HEALTH EVIDENCE REVIEW COMMISSION (HERC)

COVERAGE GUIDANCE: LOWER BACK PAIN: NON-PHARMACOLOGICAL/NON-INVASIVE INTERVENTIONS

Initial HERC approval 6/14/2012 Reaffirmed 11/13/2014

This coverage guidance was created under HERC's 2012 coverage guidance process and does not include strength of recommendation, a GRADE-informed framework or coverage guidance development framework.

As a part of the normal evidence review process, the Evidence-based Guidelines Subcommittee elected in September, 2014 (see Appendix A) to defer action on this coverage guidance until a planned updated version of the original source review is completed. However, the guidance's recommendation language has been altered to be consistent with that of more recent guidances.

HERC Coverage Guidance

Non-Pharmacological Interventions

For pain \leq 4 weeks, self-care is recommended, and for those who do not improve with self-care, spinal manipulation is recommended for coverage.

For pain > 4 weeks duration, the following treatments are recommended for coverage:

- Acupuncture
- Cognitive-behavioral therapy
- Exercise therapy
- Intensive interdisciplinary rehabilitation
- Massage therapy
- Progressive relaxation
- Spinal manipulation
- Yoga (viniyoga)

The following are not recommended for coverage for low back pain:

- Continuous or intermittent traction
- Transcutaneous electrical nerve stimulation

RATIONALE FOR GUIDANCE DEVELOPMENT

The HERC selects topics for guideline development or technology assessment based on the following principles:



- Represents a significant burden of disease
- Represents important uncertainty with regard to efficacy or harms
- Represents important variation or controversy in clinical care
- Represents high costs, significant economic impact
- Topic is of high public interest

Coverage guidance development follows to translate the evidence review to a policy decision. Coverage guidance may be based on an evidence-based guideline developed by the Evidence-based Guideline Subcommittee or a health technology assessment developed by the Heath Technology Assessment Subcommittee. In addition, coverage guidance may utilize an existing evidence report produced by one of HERC's trusted sources, generally within the last three years.

EVIDENCE SOURCES

Chou R., Qaseem, A., Snow, V., Casey, D., Cross, J.T., Jr., Shekelle, P., Owens, D.K.; Clinical Efficacy Assessment Subcommittee of the American College of Physicians; American College of Physicians; American Pain Society Low Back Pain Guidelines Panel. *Diagnosis and treatment of low back pain: a joint clinical practice guideline from the American College of Physicians and the American Pain Society.* Annals of Internal Med. 2007; 147(7); 478-491. Available at: http://www.annals.org/content/147/7/478.long

Chou, R., Huffman, L. 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. Ann Intern Med. 2007; 147; 492-504. Available at: http://www.annals.org/content/147/7/492.full.pdf+html

The summary of evidence in this document is derived directly from this evidence source, and portions are extracted verbatim.

SUMMARY OF EVIDENCE

CLINICAL BACKGROUND

Low back pain is the fifth most common reason for all physician visits in the United States. Approximately one quarter of U.S. adults reported having low back pain lasting at least 1 whole day in the past 3 months, and 7.6% reported at least 1 episode of severe acute low back pain within a 1-year period. Low back pain is also very costly: Total incremental direct health care costs attributable to low back pain in the U.S. were estimated at \$26.3 billion in 1998. In addition, indirect costs related to days lost from work are substantial, with approximately 2% of the U.S. work force compensated for back injuries each year.

Many patients have self-limited episodes of acute low back pain and do not seek medical care. Among those who do seek medical care, pain, disability, and return to work typically improve rapidly in the first month. However, up to one third of patients report persistent back pain of at least moderate intensity 1 year after an acute episode, and 1 in 5 report substantial limitations in activity. Approximately 5% of the people with back pain disability account for 75% of the costs associated with low back pain.

Many options are available for evaluation and management of low back pain. However, there has been little consensus, either within or between specialties, on appropriate clinical evaluation and management of low back pain. Numerous studies show unexplained, large variations in use of diagnostic tests and treatments. Despite wide variations in practice, patients seem to experience broadly similar outcomes, although costs of care can differ substantially among and within specialties.

EVIDENCE REVIEW

Clinicians should inform all patients of the generally favorable prognosis of acute low back pain with or without sciatica, including a high likelihood for substantial improvement in the first month. General advice on self-management for nonspecific low back pain should include recommendations to remain active, which is more effective than resting in bed for patients with acute or subacute low back pain. Self-care education books based on evidence-based guidelines, such as *The Back Book* are recommended because they are an inexpensive and efficient method for supplementing clinician-provided back information and advice and are similar or only slightly inferior in effectiveness to such costlier interventions as supervised exercise therapy, acupuncture, massage, and spinal manipulation.

For acute low back pain (duration <4 weeks), spinal manipulation administered by providers with appropriate training is associated with small to moderate short-term benefits. Supervised exercise therapy and home exercise regimens are not effective for acute low back pain, and the optimal time to start exercise therapy after the onset of symptoms is unclear. For subacute (duration >4 to 8 weeks) low back pain, intensive interdisciplinary rehabilitation (defined as an intervention that includes a physician consultation coordinated with a psychological, physical therapy, social, or vocational intervention) is moderately effective, and functional restoration with a cognitive-behavioral component reduces work absenteeism due to low back pain in occupational settings. For chronic low back pain, moderately effective nonpharmacologic therapies include acupuncture, exercise therapy, massage therapy, Viniyoga-style yoga, cognitive-behavioral therapy or progressive relaxation, spinal manipulation, and intensive interdisciplinary rehabilitation. Transcutaneous electrical nerve stimulation and intermittent or continuous traction (in patients with or without sciatica) have not been proven effective for chronic low back pain.

OVERALL SUMMARY

Non-pharmacologic treatments that have been shown to be effective for LBP include spinal manipulation, intensive interdisciplinary rehabilitation, exercise therapy, acupuncture, massage therapy, yoga, cognitive-behavioral therapy and progressive relaxation. Transcutaneous

electrical nerve stimulation and intermittent or continuous traction have not been proven effective in the treatment of chronic LBP.

PROCEDURE

Acupuncture

Cognitive-behavioral therapy

Continuous or intermittent traction

Exercise therapy

Intensive interdisciplinary rehabilitation

Massage therapy

Progressive relaxation

Spinal manipulation

Transcutaneous electrical nerve stimulation

Viniyoga-style yoga

DIAGNOSES

Low back pain

APPLICABLE CODES

CODES	DESCRIPTION	
ICD-9 Diagnosis Codes		
170.2	Tumor lumbosacral region primary	
198.5	Tumor lumbosacral region secondary	
344.60	Cauda equine syndrome	
720.1	Spinal enthesopathy	
720.2	Sacroiliitis, not elsewhere classified	
721.3	Lumbosacral spondylosis without myelopathy	
721.42	Spondylosis with myelopathy, lumbar region	
721.5	Kissing spine	
721.6	Ankylosing vertebral hyperostosis	
721.7	Traumatic spondylopathy	
721.8	Other allied disorders of spine	
721.9	Spondylosis of unspecified site	
722.1	Displacement of thoracic or lumbar intervertebral disc without myelopathy	
722.2	Displacement of intervertebral disc, site unspecified, without myelopathy	
722.32	Schmorl's nodes, lumbar region	
722.39	Schmorl's nodes, other region	
722.5	Degeneration of thoracic or lumbar intervertebral disc	
722.6	Degeneration of intervertebral disc, site unspecified	
722.70	Intervertebral disc disorder with myelopathy, unspecified region	
722.72	Intervertebral disc disorder with myelopathy, thoracic region	
722.73	Intervertebral disc disorder with myelopathy, lumbar region	
722.80	Postlaminectomy syndrome, unspecified region	
722.82	Postlaminectomy syndrome, thoracic region	
722.83	Postlaminectomy syndrome, lumbar region	

CODES	DESCRIPTION		
722.90	Other and unspecified disc disorder, unspecified region		
722.92	Other and unspecified disc disorder, thoracic region		
722.93	Other and unspecified disc disorder, lumbar region		
724	Other and unspecified disorders of back		
724.0	Spinal stenosis other than cervical		
724.00	Spinal stenosis, unspecified region		
724.01	Spinal stenosis, thoracic region		
724.02	Spinal stenosis, lumbar region, without neurogenic claudication		
724.03	Spinal stenosis, lumbar region, with neurogenic claudication		
724.09	Spinal stenosis, other region		
724.1	Pain in thoracic spine		
724.2	Lumbago		
724.3	Sciatica		
724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified		
724.5	Backache, unspecified		
724.6	Disorders of sacrum		
724.7	Disorders of coccyx		
724.70	Unspecified disorder of coccyx		
724.71	Hypermobility of coccyx		
724.79	Other disorders of coccyx		
724.8	Other symptoms referable to back		
724.9	Other unspecified back disorders		
730.2	Unspecified osteomyelitis		
732.0	Juvenile osteochondrosis of spine		
733.0	Osteoporosis		
737.2	Lordosis (acquired)		
737.30	Scoliosis [and kyphoscoliosis], idiopathic		
737.39	Other kyphoscoliosis and scoliosis		
737.4	Curvature of spine associated with other conditions		
737.8	Other curvatures of spine		
737.9	Unspecified curvature of spine		
738.4	Acquired spondylolisthesis		
738.5	Other acquired deformity of back or spine		
739.2	Nonallopathic lesions, thoracic region		
739.3	Nonallopathic lesions, lumbar region		
739.4	Nonallopathic lesions, sacral region		
754.2	Congenital musculoskeletal deformities of spine		
756.1	Congenital anomalies of spine		
846	Sprains and strains of sacroiliac region		
847.1	Sprain of thoracic		
847.2	Sprain of lumbar		
847.3	Sprain of sacrum		
847.4	Sprain of coccyx		
847.9	Sprain of unspecified site of back		
	lume 3 (procedure codes)		
None			
CPT			
Spinal M	Spinal Manipulation		

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CODES	DESCRIPTION		
98925	Osteopathic manipulative treatment (OMT); 1-2 body regions involved		
98926	3-4 body regions involved		
98927	5-6 body regions involved		
98928	7-8 body regions involved		
98929	9-10 body regions involved		
98940	Chiropractic manipulative treatment (CMT); spinal, 1-2 regions		
98941	spinal, 3-4 regions		
98942	spinal, 5 regions		
98943	extraspinal, 1 or more regions		
Acupuncture			
97810	Acupuncture, 1 or more needles; without electrical stimulation, initial 15 minutes of personal one-on-one contact with the patient		
+97811	without electrical stimulation, each additional 15 minutes of personal one-on-one contact with the patient, with re-insertion of needle(s)		
97813	with electrical stimulation, initial 15 minutes of personal one-on-one contact with the patient		
+97814	with electrical stimulation, each additional 15 minutes of personal one-on-one contact with the patient, with re-insertion of needle(s)		
Cognitiv	e Behavioral Therapy		
90804	Individual psychotherapy, insight oriented, behavior modifying and/or supportive, in an office or outpatient facility, approximately 20 to 30 minutes face-to-face with the patient		
90805	with medical evaluation and management services		
90806	Individual psychotherapy, insight oriented, behavior modifying and/or supportive, in an office or outpatient facility, approximately 45 to 50 minutes face-to-face with the patient		
90807	with medical evaluation and management services		
90808	Individual psychotherapy, insight oriented, behavior modifying and/or supportive, in an office or outpatient facility, approximately 75 to 80 minutes face-to-face with the patient		
90809	with medical evaluation and management services		
90810	Individual psychotherapy, interactive, using play equipment, physical devices, language interpreter, or other mechanisms of non-verbal communication, in an office or outpatient facility, approximately 20 to 30 minutes face-to-face with the patient		
90811	with medical evaluation and management services		
90812	Individual psychotherapy, interactive, using play equipment, physical devices, language interpreter, or other mechanisms of non-verbal communication, in an office or outpatient facility, approximately 45 to 50 minutes face-to-face with the patient		
90813	with medical evaluation and management services		
90814	Individual psychotherapy, interactive, using play equipment, physical devices, language interpreter, or other mechanisms of non-verbal communication, in an office or outpatient facility, approximately 75 to 80 minutes face-to-face with the patient		
90815	with medical evaluation and management services		
90875	Individual psychophysiological therapy incorporating biofeedback training by any modality (face-to-face with the patient), with psychotherapy (eg, insight oriented, behavior modifying or supportive psychotherapy)		
97001	Physical therapy evaluation		

CODES	DESCRIPTION
97002	Physical therapy re-evaluation
97012	Traction, mechanical
97014	Electrical stimulation (unattended)
97110	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility
97112	neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities
97116	gait training (includes stair climbing)
97124	massage, including effleurage, petrissage and/or tapotement (stroking, compression, percussion)
97140	Manual therapy techniques (eg, mobilization/manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes
97150	Therapeutic procedures(s), group (2 or more individuals) (Group therapy procedures involve constant attendance of the physician or therapist, but by definition do not require one-on-one patient contact by the physician or therapist)
97530	Therapeutic activities, direct (one-on-one) patient contact by the provider (use of dynamic activities to improve functional performance), each 15 minutes
HCPCS I	evel II Codes
E0830	Ambulatory traction device, all types, each
E0941	Gravity assisted traction device, any type
H0002	Behavioral health screening to determine eligibility for admission to treatment program
H0004	Behavioral health counseling and therapy, per 15 minutes
H0031	Mental health assessment, by nonphysician
H0032	Mental health service plan development by nonphysician
H2000	Comprehensive multidisciplinary evaluation
H2001	Rehabilitation program, per ½ day
S9451	Exercise classes, nonphysician provider, per session

APPENDIX A

SCANNING RESULTS

One AHRQ review that addresses non-pharmacological interventions for low back pain is expected to be published in late 2015 or early 2016.

Agency for Healthcare Research and Quality (2014). Noninvasive Treatments for Low Back Pain: Research Protocol. Oct. 8, 2014. Retrieved from http://effectivehealthcare.ahrq.gov/search-for-guides-reviews-and-reports/?pageaction=displayproduct&productid=1983

SUMMARY

The Evidence-based Guidelines subcommittee will perform a search of trusted sources and update the coverage guidance upon completion of the report referenced above.