858.CD002285.pub2

1 2 3	Ezzo J, Berman B, Hadhazy VA, Jadad AR, Lao L, Singh BB. Is acupuncture effective for the treatment of chronic pain? A systematic review. Pain. 2000 Jun;86(3):217-25.
3	Earag A. M. Malacarna, A. Pagni, S. E. & Malanay, C. E. (2020). The affectiveness of
4 5	acupuncture in the management of persistent regional myofascial head and neck pain:
5	Δ systematic review and meta-analysis Complementary therapies in medicine 40
7	102297 https://doi.org/10.1016/j.ctim.2019.102297
8	1022) / https://doi.org/10.1010/j.edini.2019.1022) /
9	Feise RJ. Mathieson S. Kessler RS. Witenko C. Zaina F. Brown BT. Benefits and harms
10	of treatments for chronic nonspecific low back pain without radiculopathy: systematic
11	review and meta-analysis. Spine J. 2023 May;23(5):629-641.
12	
13	Fredy DM, Harpin D, Mihardja H. The role of acupuncture for myofascial pain syndrome
14	(MPS) in interventional pain management. J Complement Integr Med. 2022;19(2):213-
15	217. Published 2022 Feb 17.
16	
17	Frenkel M, David A, Sapire K, Hausner D. Complementary and Integrative Medicine in
18	Pancreatic Cancer. Curr Oncol Rep. 2023 Mar;25(3):231-242.
19	
20	Fu, C., Wu, T., Shu, Q., Song, A., & Jiao, Y. (2020). Acupuncture therapy on postoperative
21	nausea and vomiting in abdominal operation: A Bayesian network meta
22	analysis. <i>Medicine</i> , 99(23), e20301. https://doi.org/10.109//MD.000000000020301
23	Furlan A. D. van Tulder, M. Cherkin, D. Tsukavama H. Lao, I. Koes, R. & Berman
24 25	B (2005) Acupuncture and dry-needling for low back pain: an undated systematic
25	review within the framework of the cochrane collaboration <i>Spine</i> 30(8) 944–963
27	https://doi org/10 1097/01 brs 0000158941 21571 01
28	
29	Furlan, A. D., Yazdi, F., Tsertsvadze, A., Gross, A., Van Tulder, M., Santaguida, L.,
30	Cherkin, D., Gagnier, J., Ammendolia, C., Ansari, M. T., Ostermann, T., Dryden, T.,
31	Doucette, S., Skidmore, B., Daniel, R., Tsouros, S., Weeks, L., & Galipeau, J. (2010).
32	Complementary and alternative therapies for back pain II. Evidence report/technology
33	assessment, (194), 1–764.
34	
35	Garcia, M. K., McQuade, J., Haddad, R., Patel, S., Lee, R., Yang, P., Palmer, J. L., &
36	Cohen, L. (2013). Systematic review of acupuncture in cancer care: a synthesis of the
37	evidence. Journal of clinical oncology : official journal of the American Society of
38	Clinical Oncology, 31(7), 952–960. https://doi.org/10.1200/JCO.2012.43.5818

Page 80 of 90

1 2 3	Ge L, Wang Q, He Y, et al. Acupuncture for cancer pain: an evidence-based clinical practice guideline. Chin Med. 2022;17(1):8. Published 2022 Jan 5. doi:10.1186/s13020-021-00558-4
4 5 6 7 8 9	Gibbs AJ, Gray B, Wallis JA, Taylor NF, Kemp JL, Hunter DJ, Barton CJ. Recommendations for the management of hip and knee osteoarthritis: A systematic review of clinical practice guidelines. Osteoarthritis Cartilage. 2023 Oct;31(10):1280-1292.
10 11 12 13	Green, S., Buchbinder, R., Barnsley, L., Hall, S., White, M., Smidt, N., & Assendelft, W. (2002). Acupuncture for lateral elbow pain. <i>The Cochrane database of systematic</i> <i>reviews</i> , (1), CD003527. https://doi.org/10.1002/14651858.CD003527
14 15 16 17	Green, S., Buchbinder, R., & Hetrick, S. (2005). Acupuncture for shoulder pain. <i>The</i> <i>Cochrane</i> database of systematic reviews, (2), CD005319. https://doi.org/10.1002/14651858.CD005319
18 19 20 21 22 23	 Griffiths, J. D., Gyte, G. M., Popham, P. A., Williams, K., Paranjothy, S., Broughton, H. K., Brown, H. C., & Thomas, J. (2021). Interventions for preventing nausea and vomiting in women undergoing regional anaesthesia for caesarean section. <i>The Cochrane database of systematic reviews</i>, 5(5), CD007579. https://doi.org/10.1002/14651858.CD007579.pub3
24 25 26 27 28	Hershman DL, Unger JM, Greenlee H, et al. Comparison of Acupuncture vs Sham Acupuncture or Waiting List Control in the Treatment of Aromatase Inhibitor-Related Joint Pain: A Randomized Clinical Trial. JAMA Netw Open. 2022;5(11):e2241720. Published 2022 Nov 1
29 30 31 32 33	 Hinman, R. S., McCrory, P., Pirotta, M., Relf, I., Forbes, A., Crossley, K. M., Williamson, E., Kyriakides, M., Novy, K., Metcalf, B. R., Harris, A., Reddy, P., Conaghan, P. G., & Bennell, K. L. (2014). Acupuncture for chronic knee pain: a randomized clinical trial. <i>JAMA</i>, <i>312</i>(13), 1313–1322. https://doi.org/10.1001/jama.2014.12660
34 35 36 37	Hopton, A., & MacPherson, H. (2010). Acupuncture for chronic pain: is acupuncture more than an effective placebo? A systematic review of pooled data from meta- analyses. <i>Pain practice : the official journal of World Institute of Pain</i> , 10(2), 94–102. https://doi.org/10.1111/j.1533-2500.2009.00337.x
38 39 40 41	Huang JF, Zheng XQ, Chen D, et al. Can Acupuncture Improve Chronic Spinal Pain? A Systematic Review and Meta-Analysis. Global Spine J. 2021;11(8):1248-1265. doi:10.1177/2192568220962440

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CPG 264 Revision 19 – S Acupuncture Services Medical Policy/Guideline **Revised – October 17, 2024** To CQT for review 08/12/2024 CQT reviewed 08/12/2024 To MA-UMC for review 09/30/2024 MA-UMC reviewed 09/30/2024 To QIC for review and approval 10/01/2024 QIC reviewed and approved 10/01/2024 To QOC for review and approvel 10/17/2024 QOC reviewed and approved 10/17/2024

1	Jin, Y., Wang, Y., Zhang, J., Xiao, X., & Zhang, Q. (2020). Efficacy and Safety of
2	Acupuncture against Chemotherapy-Induced Peripheral Neuropathy: A Systematic
3	Review and Meta-Analysis. Evidence-based complementary and alternative medicine:
4	eCAM, 2020, 8875433. https://doi.org/10.1155/2020/8875433
5	
6	Ju, Z. Y., Wang, K., Cui, H. S., Yao, Y., Liu, S. M., Zhou, J., Chen, T. Y., & Xia, J. (2017).
7	Acupuncture for neuropathic pain in adults. The Cochrane database of systematic
8	reviews, 12(12), CD012057. https://doi.org/10.1002/14651858.CD012057.pub2
9	
10	Kim, T. H., Lee, M. S., Kim, K. H., Kang, J. W., Choi, T. Y., & Ernst, E. (2014).
11	Acupuncture for treating acute ankle sprains in adults. The Cochrane database of
12	systematic reviews, (6), CD009065.
13	https://doi.org/10.1002/14651858.CD009065.pub2
14	
15	Kwak SG, Kwon JB, Seo YW, Choi WK. The effectiveness of acupuncture as an
16	adjunctive therapy to oral pharmacological medication in patient with knee
17	osteoarthritis: A systematic review and meta-analysis. Medicine (Baltimore). 2023 Mar
18	17;102(11):e33262.
19	
20	Lam, M., Galvin, R., & Curry, P. (2013). Effectiveness of acupuncture for nonspecific
21	chronic low back pain: a systematic review and meta-analysis. Spine, 38(24), 2124-
22	2138. https://doi.org/10.1097/01.brs.0000435025.65564.b7
23	
24	Lee, A., & Fan, L. T. (2009). Stimulation of the wrist acupuncture point P6 for preventing
25	postoperative nausea and vomiting. The Cochrane database of systematic reviews, (2),
26	CD003281. https://doi.org/10.1002/14651858.CD003281.pub3
27	
28	Lee, A., Chan, S. K., & Fan, L. T. (2015). Stimulation of the wrist acupuncture point PC6
29	for preventing postoperative nausea and vomiting. The Cochrane database of
30	systematic reviews, 2015(11), CD003281.
31	https://doi.org/10.1002/14651858.CD003281.pub4
32	
33	Lee, S., Lee, M. S., Choi, D. H., & Lee, S. K. (2013). Electroacupuncture on PC6 prevents
34	opioid-induced nausea and vomiting after laparoscopic surgery. Chinese journal of
35	integrative medicine, 19(4), 277-281. https://doi.org/10.1007/s11655-013-1425-7
36	
37	Lee SH, Park SY, Heo I, Hwang EH, Shin BC, Hwang MS. Efficacy of acupuncture for
38	whiplash injury: a systematic review and meta-analysis. BMJ Open. 2024 Jan
39	17;14(1):e077700.

Page 82 of 90

- Leggit J. C. (2018). Musculoskeletal Therapies: Acupuncture, Dry Needling, Cupping. FP 1 2 essentials, 470, 27-31.
- 3 4

6

7

8

- Li, Q. W., Yu, M. W., Wang, X. M., Yang, G. W., Wang, H., Zhang, C. X., Xue, N., Xu, W. R., Zhang, Y., Cheng, P. Y., Yang, L., Fu, Q., & Yang, Z. (2020). Efficacy of acupuncture in the prevention and treatment of chemotherapy-induced nausea and vomiting in patients with advanced cancer: a multi-center, single-blind, randomized, sham-controlled clinical research. Chinese medicine, 15, 57. https://doi.org/10.1186/s13020-020-00333-x
- 9 10

15

19

- Li, Y. X., Yuan, S. E., Jiang, J. Q., Li, H., & Wang, Y. J. (2020). Systematic review and 11 meta-analysis of effects of acupuncture on pain and function in non-specific low back 12 pain. Acupuncture in medicine : journal of the British Medical Acupuncture 13 Society, 38(4), 235-243. https://doi.org/10.1136/acupmed-2017-011622 14
- Li H, Schlaeger JM, Jang MK, et al. Acupuncture Improves Multiple Treatment-Related 16 17 Symptoms in Breast Cancer Survivors: A Systematic Review and Meta-Analysis. J Altern Complement Med. 2021;27(12):1084-1097. doi:10.1089/acm.2021.0133 18
- 20 Lin X, Li F, Lu H, Zhu M, Peng TZ. Acupuncturing of myofascial pain trigger points for the treatment of knee osteoarthritis: A systematic review and meta-analysis. Medicine 21 22 (Baltimore). 2022;101(8):e28838.
- 23 Linde, K., Allais, G., Brinkhaus, B., Fei, Y., Mehring, M., Shin, B. C., Vickers, A., & 24 White, A. R. (2016). Acupuncture for the prevention of tension-type headache. The 25 Cochrane database systematic reviews, 4, CD007587. 26 of https://doi.org/10.1002/14651858.CD007587.pub2 27
- 28

Linde, K., Allais, G., Brinkhaus, B., Manheimer, E., Vickers, A., & White, A. R. (2009). 29 Acupuncture for migraine prophylaxis. The Cochrane database of systematic reviews, 30 (1), CD001218. https://doi.org/10.1002/14651858.CD001218.pub2Linde, K., Allais, 31 G., Brinkhaus, B., Manheimer, E., Vickers, A., & White, A. R. (2009). Acupuncture 32 33 for tension-type headache. The Cochrane database of systematic reviews, (1), CD007587. https://doi.org/10.1002/14651858.CD007587 34

- 35 Liu, L., Skinner, M., McDonough, S., Mabire, L., & Baxter, G. D. (2015). Acupuncture for 36 37 low back pain: an overview of systematic reviews. Evidence-based complementary and alternative medicine : eCAM, 2015, 328196. https://doi.org/10.1155/2015/328196 38
- 39
- 40
- Lu H, Zheng C, Zhong Y, Cheng L, Zhou Y. Effectiveness of Acupuncture in the Treatment 41 of Hyperemesis Gravidarum: A Systematic Review and Meta-Analysis. Evid Based

CPG 264 Revision 19 - S Acupuncture Services Medical Policy/Guideline Revised – October 17, 2024 To CQT for review 08/12/2024 CQT reviewed 08/12/2024 To MA-UMC for review 09/30/2024 MA-UMC reviewed 09/30/2024 To QIC for review and approval 10/01/2024 QIC reviewed and approved 10/01/2024 To QOC for review and approval 10/17/2024 QOC reviewed and approved 10/17/2024

Page 83 of 90

1 2 3	Complement Alternat Med. 2021;2021:2731446. Published 2021 Jul 27. doi:10.1155/2021/2731446
4	Luan L, Zhu M, Adams R, Witchalls J, Pranata A, Han J. Effects of acupuncture or similar
5	needling therapy on pain, proprioception, balance, and self-reported function in
6	individuals with chronic ankle instability: A systematic review and meta-analysis.
7	Complement Ther Med. 2023 Oct;77:102983.
8	
9	Mao JJ, Ismaila N, Bao T, et al. Integrative Medicine for Pain Management in Oncology:
10	Society for Integrative Oncology-ASCO Guideline. J Clin Oncol. 2022;40(34):3998-
11	4024.
12	
13 14	Maciocia, G. (2022). The Practice of Chinese Medicine (3 rd ed.). Elsevier.
15	MacPherson, H., Maschino, A. C., Lewith, G., Foster, N. E., Witt, C. M., Vickers, A. J., &
16	Acupuncture Trialists' Collaboration (2013). Characteristics of acupuncture treatment
17	associated with outcome: an individual patient meta-analysis of 17.922 patients with
18	chronic pain in randomised controlled trials. <i>PloS one</i> , 8(10), e77438.
19	https://doi.org/10.1371/journal.pone.0077438
20	
21	MacPherson, H., Vertosick, E. A., Foster, N. E., Lewith, G., Linde, K., Sherman, K. J.,
22	Witt, C. M., Vickers, A. J., & Acupuncture Trialists' Collaboration (2017). The
23	persistence of the effects of acupuncture after a course of treatment: a meta-analysis of
24	patients with chronic pain. Pain, 158(5), 784–793.
25	https://doi.org/10.1097/j.pain.000000000000747
26	
27	Madsen, M. V., Gøtzsche, P. C., & Hróbjartsson, A. (2009). Acupuncture treatment for
28	pain: systematic review of randomised clinical trials with acupuncture, placebo
29	acupuncture, and no acupuncture groups. BMJ (Clinical research ed.), 338, a3115.
30	https://doi.org/10.1136/bmj.a3115
31	
32	Manheimer, E., Cheng, K., Linde, K., Lao, L., Yoo, J., Wieland, S., van der Windt, D. A.,
33	Berman, B. M., & Bouter, L. M. (2010). Acupuncture for peripheral joint
34	osteoarthritis. The Cochrane database of systematic reviews, (1), CD001977.
35	https://doi.org/10.1002/14651858.CD001977.pub2
36	
37	Matthews, A., Haas, D. M., O'Mathúna, D. P., & Dowswell, T. (2015). Interventions for
38	nausea and vomiting in early pregnancy. The Cochrane database of systematic
39	<i>reviews</i> , 2015(9), CD007575. https://doi.org/10.1002/14651858.CD007575.pub4

Page 84 of 90

1	Mora DC, OvervågG, JongMC, et al. Complementary and alternative medicine modalities
2	used to treat adverse effects of anti-cancer treatment among children and young adults:
3	a systematic review and meta-analysis of randomized controlled trials. BMC
4	Complement Med Ther. 2022;22(1):97. Published 2022 Apr 2.
5	My L Evelop AD Low WV Hay MV Ning 7 Loo L Agy pup styre for shronig poppositio
6 7	Mu J, Furian AD, Lam W I, Hsu W I, Ning Z, Lao L. Acupuncture for chronic nonspecific low back pain. Cochrono Database Syst Pay. 2020;12(12);CD012814. Published 2020.
/ 0	Dec 11 doi:10.1002/14651858 CD013814
9	Dec 11. doi.10.1002/14051058.eD015814
10	National Guideline Centre (UK). Evidence review for acupuncture for chronic primary
11	pain: Chronic pain (primary and secondary) in over 16s: assessment of all chronic pain
12	and management of chronic primary pain. London: National Institute for Health and
13	Care Excellence (NICE); April 2021.
14	
15	Nielsen A, Dusek JA, Taylor-Swanson L, Tick H. Acupuncture Therapy as an Evidence-
16	Based Nonpharmacologic Strategy for Comprehensive Acute Pain Care: The
17	Academic Consortium Pain Task Force White Paper Update. Pain Med.
18	2022;23(9):1582-1612.
19	
20	O'Connor, J., Bensky, D. (1996). Acupuncture: A Comprehensive Text. Eastland Press.
21	
22	Office of Disease Prevention and Health Promotion. (n.d.). Social Determinants of Health.
23	Healthy People 2020. U.S. Department of Health and Human Services. Retrieved July
24	9, 2024 from https://nealtn.gov/nealtnypeople/priority-areas/social-determinants-
25 26	neatur#.~.text=Sociat%20determinants%2001%20neatur%20.
27	Paley CA. Johnson MI, Tashani OA, Bagnall AM, Acupuncture for cancer pain in adults.
28	Cochrane Database Syst Rev. 2011 Jan 19;(1):CD007753.
29	
30	Paley, C. A., Johnson, M. I., Tashani, O. A., & Bagnall, A. M. (2015). Acupuncture for
31	cancer pain in adults. The Cochrane database of systematic reviews, 2015(10),
32	CD007753. https://doi.org/10.1002/14651858.CD007753.pub3
33	
34	Park EY, Cho JH, Lee SH, Kim KW, Ha IH, Lee YJ. Is acupuncture an effective treatment
35	for temporomandibular disorder?: A systematic review and meta-analysis of
36	randomized controlled trials. Medicine (Baltimore). 2023 Sep 22;102(38):e34950.
37	
38	Pei LA, YI Y, Guo J, Chen L, Zhou JY, Wu XL, Sun JH, Chen H. The effectiveness and
39 40	safety of acupuncture/electroacupuncture for chemotherapy-induced peripheral
40 41	neuropaury: a systematic review and meta-analysis. Acupunct Med. 2023 Apr: $41(2)$:73-85
41	(4), (4), (3), (3)

1	Plener J, Csiernik B, To D, da Silva-Oolup S, Hofkirchner C, Cox J, Cancelliere C, Chow
2	N, Hogg-Johnson S, Ammendolia C. Conservative Management of Cervical
3	Radiculopathy: A Systematic Review. Clin J Pain. 2023 Mar 1;39(3):138-146.
4	
5	Qaseem, A., Wilt, T. J., McLean, R. M., Forciea, M. A., Clinical Guidelines Committee of
6	the American College of Physicians, Denberg, T. D., Barry, M. J., Boyd, C., Chow, R.
7	D., Fitterman, N., Harris, R. P., Humphrey, L. L., & Vijan, S. (2017). Noninvasive
8	Treatments for Acute, Subacute, and Chronic Low Back Pain: A Clinical Practice
9	Guideline From the American College of Physicians. Annals of internal
10	medicine, 166(7), 514–530. https://doi.org/10.7326/M16-2367
11	
12	Qi L, Shi H, Zhang Y, Zhang X, Jia H, Tian H. The effect of acupuncture on recovery after
13	colorectal cancer resection: A systematic review meta-analysis of randomized
14	controlled trials. Medicine (Baltimore). 2023 Sep 1;102(35):e34678.
15	
16	Rithirangsriroj, K., Manchana, T., & Akkayagorn, L. (2015). Efficacy of acupuncture in
17	prevention of delayed chemotherapy induced nausea and vomiting in gynecologic
18	cancer patients. $Gynecologic$ oncology, $130(1)$, $82-86$.
19	https://doi.org/10.1016/j.ygyno.2014.10.025
20	Samariatta DT Mahar CC Namata TD Casta LO Manaras Casta LC Ostala DW Maada
21	Saragiouo BT, ManerCG, Yamato TP, Costa LO, Menezes Costa LC, Ostelo KW, Macedo
22	Syst Pay 2016 Jap 8:(1):CD012004
23	Syst Rev. 2010 Jan 8,(1).CD012004.
24 25	Shekelle P. Diagnosis and Treatment of Low Back Pain: A Joint Clinical Practice
25	Guideline from the American College of Physicians and the American Pain Society
27	What's New? What's Different? Retrieved on February 9, 2021 from
28	https://www.guideline.gov/expert/expert-
29	commentary.aspx?id=16452&search=chiropractic
30	
31	Shen, Y., Liu, L., Chiang, J. S., Meng, Z., Garcia, M. K., Chen, Z., Peng, H., Bei, W., Zhao,
32	Q., Spelman, A. R., & Cohen, L. (2015). Randomized, placebo-controlled trial of K1
33	acupoint acustimulation to prevent cisplatin-induced or oxaliplatin-induced
34	nausea. Cancer, 121(1), 84–92. https://doi.org/10.1002/cncr.28973
35	
36	Shi H, Yuan X, Fan W, Yang X, Liu G. An umbrella review of the evidence to guide
37	decision-making in acupuncture therapies for chemotherapy-induced peripheral
38	neuropathy. J Cancer Res Clin Oncol. 2023 Nov;149(17):15939-15955.
39	
40	Skelly, A. C., Chou, R., Dettori, J. R., Turner, J. A., Friedly, J. L., Rundell, S. D., Fu, R.,
41	Brodt, E. D., Wasson, N., Winter, C., & Ferguson, A. (2018). Noninvasive

CPG 264 Revision 19 – S Acupuncture Services Medical Policy/Guideline **Revised – October 17, 2024** To CQT for review 08/12/2024 CQT reviewed 08/12/2024 To MA-UMC for review 09/30/2024 MA-UMC reviewed 09/30/2024 To QIC for review and approval 10/01/2024 QIC reviewed and approved 10/01/2024 To QOC for review and approvel 10/17/2024 QOC reviewed and approved 10/17/2024 Page 86 of 90

- Nonpharmacological Treatment for Chronic Pain: A Systematic Review. Agency for
 Healthcare Research and Quality (US).
- 3

13

20

23

Skelly AC, Chou R, Dettori JR, Turner JA, Friedly JL, Rundell SD, Fu R, Brodt ED,
Wasson N, Kantner S, Ferguson AJR. Noninvasive Nonpharmacological Treatment for
Chronic Pain: A Systematic Review Update [Internet]. Rockville (MD): Agency for
Healthcare Research and Quality (US); 2020 Apr. Report No.: 20-EHC009. PMID:
32338846.

Smith, C. A., Zhu, X., He, L., & Song, J. (2011). Acupuncture for primary dysmenorrhoea. *The Cochrane database of systematic reviews*, (1), CD007854. https://doi.org/10.1002/14651858.CD007854.pub2

Sridharan, K., & Sivaramakrishnan, G. (2020). Interventions for treating hyperemesis 14 gravidarum: a network meta-analysis of randomized clinical trials. The journal of 15 maternal-fetal & neonatal medicine : the official journal of the European Association 16 of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the 17 International Society of Perinatal Obstetricians, 33(8),1405–1411. 18 https://doi.org/10.1080/14767058.2018.1519540 19

- Su X, Qian H, Chen B, et al. Acupuncture for acute low back pain: a systematic review and
 meta-analysis. Ann Palliat Med. 2021;10(4):3924-3936.
- Takakura N, Takayama M, Kawase A, Kaptchuk TJ, Kong J, Vangel M, Yajima H.
 Acupuncture for Japanese Katakori (Chronic Neck Pain): A Randomized PlaceboControlled Double-Blind Study. Medicina (Kaunas). 2023 Dec 9;59(12):2141.
- 27
- Tan MY, Shu SH, Liu RL, Zhao Q. The efficacy and safety of complementary and
 alternative medicine in the treatment of nausea and vomiting during pregnancy: A
 systematic review and meta-analysis. Front Public Health. 2023 Mar 9;11:1108756.
- Tice JA, Kumar V, Otuonye I, et al. Cognitive and Mind-Body Therapies for Chronic Low
 Back and Neck Pain: Effectiveness and Value, Final Evidence Report, November 6,
 2017. The Institute for Clinical and Economic Review (ICER), prepared for the
 California Technology Assessment Forum. Retrieved on March 17, 2022 from
 https://icer.org/wp content/uploads/2020/10/CTAF LBNP Final Evidence Report 110617.pdf
- 38 content/uploads/2020/10/CTAF_LBINF_Final_Evidence_Kepott_11001/.pdf
- Tick, H., & Nielsen, A. (2019). Academic Consortium for Integrative Medicine & Health
 Commentary to Health and Human Services (HHS) on Inter-agency Task Force Pain

Page 87 of 90

Management Best Practices Draft Report. Global advances in health and medicine, 8, 1 2 2164956119857656. https://doi.org/10.1177/2164956119857656 3 Trinh, K. V., Graham, N., Gross, A. R., Goldsmith, C. H., Wang, E., Cameron, I. D., Kay, 4 T., & Cervical Overview Group (2006). Acupuncture for neck disorders. The Cochrane 5 database systematic reviews, CD004870. 6 of (3),https://doi.org/10.1002/14651858.CD004870.pub3Turkistani A, Shah A, Jose AM, et 7 al. Effectiveness of Manual Therapy and Acupuncture in Tension-Type Headache: A 8 Systematic Review. Cureus. 2021;13(8):e17601. Published 2021 Aug 31. 9 10 U.S. Department of Health and Human Services (2019, May). Pain Management Best 11 Practices Inter-Agency Task Force Report: Updates, Gaps, Inconsistencies, and 12 Recommendations. Retrieved from U. S. Department of Health and Human Services 13 website: https://www.hhs.gov/ash/advisory-committees/pain/reports/index.html 14 15 Van Hal M, Dydyk AM, Green MS. Acupuncture. In: StatPearls. Treasure Island (FL): 16 17 StatPearls Publishing; July 31, 2021. 18 van Middelkoop M, Rubinstein SM, Verhagen AP, Ostelo RW, Koes BW, van TulderMW. 19 20 Exercise therapy for chronic nonspecific low-back pain. Best Pract Res Clin 21 Rheumatol. 2010 Apr;24(2):193-204. 22 23 van Tulder M, Becker A, Bekkering T, Breen A, del Real MT, Hutchinson A, Koes B, Laerum E, Malmivaara A; COST B13 Working Group on Guidelines for the 24 Management of Acute Low Back Pain in Primary Care. Chapter 3. European guidelines 25 for the management of acute nonspecific low back pain in primary care. Eur Spine J. 26 27 2006 Mar;15 Suppl 2:S169-91. 28 Vickers AJ1, Cronin AM, Maschino AC, Lewith G, MacPherson H, Foster NE, Sherman 29 KJ, Witt CM, Linde K; Acupuncture Trialists' Collaboration. Acupuncture for chronic 30 pain: individual patient data meta-analysis. Arch Intern Med. 2012 Oct 31 22:172(19):1444-53 Walsh NE, Brooks P, Hazes JM, et al. Standards of care for acute 32 33 and chronic musculoskeletal pain: The bone and joint decade (2000-2010). Arch Phys Med Rehabil. 2008;89:1830-1845. 34 35 Wang L, Yin Z, Zhang Y, Yu Y, Lin Y, Zhao L. Optimal Acupuncture Methods for 36 37 Nonspecific Low Back Pain: A Systematic Review and Bayesian Network Meta-Analysis of Randomized Controlled Trials Journal of Pain Research. 2021:14, 1097-38

39 1112.

CPG 264 Revision 19 – S Acupuncture Services Medical Policy/Guideline **Revised – October 17, 2024** To CQT for review 08/12/2024 CQT reviewed 08/12/2024 To MA-UMC for review 09/30/2024 MA-UMC reviewed 09/30/2024 To QIC for review and approval 10/01/2024 QIC reviewed and approved 10/01/2024 To QOC for review and approved 10/17/2024 QOC reviewed and approved 10/17/2024 Page 88 of 90

1 2	Washington State Department of Labor and Industries. Conservative care options for work- related mechanical shoulder conditions. Olympia (WA): Washington State Department
3	of Labor and Industries; 2014 Apr 17. 31 p. Retrieved on February 9, 2021 from
4	https://www.guidelinecentral.com/summaries/conservative-care-options-for-work-
5	related-mechanical-shoulder-conditions/#section-420Wong JJ, Côté P, Sutton DA, et
6	al. Clinical practice guidelines for the noninvasive management of low back pain: A
7	systematic review by the Ontario Protocol for Traffic Injury Management (OPTIMa)
8	Collaboration. Eur J Pain. 2017;21(2):201-216.
9	
10	Wu B, Yang L, Fu C, et al. Efficacy and safety of acupuncture in treating acute low back
11	pain: a systematic review and bayesian network meta-analysis. Ann Palliat Med.
12	2021;10(6):6156-6167.
13	
14	Xiang Y, He J, Li R. Appropriateness of sham or placebo acupuncture for randomized
15	controlled trials of acupuncture for nonspecific low back pain: a systematic review and
16	meta-analysis. J Pain Res. 2017 (11):83-94.
17	
18	Xiang Y, He J, Tian H, Cao B, Li R. Evidence of efficacy of acupuncture in the
19	management of low back pain: a systematic review and meta-analysis of randomised
20	placebo- or sham-controlled trials. Acupunct Med. 2020 Feb;38(1):15-24.
21	
22	Xinnong C. (2019). Chinese Acupuncture and Moxibustion (3 rd ed.). Foreign Languages
23	Press.
24	
25	Xiong Q, Min S, Wei K, Yang Y, Ma J, Liu D. Transcutaneous Electrical Acupoint
26	Stimulation Combined with Dexametnasone and Tropisetron Prevents Postoperative
27	Nausea and vomiting in Female Patients Undergoing Laparoscopic Sieve
28	Gastrectomy: a Prospective, Randomized Controlled Irial. Obes Surg. 2021
29	May; 51(5):1912-1920.
31	Van WX Lin HZ Wang X Zhang W Liu LP Yu IN Yang T Acupuncture for Low Back
22	Pain: Paevaluation of Systematic Paviaws and Mata analyses. Curr Pain Headache
32	Ren 2023 Sen:27(9):351-369
34	$\operatorname{Rep}(2023 \operatorname{Sep}(27(7)).551^{-5}(0)).$
35	Yan Y. López-Alcalde I. Zhang L. Siebenhüner AR. Witt CM. Barth I. Acupuncture for
36	the prevention of chemotherapy-induced nausea and vomiting in cancer patients: A
37	systematic review and meta-analysis. Cancer Med. 2023 Jun:12(11):12504-12517.
38	
39	Yang J, Wahner-Roedler DL, Zhou X, et al. Acupuncture for palliative cancer pain
40	management: systematic review. BMJ Support Palliat Care. 2021;11(3):264-270.

Page 89 of 90

- Yang X, Liang B, Xue D, Liang J, Zaslawski C, Chen J. Global research trends in acupuncture for cancer pain: A bibliometric analysis. Medicine (Baltimore). 2023 Oct 13;102(41):e34739
- Yu B, Li M, Huang H, et al. Acupuncture treatment of diabetic peripheral neuropathy: An
 overview of systematic reviews. J Clin Pharm Ther. 2021;46(3):585-598.
- Yu C, Zhang R, Shen B, Li X, Fang Y, Jiang Y, Jian G. Effects of sham acupuncture for
 chronic musculoskeletal pain syndrome: A systematic review and network metaanalysis of randomized controlled trials. Medicine (Baltimore). 2023 Nov
 17;102(46):e35275.
- Yuan Q, Guo T, Liu L, Sun F, Zhang Y. Traditional Chinese medicine for neck pain and
 low back pain: a systematic review and meta-analysis. PLoS One. 2015;
 10(2):e0117146.
- Zeng Y and Chung JW. Acupuncture for chronic nonspecific low back pain: An overview
 of systematic reviews. European Journal of Integrative Medicine. 2015; 7(2): 94-107.
- Zhan J, Luo Y, Mao W, Zhu L, Xu F, Wang Y, Chen H, Zhan L. Efficacy of acupuncture
 versus rehabilitation therapy on post-stroke shoulder pain: A systematic review and
 meta-analysis of randomized controlled trials. Medicine (Baltimore). 2023 Jul
 21;102(29):e34266.
- Zhang GL, Yang SY, Zhu ZL, Mu PX. Meta-analysis on postoperative complications of
 wristband acupoint pressure therapy. J Biol Regul Homeost Agents. 2015 Jan Mar;29(1):187-93.
- Zhang Y, Zhang C, Yan M, Wang N, Liu J, Wu A. The effectiveness of PC6 acupuncture
 in the prevention of postoperative nausea and vomiting in children: A systematic
 review and meta-analysis. Paediatr Anaesth. 2020 May;30(5):552-563.
- Zhang Y, Sun Y, Li D, et al. Acupuncture for Breast Cancer: A Systematic Review and
 Meta-Analysis of Patient-Reported Outcomes. Front Oncol. 2021;11:646315.
 Published 2021 Jun 10. doi:10.3389/fonc.2021.646315
- 36

4

7

12

16

19

24

28

Zheng H, Gao T, Zheng QH, et al. Acupuncture for Patients With Chronic Tension-Type
 Headache: A Randomized Controlled Trial [published online ahead of print, 2022 Jun
 22]. Neurology. 2022;10.1212/WNL.000000000200670.

CPG 264 Revision 19 – S Acupuncture Services Medical Policy/Guideline **Revised – October 17, 2024** To CQT for review 08/12/2024 CQT reviewed 08/12/2024 To MA-UMC for review 09/30/2024 MA-UMC reviewed 09/30/2024 To QIC for review and approval 10/01/2024 QIC reviewed and approved 10/01/2024 To QOC for review and approved 10/17/2024 Page 90 of 90