

Clinical Practice Guideline: Casting and Splinting

Date of Implementation: April 19, 2012

Effective Date: July 23, 2026

Program: Specialty

GUIDELINES

American Specialty Health – Specialty (ASH) considers:

- I. Casting or splinting for non-displaced fractures, muscle spasticity, and contracture when performed by an appropriately trained practitioner to properly set and stabilize bone or improve movement patterns is considered medically necessary. Casting should not be utilized for basic contracture management issues.
- II. Air Casts are considered medically necessary for treatment of fractures or other injuries (i.e., sprains, torn ligaments). Air Casts (air splints) are used as an alternative to plaster casts to immobilize an elbow, ankle, or knee. Air Casts are considered experimental and investigational for other indications because their effectiveness for indications other than the one listed above has not been established.
- III. Casting of a fracture or severe sprain is considered medically necessary.
- IV. Casting following surgical procedures is also considered medically necessary.
- V. Certain orthopedic problems are routinely treated with splints or splint-like devices. The following are considered medically necessary: acromio-clavicular splint (also called a Zimmer splint), carpal tunnel splints, clavicle figure-8 splint, Denis Browne splint for children with clubfoot or metatarsus valgus to maintain and correct abduction, finger splints and shoulder immobilizers.
- VI. Dynamic splinting devices (e.g., Dynasplint®) for the knee, elbow, forearm, wrist, ankle, or finger are medically necessary if one of the following is met:
 - a) As an adjunct to physical and occupational therapy when patient has demonstrated and documented signs and symptoms of significant motion loss and stiffness in the sub-acute injury or post-operative period (greater than or equal to 3 weeks but less than or equal to 4 months after injury or operation); or

- b) For patients with previously demonstrated and documented history of motion loss and stiffness in a joint, has had a surgery or procedure performed to improve motion of that joint, and are in the acute post-procedure/surgical period following a second or subsequent procedure or surgery; or
- c) For patients who are unable to benefit from standard physical and occupational therapy modalities because of inability to exercise. If there is no significant change in range of motion after a 4-month period, use of the device is considered as maintenance and thus, not medically necessary, and appropriate.

Dynamic splinting devices are also considered medically necessary in conjunction with botulinum toxin injections and physical and occupational therapy, for the management of orthopedic conditions with associated joint contractures and neurologic disorders with associated spasticity and contractures (e.g., post-CVA, traumatic brain injury).

Use of dynamic splinting devices for joints and/or situations other than those indicated above, and in the management of chronic joint stiffness and/or chronic or fixed contractures, is considered unproven.

Note:

Although there is inadequate data published in the peer reviewed medical literature regarding the effectiveness of dynamic splinting devices in improving range of motion, this type of device has been widely used in the orthopedic and physical and occupational therapy communities for select patient population. It is on the basis of national community standards that the use of dynamic splinting devices in specific clinical situations (as indicated in the policy statement above) is considered reasonable and medically appropriate.

The application of external immobilization devices (casts, splints, strapping) at the time of a procedure includes the subsequent removal of the device when performed by the same entity (e.g., physician, practice, group, employees) Providers/suppliers shall not report removal or repair CPT codes 29700-29750 for those services. These removal or repair CPT codes may only be reported if the initial application of the cast, splint, or strapping was performed by a different entity.

Casting/splinting/strapping CPT codes shall not be reported for application of a dressing after a therapeutic procedure.

1 Casting/splinting/strapping shall not be reported separately if a service from the
2 Musculoskeletal System section of CPT (20100-28899 and 29800-29999) is also
3 performed for the same anatomic area.

4
5 Debridement including removal of foreign material at the site of an open fracture or open
6 dislocation may be reported with CPT codes 11010-11012. Since these codes would be
7 reported with a CPT code for treatment of the open fracture or dislocation, a
8 casting/splinting/strapping code shall not be reported separately.

9
10 Fracture and dislocation CPT codes include the initial casting, strapping, or splinting.

11
12 CPT codes for closed, percutaneous, or open treatment of fractures or dislocations include
13 the application of casts, splints, or strapping. CPT codes for casting/splinting/strapping
14 shall not be reported separately.

15
16 If a physician treats a fracture, dislocation, or injury with an initial cast, strap, or splint and
17 also assumes the follow-up care, the provider/supplier cannot report the
18 casting/splinting/strapping CPT codes since these services are included in the fracture
19 and/or dislocation CPT codes.

20
21 If a physician treats a fracture, dislocation, or injury with a cast, splint, or strap as an initial
22 service without any other definitive procedure or treatment and only expects to perform the
23 initial care, the provider/supplier may report an E&M service, a casting/splinting/strapping
24 CPT code, and a cast/splint/strap supply code (Q4001-Q4051).

25
26 An E&M service, including emergency department E&M, may be reported with a
27 casting/splinting/strapping CPT code if and only if the E&M service is significant and
28 separately identifiable.

29
30 If a cast, strapping, or splint applied after an open or percutaneous treatment of a fracture
31 also treats a closed fracture without manipulation, a closed fracture without manipulation
32 CPT code shall not be reported separately. These principles also apply to the treatment of
33 multiple dislocations or combinations of multiple closed fractures and dislocations. If
34 multiple dislocations and/or fractures are treated without manipulation and stabilized with
35 a single cast, strapping, or splint, only one CPT code for closed dislocation or fracture
36 treatment (without manipulation) may be reported.

37
38 Supplies for casting or splinting are only considered medically necessary if the need for
39 casting or splinting meets the criteria for medical necessity.

1 **CPT® Codes and Descriptions**

CPT® Code	CPT® Code Description
29010	Application of Risser jacket, localizer, body; only
29015	Application of Risser jacket, localizer, body; including head
29035	Application of body cast, shoulder to hips;
29040	Application of body cast, shoulder to hips; including head, Minerva type
29044	Application of body cast, shoulder to hips; including 1 thigh
29046	Application of body cast, shoulder to hips; including both thighs
29049	Application, cast; figure-of-eight
29055	Application, cast; shoulder spica
29058	Application, cast; plaster Velpeau
29065	Application, cast; shoulder to hand (long-arm)
29075	Application, cast; elbow to finger (short arm)
29085	Application, cast; hand and lower forearm (gauntlet)
29086	Application, cast; finger (e.g., contracture)
29105	Application of long arm splint (shoulder to hand)
29125	Application of short arm splint (forearm to hand); static
29126	Application of short arm splint (forearm to hand); dynamic
29130	Application of finger splint; static
29131	Application of finger splint; dynamic
29305	Application of hip spica cast; 1 leg
29325	Application of hip spica cast; 1 and 1/2 spica or both legs
29345	Application of long leg cast (thigh to toes)

CPT® Code	CPT® Code Description
29355	Application of Long leg cast (thigh to toes); walker or ambulatory type
29358	Application of long leg cast brace
29365	Application of cylinder cast (thigh to ankle)
29405	Application of short leg cast (below knee to toes)
29425	Application of short leg cast (below knee to toes); walking or ambulatory type
29435	Application of patellar tendon bearing (PTB) cast
29440	Adding walker to previously applied cast
29445	Application of rigid total contact leg cast
29450	Application of clubfoot cast with molding or manipulation, long or short leg
29505	Application of long leg splint (thigh to ankle or toes)
29515	Application of short leg splint (calf to foot)
29700	Removal or bivalving; gauntlet, boot or body cast
29705	Removal or bivalving; full arm or full leg cast
29710	Removal or bivalving; shoulder or hip spica, Minerva, or Risser jacket, etc.
29720	Repair of spica, body cast or jacket
29730	Windowing of cast
29740	Wedging of cast (except clubfoot casts)
29750	Wedging of clubfoot cast

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HCPSC Codes and Descriptions*

HCPSC Code	HCPSC Code Description
A4570	Splint

HCPCS Code	HCPCS Code Description
A4580	Cast supplies (e.g., plaster)
A4590	Special casting material (e.g., fiberglass)
E1800	Dynamic adjustable elbow extension/flexion device, includes soft interface material
E1801	Static progressive stretch elbow device, extension and/or flexion, with or without range of motion adjustment, includes all components and accessories
E1802	Dynamic adjustable forearm pronation/supination device, includes soft interface material
E1803	Dynamic adjustable elbow extension only device, includes soft interface material
E1804	Dynamic adjustable elbow flexion only device, includes soft interface material
E1805	Dynamic adjustable wrist extension / flexion device, includes soft interface material
E1806	Static progressive stretch wrist device, flexion and/or extension, with or without range of motion adjustment, includes all components and accessories
E1807	Dynamic adjustable wrist extension only device, includes soft interface material
E1808	Dynamic adjustable wrist flexion only device, includes soft interface material
E1810	Dynamic adjustable knee extension / flexion device, includes soft interface material
E1811	Static progressive stretch knee device, extension and/or flexion, with or without range of motion adjustment, includes all components and accessories
E1812	Dynamic knee, extension/flexion device with active resistance control
E1813	Dynamic adjustable knee extension only device, includes soft interface material
E1814	Dynamic adjustable knee flexion only device, includes soft interface material
E1815	Dynamic adjustable ankle extension/flexion device, includes soft interface material
E1816	Static progressive stretch ankle device, flexion and/or extension, with or without range of motion adjustment, includes all components and accessories

HCPCS Code	HCPCS Code Description
E1818	Static progressive stretch forearm pronation / supination device, with or without range of motion adjustment, includes all components and accessories
E1820	Replacement soft interface material, dynamic adjustable extension/flexion device
E1821	Replacement soft interface material/cuffs for bi-directional static progressive stretch device
E1822	Dynamic adjustable ankle extension only device, includes soft interface material
E1823	Dynamic adjustable ankle flexion only device, includes soft interface material
E1825	Dynamic adjustable finger extension/flexion device, includes soft interface material
E1826	Dynamic adjustable finger extension only device, includes soft interface material
E1827	Dynamic adjustable finger flexion only device, includes soft interface material
E1828	Dynamic adjustable toe extension only device, includes soft interface material
E1829	Dynamic adjustable toe flexion only device, includes soft interface material
E1830	Dynamic adjustable toe extension/flexion device, includes soft interface material
E1831	Static progressive stretch toe device, extension and/or flexion, with or without range of motion adjustment, includes all components and accessories
E1832	Static progressive stretch finger device, extension and/or flexion, with or without range of motion adjustment, includes all components and accessories.
E1840	Dynamic adjustable shoulder flexion / abduction / rotation device, includes soft interface material
E1841	Static progressive stretch shoulder device, with or without range of motion adjustment, includes all components and accessories
L0700	Cervical-thoracic-lumbar-sacral-orthoses (CTLSSO), anterior-posterior-lateral control, molded to patient model, (minerva type)
L0710	CTLSSO, anterior-posterior-lateral-control, molded to patient model, with interface material, (minerva type)
L4370	Pneumatic full leg splint, prefabricated, off-the-shelf

HCPCS Code	HCPCS Code Description
Q4049	Finger splint, static
Q4051	Splint supplies, miscellaneous (includes thermoplastics, strapping, fasteners, padding and other supplies)
S8450	Splint, prefabricated, digit (specify digit by use of modifier)
S8451	Splint, prefabricated, wrist or ankle
S8452	Splint, prefabricated, elbow

*This list includes common examples of related HCPCS codes and is not meant to be all-inclusive. This list may include HCPCS not applicable to Medicare. Medicare guidelines should be followed when applicable.

Casting may include other applications as medically necessary (e.g., CPT® code 29445). Refer to ASH clinical policy guideline *Rigid Total Contact Leg Cast (CPG 227 - S)* for CPT® code 29445.

For information on strapping and taping, see the *Strapping and Taping (CPG 143 – S)* clinical practice guideline.

INTRODUCTION

A cast is a “rigid dressing, molded to the body while pliable and hardening as it dries,” that provides firm support; it does not allow movement. A splint is any stiff device attached to a limb in order to discourage movement. There are two types of splints: static or dynamic. Static splints provide full immobilization, while dynamic splints allow some movement. Casting or splinting of non-displaced fracture(s) to properly set and stabilize bone for healing is indicated when performed by an appropriately trained health care practitioner. Medical necessity must be established via confirmatory radiological findings. The casting material used in fracture care can be either fiberglass or plaster. The choice of material is dictated by the individual situation and is left to the discretion of the treating doctor.

Casting and splinting techniques used by practitioners for positioning and stretching are medically necessary when an improvement can be noted in an individual’s movement patterns and skills or when increasing available range of motion is necessary. For example, a spastic hand can be casted or splinted to facilitate relaxation of the fingers. Serial casting or splinting can be essential for individuals with traumatic brain injury-induced spasticity, cerebrovascular accident (CVA), contractures, and other conditions. Casting or splinting goals should objectively indicate expectation of progress.

Dynamic splinting devices are spring-loaded, adjustable devices designed to provide low-load prolonged stretch while patients are asleep or at rest. Dynamic splinting devices are available for elbow, wrist, fingers, knee, ankle, and toes. These units are being marketed for the treatment of joint stiffness due to immobilization or limited range of motion (ROM) as a result of fractures, dislocations, tendon and ligament repairs, joint arthroplasties, total knee replacements, burns, rheumatoid arthritis, tendon releases, brain and spinal cord injuries, cerebral palsy (CP), multiple sclerosis, and other traumatic and non-traumatic disorders. Dynamic splinting is often used post-operatively for the treatment of motion loss and stiffness/ in the knee, elbow, wrist, or finger. It is not generally used in other joints such as the hip, ankle, or foot. There are several types of mechanical stretching devices that have been developed to restore range of motion to a joint.

1. Dynamic Splinting Devices – these are spring-loaded low load prolonged stretch devices that apply continuous stretch to the affected joint. The patient may adjust the tension of the spring but otherwise no patient intervention is required. Examples include the Dynasplint®, Ultraflex, LMB Pro-Glide and EMPI Advance.
2. Flexionaters and Extensionaters – these are patient-controlled bi-directional static progressive stretch devices intended to provide alternating stretching and relaxation of the affected joint. Examples include the ERMI Shoulder Flexionater, ERMI Elbow Extensionater, and ERMI Knee/Ankle Flexionater. Also included in this category are the pronator/supinator devices.
3. Joint Active System (JAS) Splints – these devices apply static progressive stretch in which the patient manually increases the angle to which the device applies to the affected joint. Examples include the JAS Shoulder, JAS Elbow, and JAS Knee.

DOCUMENTATION REQUIREMENTS TO SUBSTANTIATE MEDICAL NECESSITY

“Medically necessary” or “medical necessity” shall mean health care services that a Healthcare Provider, exercising prudent clinical judgment, would provide to a patient for the purpose of evaluating, diagnosing, or treating an illness, injury, disease or its symptoms, and that are (a) in accordance with generally accepted standards of medical practice; (b) clinically appropriate in terms of type, frequency, extent, site, and duration; and considered effective for the patient’s illness, injury, or disease; and (c) not primarily for the convenience of the patient or healthcare provider, and not more costly than an alternative service or sequence of services at least as likely to produce equivalent therapeutic or diagnostic results as to the diagnosis or treatment of that patient’s illness, injury, or disease.

More than 8-10 visits for evaluation, treatment, modification, and caregiver education for contracture casting would generally not be considered medically necessary without significant documentation.

PRACTITIONER SCOPE AND TRAINING

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

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

Best practice can be defined as a clinical, scientific, or professional technique, method, or process that is typically evidence-based and consensus driven and is recognized by a majority of professionals in a particular field as more effective at delivering a particular outcome than any other practice (Joint Commission International Accreditation Standards for Hospitals, 2020).

Depending on the practitioner's scope of practice, training, and experience, a patient's condition and/or symptoms during examination or the course of treatment may indicate the need for referral to another practitioner or even emergency care. In such cases it is essential for the practitioner to refer the patient for appropriate co-management (e.g., to their primary care physician) or if immediate emergency care is warranted, to contact 911 as appropriate. See the *Managing Medical Emergencies (CPG 159 – S)* policy for information.

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