Clinical Practice Guideline:
Chiropractic Services Medical Policy/Guideline

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Related Policies:

CPG 1: X-ray Guidelines

CPG 3: Quality Patient Management

CPG 12: Medical Necessity Decision Assist Guideline for

Rehabilitative Care

CPG 110: Medical Record Maintenance and Documentation

Practices

CPG 111: Patient Assessments: Medical Necessity Decision Assist

Guideline for Evaluations and Re-evaluations

CPG 119: Spinal Manipulative Therapy for Non-Musculoskeletal

and Related Disorders

CPG 120: Spinal Manipulative Therapy for Treatment of Children

CPG 121: Passive Physiotherapy Modalities

CPG 129: Electrodiagnostic Testing

CPG 133: Techniques and Procedures Not Widely Supported as

Evidence-Based

CPG 135: Physical Therapy Medical Policy / Guidelines

CPG 142: Supports and Appliances

CPG 175: Extra-Spinal Joint Manipulation / Mobilization for the

Treatment of Upper Extremity Musculoskeletal Conditions

CPG 177: Extra-Spinal Joint Manipulation / Mobilization for the

Treatment of Lower Extremity Musculoskeletal Conditions

CPG 275: Mechanical Traction (Provided in a Clinical Setting)

CPG 285: Spinal Manipulative Therapy (SMT) for

Musculoskeletal and Related Disorders

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DESCRIPTION

This document addresses Chiropractic skilled services which may be delivered by a Chiropractor/Doctor of Chiropractic acting within the scope of a professional license. This document also addresses the processes associated with Medical Necessity Determinations performed by American Specialty Health (ASH) Clinical Quality Evaluators (CQEs) on Chiropractic services submitted for review.

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

GUIDELINES

1. PROVIDERS OF CHIROPRACTIC SERVICES

Covered, medically necessary chiropractic services must be delivered by a qualified Chiropractor acting within the scope of their license as regulated by the Federal and State governments. Some services may be performed by ancillary providers (e.g., licensed massage therapist, physical therapist) under the direction and supervision of a licensed Chiropractor; however, generally, only those healthcare practitioners who hold an active license, certification, or registration with the applicable state board or agency may provide such services. Benefits for services provided by these ancillary healthcare providers may also be dependent upon the patient's benefit contract language.

Aides and other nonqualified personnel are limited to provision of non-skilled services such as preparing the individual, treatment area, equipment, or supplies; assisting a qualified therapist or assistant; and transporting individuals.

2. HABILITATIVE SERVICES

Chiropractic Manipulative Therapy (CMT) is not generally considered to be a medically necessary habilitative service. Medically necessary habilitative services refer to therapeutic modalities and procedures necessary to maintain, develop or improve skills needed to perform activities of daily living (ADLs) or instrumental activities of daily living (IADLs) which have not (but normally would have) developed or which are at risk of being lost as a result of illness, injury, loss of a body part, or congenital abnormality. Such services are generally performed by physical therapists, occupational therapists, and speech therapists. However, Chiropractors may provide therapeutic modalities and procedures that meet the definition of medically necessary habilitative services when allowed by state scope of

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practice; however, joint manipulation (chiropractic manipulation/osteopathic manipulation) is not generally considered to be medically necessary as a Habilitative service.

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3. REHABILITATIVE CHIROPRACTIC SERVICES

Medically Necessary

Rehabilitative chiropractic services are considered **medically necessary** when **ALL** the following criteria are met:

- 1. The services are delivered by a qualified provider of chiropractic services; and
- 2. The services require the judgment, knowledge, and skills of a qualified provider of chiropractic services due to the complexity and sophistication of the therapy and the medical condition of the individual; and
- 3. The service is aimed at diagnosis, treatment, and/or prevention of disorders of the musculoskeletal system, and the effects of these disorders on the nervous system and general health; and
- 4. The service is for conditions that require the unique knowledge, skills, and judgment of a Chiropractor for education and training of the patient that is part of an active skilled plan of treatment; and
- There is a clinically supported expectation that the service will result in a clinically significant level of functional improvement within a reasonable and predictable period of time*; and
 - Improvement or restoration of function could not be reasonably expected as the individual gradually resumes normal activities without the provision of skilled therapy services; and
 - The documentation objectively verifies progressive functional improvement over specific time frames and clinically justifies the initiation of continuation of rehabilitative services.

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*Reasonable and predictable period of time: The specific time frames for which one would expect practical functional improvement is dependent on various factors including whether the services are Rehabilitative or Habilitative services. A reasonable trial of care for rehabilitative services to determine the patient's potential for improvement in or restoration of function is generally up to 4 weeks and is influenced by the diagnosis; 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). Habilitative services may be prolonged and are primarily influenced by the type of ADLs or IADLs which have not developed, or which are at risk of being lost.

Not Medically Necessary

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- (1) Maintenance care (e.g., elective care, wellness care) is considered **not** medically 2 necessary as a rehabilitative service; and is often a specific benefit exclusion. 3
- (2) Rehabilitative Chiropractic services are considered **not** medically necessary if **any** of 4 the following is determined:
 - 1. The service is **not** aimed at diagnosis, treatment, and prevention of disorders of the musculoskeletal system, and the effects of these disorders on the nervous system and general health.
 - 2. The service is for conditions for which therapy would be considered routine educational, training, conditioning, or fitness. This includes treatments or activities that require only routine supervision.
 - 3. The expectation does **not** exist that the service(s) will result in a clinically significant improvement in the level of functioning within a reasonable and predictable period of time (up to 4 weeks).
 - o If function could reasonably be expected to improve as the individual gradually resumes normal activities, then the service is considered not medically necessary.
 - If an individual's expected restoration potential would be insignificant in relation to the extent and duration of the service required to achieve such potential, the service(s) would be considered **not** medically necessary.
 - The documentation fails to objectively verify functional progress over a reasonable period of time (up to 4 weeks).
 - o The patient has reached maximum therapeutic benefit.
 - 4. A passive modality is **not** preparatory to other skilled treatment procedures or is not necessary in order to provide other skilled treatment procedures safely and effectively.
 - 5. A passive modality has insufficient published evidence to support a clinically meaningful physiologic effect on the target tissue or improve the potential for a positive response to care for the condition being treated.
 - 6. Services do **not** require the skills of a qualified provider of chiropractic services. Examples include but not limited to:
 - o Practitioner recommended activities and services that can be practiced independently and can be self-administered safely and effectively.
 - o Home exercise programs that can be performed safely and independently to continue therapy without skilled supervision.
 - Activities for the general health and welfare of the individual such as:
 - General exercises (basic aerobic, strength, flexibility, or aquatic programs) to promote overall fitness/conditioning.
 - Services/programs for the primary purpose of enhancing or returning to athletic or recreational sports.
 - Massages and whirlpools for relaxation.

QOC reviewed and adopted 10/19/2023

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- General public education/instruction sessions.
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- 7. Reevaluations or assessments of a patient's status that are not separate and distinct services from those work components included within the Chiropractic Manipulative Services.
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- 8. Reevaluations or assessments of a patient's status that are not necessary to continue a course of therapy nor related to a new condition, new or changed health status for which the evaluation will likely result in a change in the treatment plan. 9. The treatments/services are **not** supported by and are **not** performed in accordance

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with peer-reviewed literature as documented in appliable ASH CPGs or other literature accepted by ASH Clinical Quality committee. 10

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(3) The following treatments are considered **not** medically necessary because they are nonmedical, educational, or training in nature. In addition, these treatments/programs may be specifically excluded under benefit plans:

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• Group therapy (because it is not one-on-one, individualized to the specific patient's needs).

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 Vocational rehabilitation programs and any program or evaluation with the primary goal of returning a patient to work.

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• Work hardening programs.

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• Nutrition wellness education or similar wellness interventions.

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4. CHIROPRACTIC MANIPULATION / MOBILIZATION

Chiropractic Manipulative Therapy (CMT) is a specific therapeutic procedure characterized by controlled force, leverage, direction, amplitude, and velocity intended to correct or improve spinal subluxation (altered joint alignment, motion, or physiologic function in an intact motion segment). This is distinguished from the use of the term manipulation by other professions which may include a spectrum of manual therapies such as mobilization, soft tissue manipulation, and muscle-energy techniques. For more information, see the Spinal Manipulative Therapy for Musculoskeletal and Related

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Disorders (CPG 285 - S) clinical practice guideline.

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The CMT service includes a brief pre-treatment evaluation of the patient's condition(s), as well as documentation of the patient's response post-treatment. These brief evaluations are essential to determine if:

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The treatment provided significant clinical improvement;

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Further care is warranted; A change in treatment plan is indicated;

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A referral is indicated; or

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The treatment should be discontinued.

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Failure to appropriately perform and adequately document these brief evaluations may result in an adverse determination (partial approval or denial) of those CMT services.

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4.1 Guidelines for Chiropractic Spinal Manipulation

In accordance with the current version of the American Medical Association's (AMA) Current Procedural Terminology (CPT) codebook, the five spinal regions are:

- Cervical region (includes the atlanto-occipital joint)
- Thoracic region (includes the costovertebral and costotransverse joints)
- Lumbar region
- Sacral region
- Pelvic region (includes the sacro-iliac joints)

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The CPT codes for reporting spinal manipulation/mobilization are as follows:

- 98940 CMT; Spinal, 1-2 regions
- 98941 CMT; Spinal, 3-4 regions
- 98942 CMT; Spinal, 5 regions

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Medical Necessity Criteria

ASH considers Chiropractic spinal manipulation (or grade V mobilization) to be medically necessary when both of the following criteria are met:

- There is adequate documentation that the patient has a symptomatic (acute, subacute, or chronic; with or without radicular components) musculoskeletal or related disorder attributable to a mechanical, structural, or functional disorder of the sacroiliac, lumbosacral; lumbar, thoracic and/or cervical spine or headache disorders including tension-type and migraine headaches; and
- There is an absence of contraindications to manipulation/mobilization or diagnostic red flags suggesting a possible organic disorder in the area of treatment, including but not limited to:
 - Malignancy or infection
 - Metabolic bone disease
 - Fusion or ankylosis
 - Acute fracture or ligament rupture
 - Joint hypermobility/instability

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Documentation Requirements to Substantiate Medical Necessity of Chiropractic Spinal Manipulation/Mobilization

Proper and sufficient documentation is essential to establish the clinical necessity and effectiveness of spinal manipulation/mobilization, 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 area or spinal segment

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treated. Each daily record should include: the date of service, the procedure performed, area of treatment, and the identity of the person(s) providing the manipulation/mobilization services. Failure to properly identify and sufficiently document the practitioner's clinical findings that substantiate the clinical rationale to support spinal manipulation/mobilization on a daily progress note may result in an adverse determination (partial approval or denial). Documentation should include:

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(1) Absence of contraindications to spinal manipulation/mobilization in the area of treatment.

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- (2) Physical exam findings that correlate with the patient's subjective complaint(s) and support the diagnosis and treatment plan. Such findings may include:
 - Pain (e.g., bone, muscle, joint)
 - Tenderness/achiness (e.g., muscles, joints)
 - Stiffness and/or limited motion
 - Tone or texture changes in the adjacent muscles and soft tissues including muscle tightness or weakness
 - Asymmetry or misalignment between adjacent spinal segments
- Acute inflammation (e.g., redness, heat, swelling, pain, impaired function, tenderness)
 - Headache disorders (including tension-type and migraine headaches)
 - Impaired function (e.g., functional deficits, ADL restrictions)
 - Muscle disorders (e.g., spasms, cramps, injuries, trigger points)
 - Numbness/tingling or other paresthesia, weakness, loss of deep tendon reflexes, or other signs of nerve or nerve root compression or irritation
 - Other exam findings related and/or specific to the patient's condition(s) or complaint(s)

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(3) A valid musculoskeletal diagnosis for a spinal complaint for which there is sufficient clinical evidence that spinal manipulation/mobilization is both safe and efficacious. Spinal manipulation/mobilization for non-musculoskeletal conditions is not medically necessary.

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(4) Documentation that identifies against valid criteria (x-ray findings or physical exam findings) the presence and location of spinal dysfunctions / subluxation. Failure to appropriately document the spinal subluxation(s) may result in an adverse determination (partial approval or denial) of CMT services.

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(5) An assessment of clinically significant change(s) in the patient's condition(s) if documenting the need for continued care.

4.2 Guidelines for Chiropractic Extra-Spinal Joint Manipulation/Mobilization

In accordance with the current version of the CPT codebook, the five extraspinal regions are:

- Head region (includes the temporomandibular joint, excluding the atlantooccipital)
- Upper extremities
- Lower extremities
- Rib cage (excluding the costotransverse and costovertebral joints)
- Abdomen

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The CPT code for reporting extra-spinal manipulation/mobilization is:

• 98943 CMT; Extraspinal, 1 or more regions

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Medically Necessary Extra-Spinal Joint Manipulation/Mobilization

In the absence of contraindications, the use of Extra-Spinal Joint Manipulation/Mobilization may be considered medically necessary when subjective complaint(s) and objective findings demonstrate a reasonable expectation of achieving a clinically significant level of improvement in the patient's complaint/condition. Examples of such complaints/conditions include, but not limited to:

- Shoulder complaints, dysfunction, disorders, and/or pain
- Restricted joint play of humeroradial joint
- Restricted joint play of radiocarpal joint
- Restricted joint play of iliofemoral joint
- Restricted joint play of proximal tibiofibular joint
- Ankle inversion sprains

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Documentation Requirements to Substantiate Medical Necessity of Chiropractic Extra-Spinal Manipulation / Mobilization

The patient's medical records should document the practitioner's clinical rationale to support extra-spinal manipulation/mobilization (98943). In addition to the documentation criteria in **section 4.1, documentation** for extra spinal manipulation should include, at a minimum, abnormal joint mechanics or a range of motion abnormality that is appropriately documented and correlated with the subjective findings of an extra-spinal complaint and other pertinent exam findings in order to support extra-spinal manipulation/mobilization.

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4.3 Use of Chiropractic Spinal Manipulation / Mobilization on Children

ASH considers Chiropractic spinal manipulation or mobilization for the treatment of children to be medically necessary when the documentation establishes a valid diagnosis and symptom pattern and there is a reasonable assumption of a positive benefit versus risk profile. Additional caution should be considered prior to performing Chiropractic spinal

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manipulation on infants and children. While there is insufficient literature to conclude that CMT is clinically effective or ineffective in children, a limited, short trial of care may be reasonable when the CMT meets all other medical necessity criteria. Monitoring the patient's tolerance for the services provided and response to care is especially important in this population as tolerance and response is highly variable in the pediatric population.

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Chiropractic spinal manipulation is considered **not** medically necessary for non-musculoskeletal and related disorders in children, such as:

- Asthma
- Infantile colic
- Nocturnal enuresis
- Otitis media

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5. THERAPEUTIC MODALITIES AND PROCEDURES

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

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Supervised modalities are untimed therapies. Untimed therapies are usually reported only 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 as more than one unit will require significant documentation to justify treatment greater than one session per day. Examples of supervised modalities include:

- Hot or cold packs
- Mechanical traction
- Unattended electrical stimulation
- Vasopneumatic devices
- Whirlpool
- Paraffin bath
- Diathermy
- Ultraviolet or infrared light

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Modalities that require constant attendance, are timed, and reported in 15-minute increments (one unit) regardless of the number of body areas to which they are applied. Examples of modalities that require constant attendance include:

- Contrast baths
- Ultrasound

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- Manual, attended electrical stimulation (e.g., NMES)
- Iontophoresis

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The CPT codebook defines therapeutic procedures as "A manner of effecting change through the application of clinical skills and/or services that attempt to improve function." Except for Group Therapy (97150) and Work Hardening/Conditioning (97545-6), therapeutic procedures require direct (one-on-one) patient contact by the Chiropractor, are timed therapies, and must be reported in units of 15-minute increments. Only the actual time that the Chiropractor is directly working with the patient performing exercises/activities, instruction, or assessments is counted as treatment time. The time that the patient spends not being treated because of a need for rest or equipment set up is not 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 considered a medically necessary therapeutic procedure. Exercises often can be taught to the patient or a caregiver as part of a home/self-care program. Examples of therapeutic procedures that require the Chiropractor to have direct (one-on-one) patient contact include:

- Therapeutic exercises
- Neuromuscular reeducation
- Gait training
 - Manual therapy (e.g., soft tissue mobilization)
- Therapeutic activities
 - Sensory integrative techniques
 - Wheelchair training

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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 include: the date of service, the name of each modality and/or procedure performed, the parameters for each modality (e.g., amperage/voltage, location of pads/electrodes), area of treatment, total treatment time spent for each therapy (mandatory for timed services), the total treatment time for each date of service, and the identity of the person(s) providing the 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 approval or denial).

5.1 Passive Care and Active Care

Generally, passive modalities are used to manage the acute inflammatory response, pain, and/or muscle tightness or spasm in the early stages of musculoskeletal and related condition management. They are most effective during the acute phase of treatment. The use of passive modalities in the treatment of sub-acute or chronic conditions beyond the acute inflammatory response time frame is generally considered not medically necessary unless there is an exacerbation. The use of passive modalities is generally considered not medically necessary unless they are preparatory and essential to the safe and effective delivery of other skilled treatment procedures (e.g., chiropractic manipulation, therapeutic exercise training, etc.). Prolonged reliance on passive modalities is not supported by the clinical literature.

A "passive therapy" is a procedure applied by a clinical practitioner without active engagement of or movement by the patient. (e.g., ultrasound, hot packs)

 The selection of a passive modality should be based on an understanding of the known physiologic effects of the modality, contraindications, the stage of injury and/or tissue healing, anatomical location to be treated, patient specific conditions and the likelihood of the therapy to enhance recovery or facilitate treatment with manual and active therapeutic procedures. Use of more than two (2) modalities on each visit date is unusual and should be justified in the documentation.

Transition from passive modalities to active treatment procedures should be timely and evidenced in the medical record, including instructions on self/home care. Active therapeutic procedures are typically initiated as swelling, pain, and inflammation are reduced. Active care elements include increasing range of motion, strengthening primary and secondary stabilizers of a given region, and increasing the endurance capability of the muscles. Activities of Daily Living training, muscle strengthening, movement retraining, and progressive resistive exercises are considered active procedures. Patients should progress from active procedures requiring the supervision of a skilled practitioner to a self-directed home activity program as soon as possible.

5.2 Treatment Interventions

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

Hydrotherapy/Whirlpool/Hubbard Tank

These modalities involve supervised use of agitated water in order to relieve muscle spasm, improve circulation, or cleanse wounds e.g., ulcers, skin conditions. Hydrotherapy may be

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considered medically necessary for pain relief, muscle relaxation and improvement of movement for persons with musculoskeletal conditions or for wound care (cleansing and debridement).

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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

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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.

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Mechanical Traction

This device provides a mechanical pull on the spine (cervical or lumbar) to relieve pain, spasm, and nerve root compression. Mechanical traction may be considered medically necessary only when there is no improvement after the application of other evidence-based therapeutic procedures to significantly improve symptoms for 3 weeks; the patient has signs of nerve root compression or radiculopathy; it is used in combination with other evidence-based treatments including therapeutic exercise with extension movements.

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Axial Decompression Therapy (aka Decompression Therapy or Spinal Decompression Therapy Are considered experimental and not medically necessary.

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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 considered unless there is a contraindication to those other forms of heat. Utilization of the Infrared light therapy CPT code is not appropriate for low level laser treatment.

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Electrical Stimulation

Various types and frequencies of electrical stimulation is used to relieve pain, reduce swelling, heal wounds, and improve muscle function. Functional electric stimulation may be considered medically necessary for muscle re-education (to improve muscle contraction) in the earlier phases of rehabilitation.

Iontophoresis

Electric current used to transfer certain chemicals (medications) into body tissues. Use of iontophoresis may be considered medically necessary for the treatment of inflammatory conditions, such as plantar fasciitis and lateral epicondylitis.

Contrast Baths

This modality is the application of alternative hot and cold baths and is typically used to treat extremities with subacute swelling or chronic regional pain syndrome (CRPS). Contrast baths may be considered medically necessary to reduce hypersensitivity reduction and swelling.

Ultrasound

This modality provides deep heating through high frequency sound wave application. Non-thermal applications are also possible using the pulsed option. Ultrasound is commonly used to treat many soft tissue conditions that require deep heating or micromassage to a localized area to relieve pain and improve healing. Ultrasound may be considered medically necessary to relieve pain and improve healing.

Diathermy

Shortwave diathermy utilizes high frequency magnetic and electrical current to provide deep heating to larger joints and soft tissue, and may be considered medically necessary for pain relief, increased circulation, and muscle spasm reduction. Microwave diathermy presents an unacceptable risk profile and is considered not medically necessary.

Therapeutic Exercises

Therapeutic exercise includes instruction, feedback, and supervision of a person in an exercise program specific to their condition. Therapeutic exercise 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. Exercise performed by the patient within a clinic facility or other location (e.g., home; gym) without a physician or therapist present and supervising would be considered not medically necessary.

Neuromuscular Reeducation (NMR)

NMR generally refers to a treatment technique performed for the purpose of retraining the connection of the brain and muscles, via the nervous system, the level of communication to improve movement, strength, balance and function. The goal of NMR is to develop conscious control of individual muscles and awareness of position of extremities. The procedure may be considered medically necessary for impairments which affect the neuromuscular system (e.g., poor static or dynamic sitting/standing balance, loss of gross and fine motor coordination) that may result from musculoskeletal or neuromuscular disease or injury such as severe trauma to nervous system, post orthopedic surgery, cerebral

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vascular accident, and systemic neurological disease. Example techniques may include: proprioceptive neuromuscular facilitation (PNF), BAP's boards, vestibular rehabilitation, and desensitization techniques. This does not include contract/relax or other soft tissue massage techniques. NMR is typically used as the precursor to the implementation of Therapeutic Activities.

Aquatic Therapy

Pool therapy (aquatic therapy) is provided individually, in a pool, to debilitated or neurologically impaired individuals. (The term is not intended to refer to relatively normal functioning individuals who exercise, swim laps or relax in a hot tub or Jacuzzi.) The goal is to develop and/or maintain muscle strength and range of motion by reducing forces of gravity through total or partial body immersion (except for head). Aquatic therapy may be considered medically necessary to develop and/or maintain muscle strength and range of motion when it is necessary to reduce the force of gravity through partial body immersion.

Gait Training

This procedure involves teaching patients with neurological or musculoskeletal disorders how to ambulate given their disability or to ambulate with an assistive device. Assessment of muscle function and joint position during ambulation is considered a necessary component of this procedure, including direct visual observation and may include video, various measurements, and progressive training in ambulation and stairs. Gait training may be considered medically necessary for patients whose walking abilities have been impaired by neurological, integumentary, muscular or skeletal abnormalities, surgery, or trauma. This also includes crutch/cane ambulation training and re-education.

Therapeutic Massage

Therapeutic Massage involves the application of fixed or movable pressure, holding and/or causing movement of or to the body, using primarily the hands and may be considered medically necessary when performed to restore muscle function, reduce edema, improve joint motion, or relieve muscle spasm caused by a specific condition or injury.

Soft Tissue Mobilization

Soft tissue mobilization techniques are more specific in nature and include, but are not limited to, myofascial release techniques, friction massage, and trigger point techniques. Specifically, myofascial release is a soft tissue manual technique that involves manipulation of the muscle, fascia, and skin. Skilled manual techniques (active and/or passive) are applied to soft tissue to effect changes in the soft tissues, articular structures, neural or vascular systems. Examples are facilitation of fluid exchange, restoration of movement in acutely edematous muscles, or stretching of shortened connective tissue. This procedure is considered medically necessary for treatment of pain and restricted motion of soft tissues resulting in functional deficits.

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Therapeutic Activities

Therapeutic activities or functional activities (e.g., bending, lifting, carrying, reaching, pushing, pulling, stooping, catching and overhead activities may be considered medically necessary) to improve function when there has been a loss or restriction of mobility, strength, balance or coordination. These dynamic activities must be part of an active treatment plan and directed at a specific outcome. This intervention may be considered medically necessary after a patient has completed exercises focused on strengthening and range of motion but needs to improve function-based activities.

Activities of Daily Living (ADL) Training

This procedure is considered medically necessary to enable the patient to perform essential activities of daily living, instrumental activities of daily living and self-care including bathing, feeding, preparing meals, toileting, dressing, walking, making a bed, and transferring from bed to chair, wheelchair, or walker.

Orthotic Management and Training

Orthotic management and training may be considered medically necessary when the documentation specifically demonstrates that the specific knowledge, skills, and judgment of a Chiropractor are required to train the patient in the proper us of braces and/or splints (orthotics). Many braces or splints do not require specific training by the Chiropractor in their use and can be safely procured and applied by the patient. Patients with cognitive, dexterity, or other significant deficits may need specific training where other patients do not.

Prosthetic Training

Prosthetic training may be considered medically necessary when the professional skills of the practitioner are required to train the patient in the proper fitting and use of a prosthetic (an artificial body part, such as a limb). Periodic return visits beyond the third month may be necessary.

Wheelchair Management Training

This procedure is considered medically necessary only when it is part of a broader active treatment plan directed at a specific goal. The patient must have the capacity to learn from instructions. Typically, three (3) sessions are adequate.

5.3 Precautions and Contraindications to Therapeutic Modalities and Procedures

- 1. The use of thermotherapy is contraindicated for the following:
 - Recent or potential hemorrhage
 - Thrombophlebitis
 - Impaired sensation

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1	Impaired mentation
2	Malignant tumor
3	IR irradiation of the eyes
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5	Precautions for use of thermotherapy include:
6	Acute injury or inflammation
7	 Pregnancy
8	Impaired circulation
9	Poor thermal regulation
10	• Edema
11	Cardiac insufficiency
12	Metal in the area
13	Over an open wound
14	Over areas where topical counterirritants have recently been applied
15	Demyelinated nerve
16	,
17	2. The use of cryotherapy is contraindicated for the following:
18	Cold hypersensitivity
19	Cold intolerance
20	Cryoglobulinemia
21	Paroxysmal cold hemoglobinuria
22	Raynaud disease or phenomenon
23	Over regenerating peripheral nerves
24	 Over an area with circulatory compromise or peripheral vascular disease
25	
26	Precautions for cryotherapy include:
27	Over the superficial branch of a nerve
28	Over an open wound
29	Hypertension
30	Poor sensation or mentation
31	2. The use of immersion hydrothereny is contraindicated for the following:
32 33	3. The use of immersion hydrotherapy is contraindicated for the following:Cardiac instability
33	 Caldiac instability Confusion or impaired cognition
35	Maceration around a wound
36	Bleeding
37	 Infection in the area to be immersed
38	Bowel incontinence
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2	Suicidal patients
3 4	Precautions for full body immersion in hot or very warm water include:
5	 Pregnancy
6	Multiple Sclerosis
7	Poor thermal regulation
8	
9	4. Contraindications for 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	
16	Precautions for Traction include:
17	• Structural diseases or conditions affecting the tissues in the area to be treated (e.g.,
18	tumor, infection, osteoporosis, RA, prolonged systemic steroid use, local radiation
19	therapy)
20	• When pressure of the belts may be hazardous (e.g., with pregnancy, hiatal hernia,
21	vascular compromise, osteoporosis)
22	Displaced annular fragment
23	Medial disc protrusion No. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24	When severe pain fully resolves with traction
25	Claustrophobia or other psychological aversion to traction
26	Inability to tolerate prone or supine position
27	• Disorientation
28 29	Additional precautions for cervical traction:
30	TMJ problems
31	Dentures
32	Dentures
33	5. The use of thermal shortwave diathermy (SWD) is contraindicated for the following
34	 Any metal in the treatment area or on/in the body.
35	 Malignancy
36	• Eyes
37	• Testes
38	Growing epiphyses
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• Severe epilepsy

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5	Precautions for all forms of SWD:
6	Near electronic or magnetic equipment
7	Obesity
8	 Copper-bearing intrauterine contraceptive devices
9 10	6. Contraindications for use of Electrical Currents:
11	• Demand pacemakers, implantable defibrillator, or unstable arrhythmia
12	 Placement of electrodes over carotid sinus
13	 Areas where venous or arterial thrombosis or thrombophlebitis is present
14	 Pregnancy – over or around the abdomen or low back
15	
16	Precautions for electrical current use:
17	Cardiac disease
18	Impaired mentation
19	 Impaired sensation
20	Malignant tumors
21	 Areas of skin irritation or open wounds
22	
23	7. Contraindications to the use of ultrasound include:
24	Malignant tumor
25	 Pregnancy
26	 Central Nervous Tissue
27	• Joint cement
28	 Plastic components
29	 Pacemaker or implantable cardiac rhythm device
30	 Thrombophlebitis
31	• Eyes
32	 Reproductive organs
33	
34	Precautions for Ultrasound include:
35	Acute inflammation
36	• Epiphyseal plates
37	• Fractures
38	Breast implants
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Implanted or transcutaneous neural stimulators including cardiac pacemakers

Contraindications for all forms of SWD:

Pregnancy

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3 4 The use of electrical muscle stimulation, SWD, thermotherapy, cryotherapy, ultrasound, laser/light therapy, immersion hydrotherapy, and mechanical traction with pediatric patients is contraindicated if the patient cannot provide the proper feedback necessary for safe application.

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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:

- Axial/Spinal decompression
- 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)

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5.4 Redundant Therapeutic Effects and Duplicative Rehabilitative or Habilitative Services

- (1) 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
 - Orthotics training and prosthetic training
 - Whirlpool and Hubbard tank
 - CMT and manual therapy techniques applied for same physiological purpose

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(2) Duplicative (same or similar) rehabilitative services provided by different healthcare practitioners/specialties for the same condition(s) are considered **not** medically necessary. When patients receive chiropractic services, physical therapy services, occupational therapy services, or other healthcare specialty services for the same condition(s), the healthcare practitioners should provide different treatments that reflect each healthcare discipline's unique perspective on the patient's impairments and functional deficits and not duplicate the same treatment therapeutic goals. Each healthcare specialty practitioner must also have separate and distinct evaluations, treatment plans, and goals.

6. CLINICAL DOCUMENTATION

Medical record keeping an essential component of patient evaluation and management. Medical records should be legible and should contain, at a minimum sufficient information to identify the patient, support the diagnosis, justify the treatment, accurately document the results, indicate advice and cautionary warnings provided to the patient and provide sufficient information for another practitioner to assume continuity of the patient's care at any point in the course of treatment. Good medical record keeping improves the likelihood 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 offers necessary information for third parties who need to review and understand the rationale and type of services rendered (e.g., medical billers and auditors/reviewers).

Outcome measures are important in determining effectiveness of a patient's care. The use 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 measures provide information about whether predicted outcomes are being realized. When comparison of follow-up with baseline outcome metrics does not demonstrate minimal clinically important difference (MCID) (minimal amount of change in a score of a valid outcome assessment tool) the treatment plan should be changed or be discontinued. Failure to use Functional Outcome Measures (FOMs) / Outcome Assessment Tools (OATs) may result in insufficient documentation of patient progress and may result in an adverse determination (partial approval or denial) of continued care.

6.1 Evaluation and Re-evaluations

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.

 The initial evaluation is usually completed in a single session. An evaluation is mandatory before implementing any chiropractic treatment in order to determine if the patient needs skilled chiropractic care. Initial evaluations (New or Established Patient) include an Evaluation and Management (E/M) history and physical examination service and may be supported by, as necessary, imaging, laboratory studies, and/or other diagnostic tests and measures. An initial evaluation is essential to determine whether any services that may be

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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 baseline data, establish a treatment plan, and develop goals based on the data.

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A reevaluation is considered medically necessary following a trial of care to determine whether that care resulted in significant clinical improvement documenting the need to continue a course of therapy, there is need for referral to other healthcare practitioner(s)/specialist(s), or that discontinuance of treatment is warranted.

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A reevaluation (an Established Patient E/M service) is considered medically necessary when **all** of the following conditions are met:

- The reevaluation exceeds the recurring routine assessment of patient status included in the work value of the Chiropractic Manipulation CPT codes work-value; and
- The documentation of the reevaluation includes **all** of the following elements:
 - o An evaluation of progress toward current goals; and
 - o Making a professional judgment about continued care; and
 - Making a professional judgment about revising goals and/or treatment or terminating services; and
- Any **one** of the following indications is documented:
 - The patient presents with an exacerbation, a new condition(s), or new clinical findings.
 - There is a significant change in the patient's condition(s).
 - The patient has failed to respond to the therapeutic interventions outlined in the current plan of care.

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In order to reflect that continued chiropractic services are medically necessary, intermittent progress reports must demonstrate that the patient is making functional progress. Progress reports should be maintained in the medical record and may be required for approval of coverage of services.

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A reevaluation is considered **not** medically necessary once it has been determined that the patient has reached maximum therapeutic benefit from the services provided unless there is/are medically necessary reason(s) documented for the reevaluation service.

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The CPT codebook provides the following definitions:

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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.

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.

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6.2 Treatment Sessions

Chiropractic treatment can vary from performing CMT alone to using a variety of therapeutic modalities and procedures depending on the patient's condition(s), response to care, and treatment tolerance. All services must be supported in the treatment plan and be based on the patient's medical condition(s)

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A chiropractic treatment session may include:

- Chiropractic Manipulation.
- Passive modalities such as electrotherapeutic and mechanical modalities preparatory to other skilled services.
- Active therapeutic procedures such as therapeutic exercise, functional activities, or manual therapies such as soft tissue mobilization or joint mobilization.
- Functional training in self-care and home management or modification of environments (e.g., home, work, school, community) including biomechanics and ergonomics.
- Application, fitting, and training in assistive technology, adaptive devices, orthotics, and prosthetic devices.
- Reevaluation, if there is a significant change in the patient's condition, the patient has a new complaint(s), or there is a need to update and modify the treatment plan and goals.

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Documentation of each treatment session should include at a minimum:

- Date of treatment:
- Subjective complaints and current status (including functional deficits and ADL restrictions);
- Description/name of each specific treatment intervention provided, including;
 - The type and specific location of CMT including segment(s) adjusted, subluxation listings/dynamic restrictions, direction(s) of corrective thrust(s), and specific technique(s) used;
 - 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);
 - o 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;

- Any progress toward the goals in objective, measurable terms using consistent and comparable methods;
- Any changes to the plan of care;
- Recommendations for follow-up visit(s);
- Signature/electronic identifier, name and credentials of the treating clinician.

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The CMT service includes a brief pre-treatment evaluation of the patient's condition(s), as well as documentation of the patient's response post-treatment. Failure to appropriately perform and document these brief evaluations may result in an adverse determination (partial approval or denial) of those services.

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6.3 Discharge/Discontinuation of Intervention

The chiropractor discharges the patient from chiropractic services when the anticipated goals or expected outcomes for the patient have been achieved. The chiropractor discontinues intervention when the patient is unable to continue to progress toward goals or when they determine that the patient will no longer benefit from care.

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The discharge documentation includes:

- The status of the patient at discharge and the goals and outcomes attained.
- Appropriate date and authentication by the chiropractor who performed the discharge.
- When a patient is discharged prior to attainment of goals and outcomes, the status of the patient and the rationale for discontinuation.
- Initial, subsequent, and final FOMs scores.
- Proposed self-care recommendations, if applicable.
- Referrals to other health care practitioners/referring physicians, as appropriate.

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6.4 Duplicated / Insufficient Information

(1) Entries in the medical record should be contemporaneous, individualized, appropriately comprehensive, and made in a chronological, systematic, and organized manner. Duplicated/nearly duplicated medical records (a.k.a. cloned records) are not acceptable. It is not clinically reasonable or physiologically feasible that a patient's condition will be identical on multiple encounters. (Should the findings be identical for multiple encounters, it would be expected that treatment would end because the patient is not making progress toward current goals.)

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This includes, but not limited to:

• Duplication of information from one treatment session to another (for the same or different patient[s]);

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• Duplication of information from one evaluation to another (for the same or different patient[s]).

Duplicated medical records do not meet professional standards of medical record keeping and may result in an adverse determination (partial approval or denial) of those services.

(2) The use of a system of record keeping that does not provide sufficient information (e.g., checking boxes, circling items from lists, arrows, travel cards with only dates of visit and listings). These types of medical record keeping may result in an adverse determination (partial approval or denial) of those services.

Effective and appropriate records keeping that meet professional standards of medical record keeping document with adequate detail a proper assessment of the patient's status, the nature and severity of his/her complaint(s) or condition(s), and/or other relevant clinical information (e.g., history, parameters of each therapy performed, objective findings, progress towards treatment goals, response to care, prognosis.).

7. CLINICAL REVIEW PROCESS

Medical necessity evaluations require approaching the clinical data and scientific evidence from a global perspective and synthesizing the various elements into a congruent picture of the patient's condition and need for skilled treatment intervention. Clinical review decisions made by the CQEs are based upon the information provided by the treating practitioner in the submitted documentation and other related findings and information. Failure to appropriately document pertinent clinical information may result in adverse determinations (partial approval or denial) of those services. Therefore, thorough documentation of all clinical information that established the diagnosis/diagnoses and supports the intended treatment is essential.

7.1 Definition of Key Terminology used in Clinical Reviews

Chiropractic Maintenance Therapy Services

Chiropractic maintenance therapy services is defined as a treatment plan that seeks to prevent disease, promote health, correct subluxations unrelated to a diagnosed illness or injury, and prolong and enhance the quality of life and is not directed toward a specific condition that is expected to improve or resolve in a reasonable period of time (corrective care). Medicare also includes supportive care as maintenance care and considers all forms of chiropractic maintenance care as not covered. (Chiropractic maintenance therapy services are not generally covered under Commercial benefits.)

Chiropractic Supportive Care Services

Supportive care is treatment for patients who have reached maximum therapeutic benefit, but who fail to sustain this benefit and progressively deteriorate when there are periodic

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withdrawals of treatment. Supportive care follows appropriate application of passive and active care including rehabilitation and lifestyle modifications. Supportive care cannot be scheduled and should be rendered on an "as needed" basis (PRN) for up to 4 months in duration. Detailed and adequate documentation of each aspect and phase of intervention and patient's response to care is necessary to document the medical necessity of Supportive Care. Supportive care may be covered under some Commercial benefits.

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.)

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.

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.

If the patient continues to have significant complaints, impairments, and documented functional 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

Preventive Services

Preventive services are designed to reduce the incidence or prevalence of illness, impairment, and risk factors, and to promote optimal health, wellness, and function. These services are not designed or performed to treat or manage a specific health condition.

possible co-management or a different therapeutic approach.

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1 (Preventive services may or may not be covered under specific clients or through ASH benefits.)

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4 Acute

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

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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.

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Chronic

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

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Red Flag(s)

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

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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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Co-Morbid Condition(s)

The presence of a concomitant condition, that has an unrelated pathology or disease process, but may inhibit, lengthen, or alter in some way the expected response to care.

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7.2 Clinical Quality Evaluation

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

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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

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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.

The following items influence clinical service approvals:

- No evidence of contraindication(s) to services submitted for review;
- Complaints, exam findings, and diagnoses correlate with each other;
- Treatment Plan is supported by the nature and severity of complaints;
- Treatment Plan is supported by exam findings;
- Treatment Plan is expected to improve symptoms (e.g., pain, function) within a reasonable period of time;
- Maximum therapeutic benefit has not been reached;
- Treatment Plan requires the skills of the provider; and
- Demonstration of progression toward active home/self-care and discharge.

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 Durable Medical Equipment (DME)/supplies/appliances, 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.

 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 to appeal the decision through the Provider Appeals and Member Grievances process.

Non-approval / Denial

Occurs when none of the services submitted for review are determined to be medically necessary services. The most common causes for a non-approval/denial of all services are administrative or contractual in nature (e.g., ineligibility, reached plan benefit limits, non-coverage). Clinically, it is appropriate to deny continued/ongoing care if the patient's

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

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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 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.

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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).

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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:

- History
- Physical examination/evaluation
- Documented treatment plan and goals
- Estimated time of discharge

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In general, the initiation of care is warranted if there are no contraindications to prescribed care, there is reasonable evidence to suggest the efficacy of the prescribed intervention,

and the intervention is within the scope of services permitted by State or Federal law. The treatment submission for a disorder is typically structured in time-limited increments depending on clinical presentation. Dosage (frequency and duration of service) should be appropriately correlated with clinical findings, potential complications/barriers to recovery and clinical evidence. When the practitioner discovers that a patient is nonresponsive to the applied interventions within a reasonable time frame, re-assessment and treatment modification should be implemented and documented. If the patient's condition(s) worsen, the practitioner should take immediate and appropriate action to discontinue or modify care and/or make an appropriate healthcare referral.

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.

7.3 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.

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 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 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-evaluation.

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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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7.3.1 General Factors

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
 - Pre-operative/post-operative care
 - Medication use (type and compliance)

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Nature of Complaint(s)

- Acute and severe symptoms
- Functional testing results that display severe disability/dysfunction
- Pain that radiates below the knee or elbow (for spinal conditions)

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History

- Trauma resulting in significant injury or functional deficits
- Pre-existing pathologies/surgery(ies)
 - Congenital anomalies (e.g., severe scoliosis)
- Recurring exacerbations
- Prior episodes (e.g., >3 for spinal conditions)
 - Multiple new conditions which introduce concerns regarding the cause of these conditions

QOC reviewed and adopted 10/19/2023

Examination

- Severe signs/findings
- Results from diagnostic testing that are likely to impact coordination of care and response to care (e.g., fracture, joint instability, neurological deficits)

Assessment of Red Flags

At any time, the patient is under care, the practitioner is responsible for seeking and recognizing signs and symptoms that require additional diagnostics, treatment/service, and/or referral. A careful and adequately comprehensive history and evaluation in addition to ongoing monitoring during the course of treatment is necessary to discover potential serious underlying conditions that may need urgent attention. Red flags can present themselves at several points during the patient encounter and can appear in many different forms. If a red flag is identified during a medical necessity review, the CQE should communicate with the provider of services as soon as possible by telephone and/or through standardized communication methods. When a red flag is identified, the CQE may not approve services and recommend returning the patient back to the referring healthcare practitioner or referring the patient to other appropriate health care practitioner/specialist with the measure of urgency as warranted by the history and clinical findings.

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Due to the rarity of actual red flag diagnoses in clinical practice, it is emphasized that the practitioner does not need to perform expensive or invasive diagnostic procedures (e.g., x-ray, advanced imaging, laboratory studies) in the absence of suspicious clinical characteristics. Important red flags and events as well as the points during the clinical encounter at which they are likely to appear include but may not be limited to:

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Past or Current History

- Personal or family history of cancer
- Current or recent urinary tract, respiratory tract, or other infection
- Anticoagulant therapy or blood clotting disorder
- Metabolic bone disorder (osteopenia and osteoporosis)
- Unintended weight loss
 - Unexplained dizziness or hearing loss
 - Trauma with skin penetration
 - Immunosuppression (AIDS/ARC)

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Present Complaint

- Writhing or cramping pain
- Precipitation by significant trauma
- Pain that is worse at night or not relieved by any position
- Suspicion of cerebrovascular compromise

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To CQT for informational review 09/11/2023 CQT reviewed as informational 09/11/2023

To QIC for informational review 10/03/2023

QIC reviewed as informational 10/03/2023

To QOC for review and adoption 10/19/2023 QOC reviewed and adopted 10/19/2023

1	 Symptom's indicative of progressive neurological disorder
2 3	Physical Examination/Assessment
4	Inability to reproduce symptoms of musculoskeletal diagnosis or complaints
5	Pulsing abdominal mass
6	 Fever, chills, or sweats without other obvious source
7	 New or recent neurologic deficit (special senses, sensory, language, and motor)
8	 Signs of carotid/vertebrobasilar insufficiency
9	Uncontrolled hypertension
10	Signs of nutritional deficiency
11	 Signs of fluctuoidal deficiency Signs of allergic reaction requiring immediate attention
12	Abuse/neglect
	Psychological distress
13 14	• Fsychological distress
15	Pattern of Symptoms Not Consistent with Benign Disorder
16	Chest tightness, difficulty breathing, chest pain
17	Headache of morbid proportion
18	Rapidly progressive neurological deficit
19	Significant, unexplained extremity weakness or clumsiness
20	Change in bladder or bowel function
21	New or worsening numbness or paresthesia
22	Saddle anesthesia
23	New or recent bilateral radiculopathy
24	The state of the s
25	Lack of Response to Appropriate Care
26 27	• History of consultation/care from a series of practitioners or a variety of health care approaches without resolving the patient's complaint
28	• Unsatisfactory clinical progress, especially when compared to apparently similar
29	cases or natural progression of the condition
30	• Signs and symptoms that do not fit the normal pattern and are not resolving
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32	Assessment of Yellow Flags
33	When yellow flags are present, clinicians need to be vigilant for deviations from the normal
34	course of illness and recovery. Examples of yellow flags include depressive symptoms,
35	injuries still in litigation, signs, and symptoms not consistent with pain severity, and
36	behaviors incongruent with underlying anatomic and physiologic principles.
37	
38	If a yellow flag is identified during a medical necessity review, the reviewer should
39	communicate with the provider of services as soon as possible by telephone and/or through
40	standardized communication methods. CQE may recommend returning the patient back to
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the referring healthcare practitioner or referring the patient to other health care practitioner/specialist as appropriate.

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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.
- 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.

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Assessment of Examination Findings

- The exam procedures, level of complexity, and intensity are appropriate for the patient's complaint(s) and historical findings.
- Objective palpatory, orthopedic, neurologic, and other 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 differential 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.

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• 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

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- 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

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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 a Chiropractor. 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.

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 The use of passive modalities in the treatment of subacute or chronic conditions beyond the acute inflammatory response phase requires documentation of the anticipated benefit and condition-specific rationale in order to be considered medically necessary.

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• The treatment plan includes the use of therapeutic procedures to address functional deficits and ADL restrictions.

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• The set therapeutic goals are functionally oriented, realistic, measurable, and evidence based.

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• The proposed date of release/discharge from treatment is clearly defined.

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The treatment/therapies are appropriately correlated with the nature and severity of the patient's condition(s) and set treatment goals.
Functional Outcome Measures (FOM) demonstrate minimal clinically important

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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 practitioners/specialist is indicated.

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• Home care, self-care, and active-care instructions are documented.

32 33 34 • Durable Medical Equipment (DME), supplies, appliances, and supports are provided when medically necessary and appropriately correlated with clinical findings and clinical evidence.

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Assessment of Diagnostic Imaging / Special Studies

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 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

- 1 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 evaluated for structural integrity and to rule out osseous, related soft tissue pathology, or other pathology.
 - EMG and NCV studies, when medically necessary and/or available, are evaluated for objective evidence of neural deficit. For more information, see the *Electrodiagnostic Testing (CPG 129 S)* clinical practice guideline.
 - Imaging or special studies' findings are appropriate given the nature and severity of the patient's condition(s) and the findings obtained are likely to influence the basis for the proposed treatment.

7.3.2 Factors that Influence Adverse Determinations of Clinical Services (Partial Approvals/Denials)

Factors that influence adverse determinations of clinical services may include but are not limited to these specific considerations and other guidelines and factors identified elsewhere in this policy.: Topics/factors covered elsewhere in this guideline are also applicable in this section and may result in an adverse determination on medical necessity review. To avoid redundancy, many of those factors have not been listed below.

Additional Factors Considered in Determination of Medical Necessity History / Complaints / Patient Reported Outcome Measures

- The patient's complaint(s) and/or symptom(s) are not clearly described.
- There is poor correlation and/or a significant discrepancy between the complaint(s) and/or symptom(s) as documented by the treating practitioner and as described by the patient.
- The patient's complaint(s) and/or symptom(s) have not demonstrated clinically significant improvement.
- The nature and severity of the patient's complaint(s) and/or symptom(s) are insufficient to substantiate the medical necessity of any/all submitted services.
- The patient has little or no pain as measured on a valid pain scale.
- The patient has little or no functional deficits using a valid functional outcome measure or as otherwise documented by the practitioner.

Evaluation Findings

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• There is poor - correlation and/or a significant discrepancy in any of the following:

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Subjective complaints
Objective findings
Diagnosis
Treatment plan
The application of various exam findings to diagnostic or treatment

o Patient's history

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- The application of various exam findings to diagnostic or treatment decisions are not clearly described or measured. (e.g., severity, intensity, professional interpretation of results, significance).
- The patient's objective findings have not demonstrated clinically significant improvement.
- The objective findings are essentially normal or are insufficient to support the medical necessity of any/all submitted services.
- The submitted objective findings are insufficient due to any of, but not limited to, the following reasons:
 - o Old or outdated relative to the requested dates of service
 - o Do not properly describe the patient's current status
 - Do not substantiate the medical necessity of the current treatment plan do not support the patient's diagnosis/diagnoses do not correlate with the patient's subjective complaint(s) and/or symptom(s)
- Not all of the patient's presenting complaints were properly examined.
- The patient does not have any demonstrable functional deficits or impairments.
- The patient has not made reasonable progress toward pre-clinical status or functional outcomes under the initial treatment/services.
- Clinically significant therapeutic progress is not evident through a review of the submitted records. This may indicate that the patient has reached maximum therapeutic benefit.
- The patient is approaching or has reached maximum therapeutic benefit.
- The patient's exam findings have returned to pre-injury status or prior level of function.
- There is inaccurate reporting of clinical findings.
- The exam performed is for any of the following:
 - o Wellness
 - o Pre-employment
 - Sports pre-participation
- The exam performed is non-standard and solely technique/protocol based.
- The procedure(s) used to validate subluxation(s) are considered not-evidence based, not widely accepted, and/or not reasonable or medically necessary (e.g., Functional leg length assessment, surface electromyographic study).

Diagnosis

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- The diagnosis is not supported by one or more of the following:
 - o Patient's history (e.g., date/mechanism of onset)
 - o Subjective complaints (e.g., nature and severity, location)
 - o Objective findings (e.g., not clearly defined and/or quantified, not professionally interpreted, significance not noted)

Submitted Medical Records

- The submitted records are insufficient to reliably verify pertinent clinical information, such as (but not limited to):
 - o Patient's clinical health status
 - The nature and severity of the patient's complaint(s) and/or symptom(s)
 - Date/mechanism of onset
 - Objective findings
 - o Diagnosis/diagnoses
 - o Response to care
 - Functional deficits/limitations
- There are daily notes submitted for the same dates of service with different/altered findings without an explanation.
- There is evidence of duplicated or nearly duplicated records for the same patient for different dates of service, or for different patients.
- There is poor correlation and/or a significant discrepancy between the information presented in the submitted records with the information presented during a verbal communication between the reviewing CQE and treating practitioner.
- The treatment time (in minutes) and/or the number of units used in the performance of a timed service (e.g., modality, procedure) during each encounter/office visit was not documented.
- Some or all of the service(s) submitted for review are not documented as having been performed in the daily treatment notes.

Treatment / Treatment Planning

- The submitted records show that the nature and severity of the patient's complaint(s) and/or symptom(s) require a limited, short trial of care in order to monitor the patient's response to care and determine the efficacy of the current treatment plan. This may include, but not limited to, any of the following:
 - o Significant trauma affecting function
 - o Acute/sub-acute stage of condition
 - o Moderate-to-severe or severe subjective and objective findings
 - o Possible neurological involvement

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- Presence of co-morbidities that may significantly affect the treatment plan and/or the patient's response to care
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- There is poor correlation of the treatment plan with the nature and severity of the patient's complaint(s) and/or symptom(s), such as (but not limited to):

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Use of acute care protocols for chronic condition(s)

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Prolonged reliance on passive care
 Active care and reduction of passive care are not included in the treatment

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o Inappropriate use of passive modalities in the plan of care

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• Use of passive modalities as stand-alone treatments (which is rarely therapeutic) or as the sole treatment approach to the patient's condition(s)

12 13 There is evidence from the submitted records that the patient's treatment can proceed safely and effectively through a home exercise program or self-management program.

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The patient's function has improved, complaints and symptoms have decreased, and patient requires less treatment (e.g., lesser units of services per office visit, lesser frequency, shorter total duration to discharge).

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The patient's symptoms and/or exam findings are mild and the patient's treatment plan requires a lesser frequency (e.g., units of services, office visits per week) and/or total duration.

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• Therapeutic goals have not been documented. Goals should be measurable and written in terms of function and include specific parameters.

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Therapeutic goals have not been reassessed in a timely manner to determine if the patient is making expected progress.

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• Failure to make progress or respond to care as documented within subjective complaints, objective findings and/or functional outcome measures.

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• The patient's condition(s) is/are not amenable to the proposed treatment plan.

28 29 Additional significant improvement cannot be reasonably expected by continued treatment and treatment must be changed or discontinued.

30 31 The patient has had ongoing care without any documented lasting therapeutic benefits.
The condition requires an appropriate referral and/or coordination with other

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appropriate health care services.
The patient is not complying with the treatment plan that includes lifestyle changes to help reduce frequency and intensity of symptoms.

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• The patient is not adhering to treatment plan that includes medically necessary frequency and intensity of services.

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 The use of multiple passive modalities with the same or similar physiologic effects to the identical region is considered redundant and not reasonable or medically necessary.

- Home care, self-care, and active-care instructions are not implemented or documented in the submitted records.
 - Uncomplicated diagnoses do not require services beyond the initial treatment plan before discharging the patient to active home/self-care.
 - As symptoms and clinical findings improve the frequency of services (e.g., visits per week/month) did not decrease.
 - The submitted services do not or no longer require the professional skills of the treating practitioner.
 - The treatment plan is for any of the following:
 - o Chiropractic maintenance therapy
 - o Preventive care
 - o Elective/convenience/wellness care
 - Back school

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- o Group therapy (not one-on-one)
- Vocational rehabilitation or return to work programs
- Work hardening programs
- o Routine educational, training, conditioning, return to sport, or fitness.
- Non-covered condition
- There is duplication of services with other healthcare practitioners/specialties.
- The treatment plan is not supported due to, but not limited to, any of the following reasons:
 - o Technique-/protocol-based instead of individualized and evidence based
 - o Generic and not individualized for the patient's specific needs
 - O Does not correlate with the set therapeutic goals
 - o Not supported in the clinical literature (e.g., proprietary, unproven)
 - Not considered evidence-based and/or professionally accepted
- The treatment plan includes services that are considered not evidence-based, not widely accepted, unproven and/or not reasonable or medically necessary, or inappropriate or unrelated to the patient's complaint(s) and/or diagnosis/diagnoses. (e.g., Low level laser therapy, axial/spinal decompression, select forms of EMS such as microcurrent, H-wave. Also see the *Techniques and Procedures Not Widely Supported as Evidence-Based (CPG 133 S)* clinical practice guideline for complete list).

Health and Safety

• There are signs, symptoms and/or other pertinent information presented through the patient's history, exam findings, and/or response to care that require urgent attention, further testing, and/or referral to and/or coordination with other healthcare practitioners/specialists.

- There is evidence of the presence of Yellow and/or Red Flags. (See section on Red and Yellow Flags above.)
 - There are historical, subjective, and/or objective findings which present as contraindications for the plan of care.

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7.3.3 Referral / Coordination of Services

When a potential health and safety issue is identified, the CQE must communicate with the provider of services as soon as possible by telephone and/or through standardized communication methods to recommend returning the patient back to the referring health care practitioner or referring the patient to other appropriate health care practitioner/specialist with the measure of urgency as warranted by the history and clinical findings.

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Clinical factors that may require referral or coordination of services include, but not limited to:

- Symptoms worsening following treatment
- Deteriorating condition (e.g., orthopedic or neurologic findings, function, etc.)
- Reoccurring exacerbations despite continued treatment
- No progress despite treatment
- Unexplained diagnostic findings (e.g., suspicion of fracture)
- Identification of Red Flags
- Identification of co-morbid conditions that don't 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

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8. CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)

ASH manages CMS Required and Supplemental benefits for Medicare Advantage Plans. Required (Traditional) Medicare benefits are covered based on CMS guidelines and regulations, CMS approved ICD defined conditions and CPT defined services. ASH practitioners are required to follow CMS clinical requirements for the appropriate delivery and documentation of services rendered to Medicare beneficiaries who are served by ASH Medicare Advantage health plan clients.

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8.1 Covered Conditions

Required Medicare Benefits

Required Medicare benefits only cover manual manipulation of the spine to correct a subluxation of the spine. A subluxation may be demonstrated by x-ray or by physical

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Chiropractic Services Medical Policy/Guideline
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QOC reviewed and adopted 10/19/2023

examination. To demonstrate by examination, evaluation of the musculoskeletal/nervous system should include:

- Pain/tenderness evaluated in terms of location, quality, and intensity;
- Asymmetry/misalignment identified on a sectional or segmental level;
- Range of motion abnormality (changes in active, passive, and accessory joint movements); and
 - Tissue, tone changes in the characteristics of contiguous, or associated soft tissues, including skin, fascia, muscle, and ligament.

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To demonstrate a subluxation based on physical examination, two of the four criteria identified above are required, one of which must be asymmetry/misalignment or range of motion abnormality.

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The five spinal regions are:

- Neck (Occiput, C1 C7)
- Back (T1 − T12)
 - Low Back (L1 − L5)
 - Pelvis (Ilium, SI)
 - Sacrum (Sacrum, Coccyx)

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Required Medicare benefits do not cover treatment to extraspinal regions.

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Supplemental Medicare Benefits

ASH Medicare Advantage health plan clients may include additional covered musculoskeletal conditions beyond those included in the Required Medicare Benefit as described in a client specific benefit design.

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8.2 Covered Services

Required Medicare Benefits

- Required Medicare benefits cover manual manipulation of the spine by use of the hands.
- 31 Additionally, manual devices may be used in performing manipulation of the spine,
- however, no additional payment is available for the use of a device.

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Supplemental Medicare Benefits

- 35 ASH Medicare Advantage health plan clients may include additional covered services.
- 36 Additional services may include: extraspinal manipulation, evaluation and management
- services, physical medicine modalities and procedures, and x-rays. The decision on which
- additional covered services are included in a benefit design is made by the ASH Medicare
- 39 Advantage health plan client. Benefit designs may differ by health plan client.

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Maintenance Care

Maintenance care includes services that seek to prevent disease, promote health, and prolong and enhance the quality of life, or maintain or prevent deterioration of a chronic condition. Medicare includes supportive care as maintenance care and considers all forms of chiropractic maintenance care as not covered. Medicare defines supportive care as: when further clinical improvement cannot reasonably be expected from continuous ongoing care, and the chiropractic treatment becomes supportive rather than corrective in nature, the treatment is then considered maintenance therapy.

8.3 Documentation

For Medicare and Medicaid services, medical records keeping must follow and be in accordance with Medicare and any additional state Medicaid required documentation guidelines.

8.4 Medical Necessity

CMS provides guidance for medical necessity determination based on the Medicare Benefit Policy Manual, Chapter 15, and limited Local Coverage Determinations (LCD). There is no National Coverage Determination (NCD) for chiropractic. Local Coverage Articles (LCA) may include language regarding medical necessity. When Medicare policy guidance for medical necessity is sufficient and clear to guide medical necessity decisions, the applicable Medicare guidance should be used in medical necessity review determinations. If the Medicare guidance for medical necessity review determinations is not clear or is insufficient in providing adequate guidance for a medical necessity determination for chiropractic services, the next policy in line used in making medical necessity review decisions would be the ASH *Chiropractic Services Medical Policy Guideline (CPG 278 – S)* clinical practice guideline. If applicable this policy will provide guidance for medical necessity review determination,

This 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 treating providers 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.

9. LITERATURE REVIEW

There are several guidelines, systematic reviews, meta-analyses, and randomized controlled trials (RCTs) published that examine chiropractic manipulative therapy for various spinal conditions and other procedures (e.g., physical rehabilitation, exercise, education, manual therapies (e.g., mobilization, soft tissue mobilization) and note effectiveness (Qaseem et al., 2020; Bricca et al., 2020; Raghava Neelapala et al., 2020; Taylor et al., 2007; Chou et al., 2016; Qaseem et al., 2017; Byström et al., 2013; Macedo

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et al., 2016; Saragiotto et al., 2016; Steffens et al., 2016; van Middelkoop et al., 2011; 1 Hurwitz et al., 2009; Delitto et al., 2012; Blanpied et al., 2017; BiDonde et al., 2019; 2 Yousefi-Nooraie et al., 2008; Chou et al., 2020; Skelly et al., 2018; Skelly et al., 2020; 3 Wheden et al., 2022; Jenks et al., 2022). Passive modalities, such as ultrasound, electric 4 stimulation, traction, laser, and hot and cold packs, are often used in combination with 5 manual therapies and exercise despite insufficient and/or inconclusive evidence for many 6 conditions. Often methodologic flaws and heterogeneity of studies result in an inability to 7 draw confirmatory conclusions. 8

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Massage Therapy: Few clinical trials have been undertaken to assess the effect of this modality alone in the treatment of specific medical conditions. Rehabilitation programs frequently combine massage therapy with one or more other treatment interventions. While there is scant literature regarding the efficacy of this treatment when used as the sole modality, massage therapy has been a part of physical therapy or chiropractic treatment plans for the management of musculoskeletal pain. As an example, for mechanical low back pain, the greatest effects of massage therapy are seen in short term relief of pain. The effects on function were less clear. These therapeutic effects tend to diminish in the longer term (Chou et al., 2016). Massage therapy was also noted as an effective treatment of acute post-operative pain (Chou et al., 2020) and chronic low back pain in the intermediate term (Skelly et al., 2018). Slight functional improvements were noted in the intermediate term for fibromyalgia using myofascial release massage (Skelly et al., 2018; Kundakci et al., 2022).

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9.1 Conditions Considered Unproven

Scoliosis

Scoliosis, lateral curvature of the spine, is a structural alteration that occurs in a variety of conditions. Progression of the curvature during periods of rapid growth can result in significant deformity, which may be accompanied by cardiopulmonary compromise (Schreiber et al., 2019; Scherl, 2016). Options for treatment of scoliosis include observation, bracing, and surgery. Evidence is insufficient to demonstrate effectiveness of physical therapy (scoliosis-specific exercises, (including the Schroth Method), chiropractic treatment, electrical stimulation, or biofeedback to correct, improve or prevent further curvature (Seleviciene et al., 2022; Santos et al., 2022; Fan et al., 2020; Schreiber et al., 2019; Scherl, 2016; National Institutes of Health [NIH]/National Institute of Arthritis and Musculoskeletal and Skin Disease [NIAMS], 2019; American Academy of Orthopedic Surgeons [AAOS], 2019; Mehlman, 2020; Romano, et al., 2012).

Evidence is insufficient to demonstrate effectiveness of this treatment method to correct, 38 improve or prevent further curvature. 39

9.2 Specific Treatments Considered Unproven

23 **Dry Hydrotherapy**

- Dry hydrotherapy, also referred to as aquamassage, water massage, or hydromassage, is a treatment that incorporates water with the intent of providing therapeutic massage. The
- treatment that incorporates water with the intent of providing therapeutic massage. The treatment is generally provided in chiropractor or physical therapy offices. There are
- several dry hydrotherapy devices available that provide this treatment, including the following:
 - Aqua Massage® (AMI Inc., Mystic, CT)
 - AquaMED® (JTL Enterprises, Inc., Clearwater, FL)
 - H2OMassage SystemTM (H2OMassage Systems, Winnipeg, MB, Canada)
 - Hydrotherapy Tables (Sidmar Manufacturing, Inc., Princeton, MN)

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Proponents of dry hydrotherapy maintain that it can be used in lieu of certain conventional physical medicine therapeutic modalities and procedures, such as heat packs, wet hydrotherapy, massage, and soft tissue manipulation. The assertions that have been made by manufacturers of this device at their websites have not yet been proven. No published studies or information regarding dry hydrotherapy devices or dry hydrotherapy treatment were identified in the peer-reviewed scientific literature. In the absence of peer-reviewed literature demonstrating the effectiveness of dry hydrotherapy and in the absence of comparison to currently accepted treatment modalities, no definitive conclusions can be drawn regarding the clinical benefits of this treatment.

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Non-invasive Interactive Neurostimulation (e.g., InterX®)

25 Refer to *Non-invasive Interactive Neurostimulation (InterX®) (CPG 277 – S) clinical* 26 practice guideline for more information.

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Microcurrent Electrical Nerve Stimulation (MENS)

For more information, see Electric Stimulation for Pain, Swelling and Function in the Clinic Setting (CPG 272 – S) clinical practice guideline.

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H-WAVE ®

Refer to *H-WAVE*[®] *Electrical Stimulation (CPG 269 – S) clinical practice guideline* for more information.

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Spinal Manipulation for the Treatment of Non-Musculoskeletal Conditions and

37 **Related Disorders**

- 38 Refer to Spinal Manipulative Therapy for Non-Musculoskeletal Conditions and Related
- 39 *Disorders (CPG 119 S) clinical practice guideline* for more information.

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1 Taping/Elastic therapeutic tape (e.g., Kinesio[™] tape, Spidertech[™] tape)

2 Refer to Strapping and Taping (CPG 143 – S) clinical practice guideline for more information.

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Dry Needling

Refer to Dry Needling (CPG 178 – S) clinical practice guideline for more information.

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Laser Therapy (LT)

9 Refer to Laser Therapy (LT) (CPG 30 - S) clinical practice guideline for more information.

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Vertebral Axial Decompression Therapy and Devices

Refer to Axial/Spinal Decompression Therapy (CPG 83 – S) clinical practice guideline for more information.

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