

# **Clinical Policy: Durable Medical Equipment and Orthotics and Prosthetics Guidelines**

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Coding Implications Revision Log

#### Description

DME is defined as equipment that can stand repeated use, is primarily and customarily used to serve a medical purpose, and is generally not useful to a person in the absence of an illness or injury.<sup>1</sup> Orthotic devices are rigid and semi-rigid devices used for the purpose of supporting a weak or deformed body part or restricting or eliminating motion in a disease or injured body part.<sup>2</sup> Prosthetic devices are custom-made artificial limbs or other assistive devices that replace a body part or function as a result of traumatic injuries, vascular disease, diabetes, cancer or congenital disorders.

#### **Policy/Criteria**

- I. It is the policy of PA Health & Wellness (PHW)<sup>®</sup> that durable medical equipment, orthotics, and prosthetics are **medically necessary** when the general and applicable equipment-specific criteria in A and B are met:
  - A. General criteria: Both of the following have been provided to the member/enrollee and/or caregiver, as applicable:
    - 1. Education regarding use of the device, with demonstrated understanding;
    - 2. A trial of the requested device, with demonstrated ability to use it safely and effectively.

*Note:* If a medically necessary, lesser cost item exists and will suit the member/enrollee's medical needs, a higher cost item will be denied.

#### EQUIPMENT-SPECIFIC CRITERIA

Ambulatory Assist Products	2
BURN GARMENTS	
CARDIAC EQUIPMENT	
Compression Therapy Equipment	
DIABETES CARE EQUIPMENT	
HEAT, COLD & LIGHT THERAPY EQUIPMENT	
NEWBORN CARE EQUIPMENT	
Other Equipment	
PROSTHETICS AND ORTHOTICS EQUIPMENT	
PUMPS	9
Respiratory Equipment	
SURGICAL SUPPLIES	11
WALKERS	
WHEELCHAIRS	
WOUND CARE	



AMBULATORY	CRITERIA	HCPCS
ASSIST PRODUCTS		
Gait trainers	<ul> <li>Medically necessary with therapist evaluation and ongoing treatment when <i>all</i> of the following criteria are met:</li> <li>A. Moderate to maximum support for walking is required;</li> <li>B. Cleared medically for weight bearing and can physiologically tolerate upright positioning;</li> <li>C. Evaluated with the requested gait trainer, can tolerate the positioning in the device, and has successfully demonstrated proper use;</li> <li>D. The member/enrollee and caregivers have been trained on the gait trainer and are motivated to continue ongoing use.</li> <li>**Codes E8000-E8002 indicate, "includes all accessories and components" as part of the definition of the code. Additional line items under E1399 should not be included with requests for gait trainers.</li> </ul>	E8000 E8001 E8002
Standing Frames	<ul> <li>Dynamic standing frames are medically necessary when meeting one of the following:</li> <li>A. Initial request, or replacement request due to physiological changes* and all of the following: <ol> <li>Age and ambulatory status, one of the following:</li> <li>Age and ambulatory status, one of the following:</li> <li>Age and ambulatory status, one of the following:</li> <li>Age &lt;18 years and nonambulatory or losing the ability to ambulate;</li> <li>Age &lt;18 years and preambulatory, nonambulatory, or losing the ability to ambulate;</li> <li>Developmental delay in ambulation and ≥ 18 months of age;</li> <li>Documented neurological or neuromuscular impairment and ≥ 1 year of age;</li> </ol> </li> <li>Documentation supports all of the following: <ol> <li>Patient meets height and weight requirements for requested standing frame;</li> <li>Alert and responsive to stimuli;</li> <li>No contraindications to supported standing program;</li> <li>Caregiver trained, available, and able to safely assist patient with use of standing frame;</li> </ol> </li> <li>Unable to stand without support due to decreased motor control or abnormal muscle tone;</li> <li>Care managed by a rehabilitation-related specialist or physician;</li> <li>Prescribed for daily use;</li> <li>Expected use for ≥ 12 months;</li> <li>Demonstrated ability (through a direct trial) to mobilize in and/or operate the dynamic component;</li> </ul>	E0642 **E1399



DIMETRICO COL		
AMBULATORY	CRITERIA	HCPCS
ASSIST PRODUCTS		
	8. Documented functional need for or benefit from the dynamic component of the stander (not for use as exercise equipment or for exercise benefit).	
	B. Replacement request (not due to physiological changes), all of the following:	
	<ol> <li>Documentation supports replacement device necessary due to irreparable damage or device exceeds reasonable useful lifetime ≥ 5 years;</li> </ol>	
	2. Physician documentation of proper use and continued benefit;	
	3. Replacement with identical or nearly identical device;	
	*Changes in physiological condition, such as strength, muscle tone, growth, or weight change, may potentially impact the appropriateness of the standing device currently in use.	
	**Line item justification is required for any additional components submitted under the E1399 code.	

<b>BURN GARMENTS</b>	CRITERIA	HCPCS
Burn garments <sup>11</sup>	Medically necessary with associated physical and/or occupational	A6501
	therapy when <i>all</i> of the following criteria are met:	A6502
	A. At risk of a post-burn contracture;	A6503
	B. The garment and physical and/or occupational therapies are being	A6504
	used with the intent of preventing the need for skin grafting or	A6505
	contractures as a result of hypertrophic scarring;	A6506
	C. Garment is requested by the PCP and/or the treating specialist.	A6507
		A6508
		A6509
		A6510
		A6511
		A6512
		A6513

Cardiac Equipment	CRITERIA	HCPCS
Non-wearable external defibrillator with integrated ECG analysis	Considered not medically necessary as it is primarily considered a safety device.	E0617



Compression Therapy Equipment	CRITERIA	HCPCS
Non-pneumatic compression devices <sup>6</sup>	There is insufficient clinical evidence to support the safety and effectiveness of non-pneumatic compression devices over the use of standard pneumatic compression devices.	K1032 K1033

DIABETES CARE EQUIPMENT	CRITERIA	HCPCS
Blood glucose monitor with integrated voice synthesizer <sup>13</sup>	Medically necessary for member/enrollee with diabetes who are legally blind (best corrected visual acuity less than 20/200).	E2100

HEAT, COLD & Light Therapy Equipment	CRITERIA	HCPCS
Ultraviolet panel lights	<ul> <li>Medically necessary for both of the following:</li> <li>A. Refractory psoriasis;</li> <li>B. MD justifies treatment at home versus alternate sites (e.g. outpatient department at hospital). Panel lights should be considered, if several discrete body areas can be treated individually. Cabinet style should be reserved for extensive involvement &gt; 54% of body</li> </ul>	E0691 E0692 E0693 E0694
Cold pad pump	surface area.Considered not medically necessary for post-operative management as research does not indicate improved outcomes in pain or edema management with the use of cold compression therapy over the use of other treatments to include conservative treatment, cold therapy alone, compression therapy alone, etc.	E0236

NEWBORN CARE Equipment	CRITERIA	HCPCS
Breast pumps	<ul> <li>Medically necessary for the following:</li> <li>A. Breast feeding mother if it is a covered benefit in the State</li> <li>B. Less than \$250.00 as a purchase</li> <li>C. If &gt;\$250 approve as rental up to purchase price then convert to purchase</li> <li>D. Limit one per member/enrollee.</li> </ul>	E0604

<b>OTHER EQUIPMENT</b>	CRITERIA	HCPCS
Enclosed Beds <sup>13, 14, 15,</sup>	Requests will be reviewed by a medical director and/or therapy advisor	E0316
16	to determine medical necessity, based on all of the following:	E1399
		E0328 or
	A. Standard bed or standard hospital bed must be unable to meet the	E0329
	positioning needs due to disability;	(when
		combined



DME AND O&I		HCDCS
<b>OTHER EQUIPMENT</b>		
OTHER EQUIPMENT	<ul> <li>CRITERIA</li> <li>B. Less intensive alternatives to improve the member's/enrollee's safety have been tried and ruled out (to include documentation of why they could not meet medical needs). Considerations include, but are not limited to: <ol> <li>Bed rails;</li> <li>Mattress placed on the floor;</li> <li>Removal of all safety hazards;</li> <li>Bed alarms;</li> <li>Video/audio monitors;</li> <li>Child protection devices such as locks on doors, windows, cabinets, furniture anchors, gates at steps and doors;</li> <li>Physician-directed medication to address seizures, behaviors and sleep;</li> <li>Environmental modification to encourage calming behaviors and sleep;</li> <li>Established routines addressing sensory needs and/or behavior modification to assist with improved naptime or night time behaviors and sleep;</li> <li>Cerebral palsy;</li> <li>Developmental delay;</li> <li>Genetic or neurological disorder that would cause vertigo, disorientation, or uncontrolled movement of the body or extremities;</li> <li>Uncontrolled seizure disorder;</li> <li>Severe behavior disorder;</li> <li>Decumentation of home evaluation;</li> <li>Documentation of home evaluation;</li> <li>Documentation of deucation provided to caregivers on proper use of a bed enclosure, noting: they are to be used for medical support, improved safety transitioning in and out of the bed, and improved safety while sleeping;</li> </ol> </li> </ul>	HCPCS with E0316 or E1399)
	deprivation, enclosed beds should be used at night for sleeping and only for short rests or naps during the day.	
Positioning seat	<ul> <li>Requests should have a physician or therapy advisor review to determine medical necessity.</li> <li>Medically necessary with therapist evaluation and ongoing treatment and <i>all</i> of the following criteria are met:</li> <li>A. Commercial device must be unable to meet the positioning needs due to height, weight, or disability;</li> <li>B. Other positioning devices in the home must be reviewed to ensure a duplication of devices is not already in place.</li> </ul>	T5001 E1399





<b>OTHER EQUIPMENT</b>	CRITERIA	HCPCS
Specialized supply or	Requests for not otherwise specified supplies or miscellaneous	E0240
equipment	equipment codes will have a physician or therapy advisor review to	T2028
	determine medical necessity.	T2029
		K0108
		K0739
		E1399
		(For
		wheelchair
		seating
		refer to
		CP.MP.99)
ROMTech®	Not medically necessary, as there is insufficient evidence in published	E1399,
PortableConnect®	peer-reviewed literature to support the use of this technology and	A9900
Device <sup>17</sup>	currently available alternatives.	

PROSTHETICS AND ORTHOTICS EQUIPMENT	CRITERIA	HCPCS
Cervical traction equipment <sup>11</sup>	<ul> <li>Medically necessary when all of the following are met:</li> <li>A. The appropriate use of the selected home cervical traction device has been demonstrated and was tolerated;</li> <li>B. One of the following: <ol> <li>Diagnosis of temporomandibular joint (TMJ) dysfunction and has received treatment for TMJ condition;</li> <li>Distortion of the lower jaw and neck anatomy (e.g. radical neck dissection) such that a chin halter is unable to be utilized;</li> <li>The treating physician orders and/or documents the medical necessity for greater than 20 pounds of cervical traction in the home setting.</li> </ol> </li> </ul>	E0849
Halo procedure equipment & Fracture Frames	Halo and fracture frame placement is generally performed on an emergent or inpatient basis and will be reviewed at the appropriate level of care using nationally recognized decision support tools.	E0947 E0948 L0810 L0820 L0830 L0859
Cervical collar, custom molded	Requests for custom molded cervical collar will be reviewed by a licensed physical or occupational therapist. Documentation accompanying the request must state reason why pre-fabricated collar not adequate.	L0170 L0190 L0200
Spinal orthotics	Requests for spinal orthotics will be reviewed using relevant nationally recognized decision support tool criteria for similar codes.	L0700 L0710 L0999 L1000 L1001 L1005



DME AND O	<b>&amp;P</b> CRITERIA	
PROSTHETICS	CRITERIA	HCPCS
AND		
ORTHOTICS		
EQUIPMENT		
Hip orthotics	Medically necessary when ordered by an orthopedist for treatment	L1640
The orthours	of, or postoperatively for any of the following:	L1680
	Total hip arthroplasty;	L1685
	<ul> <li>Slipped capital femoral epiphysis;</li> </ul>	L1686
	<ul> <li>Supped capital temoral epiphysis,</li> <li>Legg-Calvé-Perthes disease;</li> </ul>	L1690
		21090
	• Hip labral tear;	
	• Hip dysplasia for Charcot-Marie-Tooth disease.	
	Lateral replacements due to growth are considered medically	
	necessary in pediatrics for diagnoses such as hip dysplasia with	
T D 1	Charcot-Marie-Tooth disease.	1.1700
Legg Perthes	Medically necessary when ordered by an orthopedist for use in the	L1700
orthotics	treatment for Legg-Calvé-Perthes disease in children.	L1710
		L1720
		L1730
TT' 1 11		L1755
Hip-knee-ankle-	Requests for orthotics will be reviewed on a case by case basis.	L2050
foot orthotics		L2060
(HKAFO)		L2090
Orthotic	Requests for orthotic components listed will be reviewed using	L2570
components	relevant nationally recognized decision support tool criteria for	L2580
	similar codes.	L2627
		L2628
Foot orthotics,	Medically necessary for arch, heel, or other foot pain when	L3000
custom	indicated by both of the following:	L3001
	1. Presence of at least one of the following conditions:	L3002
	A. Diplegic cerebral palsy;	L3003
	B. Juvenile idiopathic arthritis;	L3010
	C. Pes cavus (high arch);	L3020
	D. Rheumatoid arthritis;	L3030
	E. Plantar fasciitis when symptoms have been present for 3	L3031
	months or more and;	L3070
	F. Posterior tibial tendon dysfunction in adult, as indicated by	L3080
	one or more of the following:	
	1. Stage I disease (tenosynovitis without deformity);	
	2. Stage II disease (flexible and passively correctable	
	deformity);	
	2. Documentation that adjustment of activities, anti-inflammatory	
	medications, prefabricated orthotics, physical therapy intervention	
	and stretching of calf muscles and plantar surface have failed to	
	improve symptoms.	
0.1.1		1 2220
Orthopedic	Requests for custom orthotic components will be reviewed using	L3230
footwear, custom	relevant nationally recognized decision support tool criteria for	
	similar codes.	



DME AND O	<b>XP</b> CRITERIA	
PROSTHETICS	CRITERIA	HCPCS
AND		
ORTHOTICS		
EQUIPMENT		
	In addition to supporting the medical necessity of foot orthotics,	
	information must be provided to indicate why prefabricated devices	
	cannot meet the need/why custom devices are necessary.	
Shoulder, elbow,	Medically necessary when ordered immediately post-operative for	L3904
wrist, hand, finger	orthopedic surgeries such as rotator cuff repair, tendon repair, or	L4000
orthotics	ORIF.	L4010
		L4020
	Replacement due to normal wear and tear is considered medically	L4030
	necessary when the item is a lateral purchase and the orthotic is	L4130
	still needed; Coverage is based on contract guidelines for	L4205
D (1) (1) 1	replacement DME.	I (000 I (010
Prosthetics and	Requests for upper extremity and myoelectric prosthetics will be	L6000, L6010,
additions: Upper	reviewed by a medical director and/or therapy advisor when the	L6020, L6026,
Extremity and	request specific criteria in A. or B. is met:	L6050, L6055,
Myoelectric	A Initial respect master all of the fallowing	L6100, L6110,
	A. Initial request meets all of the following:	L6120, L6130, L6200, L6205,
	1. Medical record documentation supports all of the following:	L6250, L6203,
	a. Functional needs cannot be met with activity	L6310, L6320,
	modification and compensatory techniques; b. Requested prosthesis is anticipated to meet functional	L6350, L6360,
	needs;	L6370, L6380,
	2. Clinical examination findings include all of the following:	L6382, L6384,
	a. Appropriate residual limb length;	L6386, L6388,
	b. Limb volume stable;	L6400, L6450,
	c. Ability to tolerate weight of prosthetic device;	L6500, L6550,
	d. Environmental exposures appropriate for requested	L6570, L6580,
	prosthesis;	L6582, L6584,
	e. Ability to access specialized service and care as	L6586, L6588,
	necessary;	L6590, L6623,
	f. Stable condition of extremity to include skin integrity,	L6624, L6625,
	strength, and ROM sufficient to use requested device;	L6628, L6638,
	g. Cognitive function necessary to master prosthetic use;	L6646, L6647,
	3. Comprehensive prosthetic rehabilitation plan includes all of	L6648, L6689,
	the following:	L6690, L6692,
	a. Successful participation in pre-prosthetic training and	L6693, L6704,
	therapy;	L6707, L6708,
	b. Method of prosthetic control discussed;	L6709, L6711,
	c. Functional task training with occupational or physical	L6712, L6713,
	therapy;	L6714, L6715,
	d. Concurrent home exercise program;	L6721, L6722, L6885, L6895,
	e. Follow-up care schedule planned.	L6900, L6905,
	<ul><li>B. Replacement request, all of the following:</li><li>1. Replacement is requested due to one of the following:</li></ul>	L6910, L6915,
	a. Current prosthesis no longer functions properly or	L6920, L6930,
	physiological or surgical changes to residual limb no	L6940, L6950,
	longer accommodate current prosthesis;	L6960, L6965,
	ionger accommodate current prostitesis,	,,,,



DME AND O		HCDCC
PROSTHETICS AND ORTHOTICS	CRITERIA	HCPCS
EQUIPMENT		
	<ul> <li>b. Irreparable wear to prosthesis or prosthetic components;</li> <li>c. Significant change in member/enrollee condition resulting in poor fit or function of prosthesis or prosthetic components;</li> <li>2. Irreparable damage to prosthesis or prosthetic components or repair cost &gt; 60% of replacement cost;</li> <li>3. Prosthesis has been properly cared for following manufacturer's recommendations;</li> <li>4. Medical documentation includes all of the following: <ul> <li>a. Supports continued use and medical need;</li> <li>b. Continued motivation to use the device for functional benefit;</li> <li>c. Functional level continues to be appropriate for prosthesis and components in use;</li> <li>d. Replacement with same or similar prosthesis and/or components;</li> <li>e. Updated practitioner's order on file or order not required (for loss or irreparable damage).</li> </ul> </li> </ul>	L6970, L6975, L7040, L7170, L7185, L7186, L7405, L7499
Prosthetics and additions: Lower Extremity	Requests for these prosthetics and additions will be reviewed by a licensed physical or occupational therapist.	L5990
Breast Prosthetics	Medically necessary post-masectomy or for treatment of gender dysphoria and documentation supports that prefabricated prosthetics will not suffice.	L8030 L8035
MyoPro <sup>®</sup> Orthosis <sup>33</sup>	Not medically necessary, as there is insufficient evidence in published peer-reviewed literature to support the use of this technology over other technologies and currently available alternatives.	L8701 L8702

PUMPS	CRITERIA	HCPCS
Ambulatory infusion	Medically necessary when used for one of the following indications:	E0780
pump <sup>18</sup>	A. Iron Poisoning: administration of deferoxamine for the treatment	E0781
	of acute iron poisoning and iron overload;	
	B. Chemotherapy for liver cancer: treatment of primary	
	hepatocellular carcinoma or colorectal cancer where this disease	
	is unresectable; OR, where the patient refuses surgical excision of the tumor;	
	C. With opioid drugs when used for intractable pain caused by	
	<ul><li>cancer.</li><li>D. To administer a drug considered reasonable and necessary by either:</li></ul>	
	1. Prolonged infusion of at least 8 hours because of proven	
	improved clinical efficacy (i.e., proven or generally accepted to have significant advantages over intermittent bolus	



PUMPS	CRITERIA	HCPCS
	administration regimens or infusions lasting less than 8 hours)	mores
	or	
	2. Intermittent infusion, each episode of infusion lasting less than	
	8 hours, and both of the following criteria:	
	a. Does not require the return to the physician's office prior	
	to the beginning of each infusion.	
	b. Strictly controlled rate of infusion is necessary because	
	systemic toxicity or adverse effects of the drug are	
	unavoidable without infusing it at a controlled rate as	
	indicated in the Physician's Desk Reference, or the U.S.	
	Pharmacopeia Drug Information	
Gastric suction pump,	Medically necessary for home use for gastric suction due to inability	E2000
home model <sup>19</sup>	to empty gastric secretions through normal gastrointestinal functions.	
Implantable infusion	Medically necessary when meeting both of the following:	E0782
pumps <sup>18</sup>	A. One of the following indications:	E0783
rr -	1. Chemotherapy for liver cancer: primary hepatocellular	E0785
	carcinoma or Duke's Class D colorectal cancer, in which the	E0786
	metastases are limited to the liver and where either the	
	disease is unresectable, or the patient refuses excision of the	
	tumor;	
	2. Anti-spasmodic drugs for severe spasticity: administered	
	intrathecal to treat chronic intractable spasticity in patients	
	unresponsive to less invasive medical therapy including both	
	of the following:	
	1. A 6-week trial of noninvasive methods, such as oral anti-	
	spasmodic drugs, that failed to adequately control the	
	spasticity or produced intolerable side effects;	
	2. Prior to pump implantation, there has been a favorable	
	response to a trial of intrathecal dose of the anti-	
	spasmodic drug;	
	3. Opioid drugs for treatment of chronic intractable pain- see	
	CP.MP.173 Implantable Intrathecal Pain Pumps;	
	4. Other uses when all of the following are met:	
	a. The drug is reasonable and necessary for the treatment of	
	the individual;	
	b. It is medically necessary that the drug be administered by	
	an implanted infusion pump. The infusion pump has been	
	FDA-approved for the drug being administered and the	
	purpose for which it is being administered;	
	B. None of the following contraindications to implantation of an	
	infusion pump:	
	1. Known allergy or hypersensitivity to the drug being used	
	<ul><li>(e.g., oral baclofen, morphine, etc.);</li><li>2. Active infection;</li></ul>	
	<ol> <li>Active infection;</li> <li>Body size insufficient to support the weight and bulk of the</li> </ol>	
	device;	
	4. Presence of another implanted programmable device;	
	5. Heparin or insulin is the drug intended for administration.	



PUMPS	CRITERIA	HCPCS
Parenteral pump for medication administration <sup>20</sup>	Medically necessary for uninterrupted parenteral administration of medication via pump.	K0455

<b>Respiratory</b> <b>Equipment</b>	CRITERIA	HCPCS
Nebulizer, ultrasonic	Not medically necessary, as it provides no clinical advantage over use of a small-volume nebulizer (E0574) and compressor.	E0575
IPPB & supplies	Medically necessary for member/enrollee with respiratory disease when an incentive spirometer is ineffective.	E0500 E0550
Oximeter <sup>16</sup>	<ul> <li>Medically necessary when used as a monitoring and alarm device for any of the following:</li> <li>A. To monitor individuals on a home ventilator or with a tracheostomy</li> <li>B. To determine appropriate home oxygen requirements</li> <li>C. To wean an individual from home oxygen</li> <li>D. To monitor an unstable respiratory condition</li> <li>Not medically necessary when used for any of the following:</li> <li>A. Oximetry when used as a diagnostic procedure</li> <li>B. Monitoring of a stable respiratory condition</li> <li>C. Asthma management</li> <li>D. Other conditions not listed above</li> </ul>	E0445
Oxygen tent	Medically necessary when the ability to breathe is impaired and for whom supplemental oxygen is required.	E0455
Intrapulmonary percussive ventilation devices (Volara <sup>™</sup> , Percussionaire- TRUE-IPV <sup>®</sup> ) <sup>22-24</sup>	Current evidence does not support the effectiveness of intrapulmonary percussive ventilation (IPV).	E1399

SURGICAL SUPPLIES	CRITERIA		HCPCS
Other surgical supplies	These items are used as part of a surgical procedure and will be reviewed according to the relevant surgical procedure or level of care.	L8035, L804 L8042, L804 L8045, L804 L8045, L804 L8499, L860 L8610, L861 L8631, L865	3, L8044, 6, L8047, 0, L8609, 2, L8615,



Criteria	HCPCS
Requests for standard walkers are considered medically necessary	E0130
when meeting all of the following:	E0135
A. Mobility-related activities of daily living (MRADLs) in the home	E0141
cannot be met due to mobility limitation;	E0143
B. Walker is able to be safely used by member/enrollee;	
C. Functional mobility deficit will be sufficiently resolved with the use of a walker.	
Requests for heavy duty walkers (E0148, E0149) are considered	E0148
medically necessary when meeting the above standard walker criteria and the member/enrollee weighs more than 300 pounds.	E0149
Requests for heavy duty, multiple braking system, variable wheel resistance walkers (E0147) are considered medically necessary when meeting the above standard walker criteria and the member/enrollee is unable to use a standard walker due to a severe neurologic disorder or other condition causing the restricted use of one hand	E0147
	<ul> <li>Requests for standard walkers are considered medically necessary when meeting all of the following:</li> <li>A. Mobility-related activities of daily living (MRADLs) in the home cannot be met due to mobility limitation;</li> <li>B. Walker is able to be safely used by member/enrollee;</li> <li>C. Functional mobility deficit will be sufficiently resolved with the use of a walker.</li> <li>Requests for heavy duty walkers (E0148, E0149) are considered medically necessary when meeting the above standard walker criteria and the member/enrollee weighs more than 300 pounds.</li> <li>Requests for heavy duty, multiple braking system, variable wheel resistance walkers (E0147) are considered medically necessary when meeting the above standard walker criteria and the member/enrollee is</li> </ul>

WHEELCHAIRS	CRITERIA	HCPCS
Manual	Initial request is medically necessary when meeting all of the	E1050, E1060,
wheelchair <sup>30</sup>	following:	E1070, E1083,
	A. Mobility-related activities of daily living (MRADLs) in the home	E1084, E1085,
	cannot be met due to mobility limitation, all of the following:	E1086, E1087,
	1. Mobility limitation cannot be met with a cane or walker;	E1088, E1089,
	2. Mobility limitation can be met with a manual wheelchair;	E1090, E1091,
	3. Home provides adequate access and maneuvering space for	E1092, E1093,
	requested manual wheelchair;	E1100, E1110,
	4. Willingness to use a manual wheelchair in the home;	E1130, E1140,
	B. One of the following:	E1150, E1160,
	1. Caregiver is available and willing to assist with wheelchair	E1170, E1171,
	use;	E1172, E1180,
	2. Manual wheelchair can be safely and efficiently propelled by	E1190, E1195,
	user;	E1200, E1221,
	C. Wheelchair use will significantly improve MRADLs.	E1222, E1223,
		E1224, E1240,
	Replacement is medically necessary when meeting all of the	E1250, E1260,
	following:	E1270, E1280,
	A. Documentation supports at least one of the following:	E1285, E1290,
	1. Growth features of current wheelchair have been maximized;	E1295, K0009
	2. Repair or replacement of parts no longer effective;	
	3. Current wheelchair in use $\geq 5$ years;	
	4. Change in functional status of member/enrollee documented;	
	B. Mobility-related activities of daily living (MRADLs) in the home	
	cannot be met due to mobility limitation, all of the following:	
	1. Mobility limitation cannot be met with a cane or walker;	
	2. Mobility limitation can be met with a manual wheelchair;	
	3. Home provides adequate access and maneuvering space for	
	requested manual wheelchair;	
	4. Willingness to use a manual wheelchair in the home;	



		HODOG
WHEELCHAIRS	CRITERIA	HCPCS
	C. One of the following:	
	1. Caregiver is available and willing to assist with wheelchair	
	use;	
	2. Manual wheelchair can be safely and efficiently propelled by	
	user;	
	D. Wheelchair use will significantly improve MRADLs.	<b>T2</b> 200
Power seat	Medically necessary as a component on a power wheelchair when all	E2300
elevator on	of the following are met:	
power	A. A licensed, certified medical professional (i.e. physical or	
wheelchair <sup>31</sup>	occupational therapist) is involved with the assessment,	
	prescription, trials and training of equipment;	
	B. Adequate cognitive function to safely use the seat elevating	
	feature; C. A clear functional need for the feature is indicated;	
	D. Provision of the feature will improve functional independence with	
	an activity, such as but not limited to: facilitating reach for the	
	completion of ADLs or IADLs or improving transfer biomechanics	
	and safety.	
Robotic Arm,	There is insufficient clinical evidence to support safety and improved	E1399
Wheelchair-	health outcomes of the JACO Assistive Robotic Arm (Kinova, Inc.)	11077
mounted	over other technologies.	
(JACO) <sup>32</sup>		
Rollabout chair	Medically necessary when used in lieu of a wheelchair for those who	E1031
	would qualify for a wheelchair (except for the ability to self-propel a	
	manual wheelchair).	
Wheelchair	Requests for wheelchair repairs specifically using codes K0108,	K0108
repair	K0739, or E1399, are medically necessary when reviewed by a	K0739
	physician or therapy advisor and when meeting the following criteria:	E1399
	A. Wheelchair is less than 5 years old (as evident by the age/date of	
	purchase information provided);	
	B. Cost of repairs is less than the cost of replacement;	
	C. Information is provided to support the need for repairs due to	
	normal wear and tear, as opposed to abuse/misuse or	
	overutilization (as based on review of previous repair history, age	
	and overall condition).	
	One month's montal fame atom land manual wheelshe is in social and	
	One month's rental for a standard manual wheelchair is considered	
	medically necessary if a member/enrollee owned wheelchair is being	
	repaired. <sup>30</sup>	

WOUND CARE	CRITERIA	HCPCS
Whirlpool tub	Considered not medically necessary.	E1310

\*\* It is the policy of PA Health & Wellness <sup>®</sup> (PHW) that determinations for services that are considered **not medically necessary** must be considered on a case-by-case basis by a physician or ad hoc committee and must be made in accordance with the Benefit Plan Contract provisions and applicable state and federal requirements. Denials will require medical director review.



#### **Coding Implications**

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-todate sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

#### Background

DME items have the following characteristics:

- The equipment is prescribed by a physician;
- The equipment meets the definition of DME;
- The equipment is necessary and reasonable for the treatment of an illness or injury;
- The equipment is manufactured primarily for use in the home environment, but is not limited to use in the home.

#### Member/Enrollee's Home

For purposes of rental and purchase of DME, a member/enrollee's home may be their own dwelling, an apartment, a relative's home, a home for the aged or some other type of institution. However, an institution may not be considered a member/enrollee's home if the following are met:

- Meets at least the basic requirement in the definition of a hospital, i.e., it is primarily engaged in providing by or under the supervision of physicians, inpatient, diagnostic and therapeutic services for medical diagnosis, treatment, and care of injured, disabled, and sick persons, or rehabilitation services for the rehabilitation of injured, disabled, or sick persons; or
- Meets at least the basic requirement in the definition of a skilled nursing facility, i.e., it is primarily engaged in providing to inpatients skilled nursing care and related services for members/enrollees who require medical or nursing care, or rehabilitation services for the rehabilitation of injured, disabled, or sick persons.

Members/enrollees who have been permanently admitted to an inpatient skilled nursing facility or inpatient hospice and who have changed their home address to that of the SNF or hospice will have the SNF or hospice defined as their home.

#### Products

Products is defined as a listing of the most common items, or group of items, that are or may be perceived as home medical equipment. This listing, while reasonably complete, is not intended to quantify the entire spectrum of products that may be considered DME either now or in the future.

#### Durability

An item is considered durable if it can withstand repeated use, i.e., the type of item that could normally be rented. Medical supplies of an expendable nature, such as incontinence pads, lamb's wool pads, catheters, ace bandages, elastic stockings, surgical facemasks, sheets and bags are not considered "durable" within the meaning of the definition. There are other items that although durable in nature, may fall into other coverage categories such as supplies and orthotics and prosthetics. Orthotics and Prosthetics items include, but are not limited to, braces, artificial limbs and eyes.



#### Medical Equipment

Medical equipment is defined as equipment primarily and customarily used for medical purposes and is not generally useful in the absence of illness or injury. In most instances, no documentation will be needed to support whether a specific item of equipment is medical in nature. However, some cases will require documentation to determine whether the item constitutes medical equipment. This documentation would include the advice of local medical organizations and facilities and specialists in the field of physical medicine and rehabilitation. If the equipment is new on the market, it may be necessary, prior to seeking professional advice, to obtain information from the supplier or manufacturer explaining the design, purpose, effectiveness and method of using the equipment in the home as well as the results of any tests or clinical studies that have been conducted.

Personal computers or mobile technology such as iPads, smart phones, iPods, personal digital assistants, etc., may be considered as medical equipment when used for the purpose of speech generating equipment when other non-medical functions are limited or disabled and that device is used as the primary source of communication for those qualifying for a speech generating device.

Reviews, Revisions, and Approvals	Revision Date	Approval Date
Revised section on Orthotic Care Equipment,	09/18	10/18
Hip/Knee/Ankle/Foot Orthotics (L2050, L2060, L2090) noting		
that when requested, they would be reviewed on a case-by-case		
basis.		
Added E0770, Peroneal Nerve Stimulation as investigational and		
not medically necessary to section on Stimulator Equipment.		
Added A6511 to section on Burn garments. Deleted section for	12/18	
enteral pumps and supplies because other criteria exists. Added		
reference to CP.MP.117, Spinal Cord Stimulation in section on		
Implantable neurostimulator.		
Changed section "Parenteral pumps and supplies" to "Parenteral	12/19	
pumps for medication administration", changed criteria from		
TPN use only to uninterrupted medication administration, per		
code description. In implantable infusion pump, replaced chronic		
non-malignant pain criteria with a reference to PA.CP.MP.173		
intrathecal pain pumps. Other minor rewording for clarity with no		
clinical significance.		
Updated flexion/extension devices according to current InterQual		
availability: removed E1801 and added E1802 & E1812		
Added E1399 miscellaneous component code criteria under Gait	12/19	
Trainers; Added E1399, K0108, and K0739 as miscellaneous		
equipment codes requiring physician or therapy advisor review		
under Specialized Supply or Equipment. Removed E1811,		
E1815, and E1818 for flexion/extension devices, as they are		



Reviews, Revisions, and Approvals	Revision Date	Approval Date
included in PA.CP.MP.144 Mechanical Stretching Devices for		
Joint Stiffness and Contracture.		
Gait trainers: Removed code E1399 and replaced it with a note	04/21	
stating E1399 is not necessary. Under Ambulatory Assist		
Products: Added criteria for standing frames for codes E1399		
and E0642; Under Heat, Cold & Light Therapy Equipment:		
Changed coverage recommendation for Cold Pad Pump to "Not		
medically necessary; Under Orthopedic Care Equipment: Added		
criteria for traction equipment for E0849 that targets		
Temporomandibular Joint Dysfunction; Moved Fracture Frames		
with codes E0947 and E0948 to the section with Halo Procedure		
Equipment as criteria and indications are the same; Changed male		
vacuum erection devices from not medically necessary to		
medically necessary; Added hip labral tears as an indication for a		
Hip Orthotic; Added clarification to prosthetics and additions		
section to avoid inappropriate application; For positioning seat,		
added a requirement for review by therapist or MD; Under Other		
Equipment: Added criteria for E1399, K0108 and K0739 when		
they are used for wheelchair repairs; Added criteria for E2300		
Seat Elevators; Under Stimulator Equipment: Added E0770 when		
the diagnosis is spinal cord injury to the coverage criteria detailed		
under Neuromuscular stimulator.		
Clarified that E0617 is a non-wearable external defibrillator.	04/21	
Stylist changes in several sections moving from bullet points to		
Letters & Numbers. Remove references to InterQual to make the		
policy more timeless. Insert "independent" to indicate the type of		
therapist review required.		
Removed criteria for flexion/extension devices, and associated	04/21	
codes E1802, E1810, and E1812 as they are now in CP.MP.144		
Mechanical Stretch Devices. Removed criteria for E0466, non-		
invasive ventilators, and second non-invasive ventilators, as this		
is now included in CP.MP.184 Non-invasive home ventilators.		
Clarified that back up ventilator is necessary in the case of a		
wheelchair mounted ventilator if the ventilator could not reach		
from the wheelchair to the bed. Restructured second/backup		
ventilator criteria, and removed "may be considered" from the		
remote geographic access indication.		
Code E0780 added to criteria for ambulatory infusion pump.	04/21	
Moved ambulatory and implantable infusion pump criteria into		
pumps section. Updated table of contents.		
Under Wound Care, removed HCPC's code Q4111,	04/21	
GammaGraft, as code is included in CP.MP.185 Skin Substitutes		
for Chronic Wounds. Removed "member" from criteria and		
reworded, without impact on criteria. When not possible to		



Reviews, Revisions, and Approvals	Revision	Approval Date
Keviews, Kevisions, and Approvals	Date	
remove, replaced "member" with "member/enrollee." Replaced	Dute	
"members" with "members/enrollees" in the disclaimer of the		
policy.		
Added note to the description stating that if a lower cost,	04/21	
medically necessary item exists and will meet the member's	07/21	
needs, the lower cost item will be approved. Updated policy to		
remove diaphragmatic nerve stimulation criteria, which was		
transferred to CP.MP.203 Diaphragmatic Phrenic Nerve		
Stimulation. Nebulizer, ultrasonic: changed to not medically		
necessary with supporting statement. Blood glucose monitor with		
integrated voice synthesizer: revised language from diabetics to		
e		
member/enrollee with diabetes. Implantable infusion pumps:		
Added contraindications. Gastric suction pump: added		
requirement of inability to empty gastric secretions through normal		
gastrointestinal functions. Wheelchair criteria added to its own		
table. Criteria for manual added and coding updated. Direction		
added to use nationally recognized criteria for upper extremities		
and myoelectric prosthetics. Split lower extremity prosthetics into		
its own row. Removed codes from Shoulder, elbow, wrist, hand,		
finger orthotics that were duplicated in IQ, L3720, L3730, L3740,		
L3760, L3900, L3901, L3960, L3962 and L3999. Updated table		
of contents. References reviewed and updated.		
Annual Review Complete. Added criteria for enclosed beds to	02/06/2023	
"Other Equipment" section of policy. Added references and codes		
E0316, E1399 and E0328 or E0329 (when combined with E0316		
or E1399) for enclosed beds. Replaced "investigational" with		
"not proven safe and effective" in the following sections:		
Pneumatic compression devices, neuromuscular stimulator, and		
peroneal nerve stimulators. Updated policy to remove		
neuromuscular stimulator, functional neuromuscular stimulator,		
and peroneal nerve stimulator, which was transferred to		
PA.CP.MP.48 Neuromuscular Electrical Stimulation (NMES).		
Replaced existing Standing Frames criteria with new initial		
request and replacement request criteria. Revised section on		
pneumatic compression devices to state that they are not proven		
safe and effective for lymphedema of the abdomen, trunk, chest,		
genitals, or neck, and for arterial insufficiency. Added criteria for		
Wheelchair-mounted Assistive Robotic Arm (JACO). Changed		
"review date" in the header to "date of last revision" and "date"		
in the revision log header to "revision date." Reorganized		
Standing Frame criteria and required that replacement requests		
also meet existing criteria for the initial request. For initial		
request under 18, added "and one of the following:		
Developmental delay in ambulation and $\geq 18$ months of age;		



DME AND O&P CRITERIA			
Reviews, Revisions, and Approvals	Revision Date	Approval Date	
Documented neurological or neuromuscular impairments and $\geq 1$ year of age." Required that documentation supports meeting height and weight requirements, alert and responsive to stimuli, no contraindications to standing program, and caregiver trained, available, and able to safely assist. Removed requirement for "able to tolerate upright position." Added informational note. Removed requirement for replacement requests not due to physiological changes to meet existing criteria and reformatted criteria. Contents table renumbered. References reviewed and updated. Added burn garment HCPCS codes A6502, A6503, A6504, A6505, A6506, A6508, A6509, A6510, A6512 and A6513 to policy. Made note for HCPCS code K0108 to refer to PA.CP.MP.99 for wheelchair seating in Specialized supply or Equipment section. Removed cardiac event monitor (E0616) criteria from cardiac equipment section of policy and moved to PA.CP.MP.243 Implantable Loop Recorders. Removed invasive home ventilator criteria (E0465) and moved to PA.CP.MP.184 Home Ventilators. Added statement that current evidence does not support the effectiveness of intrapulmonary percussive ventilation (E1399). Updated references. Specialist reviewed. Manual Wheel Chair "Mobility limitation in the community" ** It is the policy of PA Health & Wellness <sup>®</sup> (PHW) that determinations for services that are considered <b>not medically necessary</b> must be considered on a case-by-case basis by a physician or ad hoc committee and must be made in accordance with the Benefit Plan Contract provisions and applicable state and federal requirements. Denials will require medical director review.			
Annual review. Updated description with no impact on criteria. Changed Orthopedic Care Equipment to Prosthetics and Orthotics Equipment. Table of contents updated. Retired pneumatic compression device criteria (E0675) for IQ. Updated "Cabinet style" note under Ultraviolet panel lights. Under "Other Equipment" added code E0240 to "Specialized supply or equipment" section and added section, criteria, and coding (E1399, A9900) for "ROMTech device". Reformatted Foot orthotics, custom criteria in "Prosthetics and Orthotics Equipment" section. Added criteria for Prosthetics and additions: Upper Extremity and Myoelectric in "Prosthetics and Orthotics Equipment" section. Added section, criteria, and coding (L8701, L8702) for "MyoPro Orthosis" under "Prosthetics and Orthotics Equipment". Removed code L8035 from "other surgical supplies"	10/2023		



Reviews, Revisions, and Approvals	Revision Date	Approval Date
and added section and criteria for "Breast Prosthetics" (L8030,		
L8035). Removed pediatric wheelchair codes (E1229, E1231,		
E1232, E1233, E1234, E1235, E1236, E1237, E1238, E1037)		
from manual wheelchair section. References reviewed, updated,		
and reformatted. Internal specialist review.		

#### References

- 1. National coverage determination: Durable medical equipment (DME) reference list (280.1). Centers for Medicare and Medicaid Services w, ebsite. <u>https://www.cms.gov/medicare-coverage-database/search.aspx</u>. Published May 16, 2023. Accessed September 27, 2023.
- Local coverage article. Knee orthoses policy article (A52465). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published October 1, 2015 (revised July 20, 2023). Accessed September 29, 2023.
- Local coverage article. Surgical dressings (A54563). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published October 1, 2015 (revised September 7, 2023). Accessed September 19, 2023.
- 4. Rea TD, Eisenberg MS. Automated external defibrillators. UpToDate. <u>http://www.utdol.com</u>. Published September 7, 2021. Accessed September 29, 2023.
- National coverage determination. Pneumatic compression devices (280.6). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published January 14, 2002. Accessed September 24, 2023.
- Evidence analysis research brief: Dayspring (Koya Medical Inc.) for treatment of lymphedema. Hayes. <u>www.hayesinc.com</u>. Published March 27, 2023. Accessed September 20, 2023.
- National coverage determination. Home blood glucose monitors (40.2). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published June 19, 2006. Accessed September 24, 2023.
- National coverage determination. Treatment of psoriasis (250.1). <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published January 1, 1966. Accessed September 29, 2023.
- 9. Elmets CA, Lim HW, Stoff B, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy. J Am Acad Dermatol. 2019; 81(3):775-804.
- Local coverage determination: Heating pads and heat lamps (L33784). Centers for Medicare and Medicaid Services website. <u>https://www.cms.gov/medicare-coverage-</u> <u>database/search.aspx</u>. Published October 1, 2015 (updated January 1, 2020). Accessed September 29, 2023.
- Local coverage determination. Cervical traction devices (L33823). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published October 1, 2015 (revised January 1, 2020). Accessed September 24, 2023.
- DMEPOS quality standards. Centers for Medicare & Medicaid Services website. <u>https://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-</u> <u>MLN/MLNProducts/DMEPOSQuality/DMEPOSQualBooklet-905709.html</u>. Published December 2022. Accessed September 12, 2023.



- 13. Restraint and seclusion Enclosure beds, side rails and mitts. The Joint Commission website. <u>https://www.jointcommission.org/standards/standard-faqs/critical-access-hospital/provision-of-care-treatment-and-services-pc/000001668/</u>. Published April 11, 2016 (updated July 20, 2022). Accessed September 20, 2023.
- Enclosure bed: A protective and calming restraint. American Nurse Association website. <u>https://www.myamericannurse.com/use-enclosure-beds/</u>. Published January 13, 2015. Accessed September 24, 2023.
- 15. State Operations Manual Appendix A Survey Protocol, Regulations and Interpretive Guidelines for Hospitals. Centers for Medicare & Medicaid Services. <u>https://www.cms.gov/Regulations-and-</u> <u>Guidance/Guidance/Manuals/downloads/som107ap\_a\_hospitals.pdf</u>. Published May 21, 2004 (revised July 21, 2023). Accessed September 24, 2023.
- National coverage determination: Hospital beds (280.7). Centers for Medicare and Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published January 1, 1966. Accessed September 24, 2023.
- Evolving evidence review: ROMTech/PortableConnect (ROM Technologies Inc.) for telerehabilitation following total knee arthroplasty. Hayes. <u>https://www.hayesinc.com/</u>. Published March 10, 2022 (annual review May 19, 2023). Accessed September 19, 2023.
- National coverage determination. Infusion pumps (280.14). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published December 17, 2004. Accessed September 12, 2023.
- Local coverage determination. Suction pumps (L33612). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published October 1, 2015 (revised April 1, 2023). Accessed September 24, 2023.
- 20. Local coverage article. External infusion pumps policy article (A52507).
   <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published October 1, 2015 (revised October 1, 2023). Accessed September 29, 2023.
- Local coverage determination. Vacuum erection devices (L34824). Centers for Medicare & Medicaid Services website. <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published October 1, 2015 (revised January 1, 2020). Accessed September 12, 2023.
- 22. Khera M. Treatment of male sexual dysfunction. UpToDate. <u>www.uptodate.com</u>. Published July 17, 2023. Accessed September 12, 2023.
- Local coverage determination: Nebulizers (L33370). Centers or Medicare and Medicaid Services website. <u>https://www.cms.gov/medicare-coverage-database/search.aspx</u>. Published October 15, 2015 (revised January 1, 2023). Accessed September 28, 2023.
- 24. Local coverage determination. Oxygen and oxygen equipment (L33797). <u>http://www.cms.hhs.gov/mcd/search.asp</u>. Published October 1, 2015 (revised April 1, 2023). Accessed September 29, 2023.
- 25. Evidence analysis research brief: Volara (Hillrom) for respiratory therapy. Hayes. <u>www.hayesinc.com</u>. Published August 14, 2023. Accessed September 20, 2023.
- 26. Lauwers E, Ides K, Van Hoorenbeeck K, Verhulst S. The effect of intrapulmonary percussive ventilation in pediatric patients: A systematic review. *Pediatr Pulmonol*. 2018;53(11):1463 to 1474. doi:10.1002/ppul.24135
- 27. Huynh TT, Liesching TN, Cereda M, et al. Efficacy of Oscillation and Lung Expansion in Reducing Postoperative Pulmonary Complication. J Am Coll Surg. 2019;229(5):458 to 466.e1. doi:10.1016/j.jamcollsurg.2019.06.004



- 28. Aboussouan LS. Role of mucoactive agents and secretion clearance techniques in COPD. UpToDate. <u>www.uptodate.com</u>. Updated May 22, 2023. Accessed September 27, 2023.
- 29. Local coverage determination: Walkers (L33791). Centers for Medicare and Medicaid Services website. <u>https://www.cms.gov/medicare-coverage-database/search.aspx</u>. Published October 1, 2015 (revised January 1, 2020). Accessed November 18, 2022.
- Local coverage determination: Manual wheelchair bases (L33788). Centers for Medicare and Medicaid Services website. <u>https://www.cms.gov/medicare-coverage-database/search.aspx</u>. Published October 1, 2015 (revised January 1, 2020). Accessed September 28, 2023.
- 31. Schiappa V, Piriano J, Bernhardt L, et al. RESNA Position on the Application of Seat-Elevation Devices for Power Wheelchair Users Literature Update. Rehabilitation Engineering and Assistive Technology Society of North America. <u>https://www.resna.org/Portals/0/Documents/Position%20Papers/RESNA\_App%20of%20Sea</u> <u>t%20Elevation%20Devices%202019.pdf</u>. Published September 25, 2019. Accessed September 24, 2023.
- 32. Beaudoin M, Lettre J, Routhier F, Archambault PS, Lemay M, Gélinas I. Long-term use of the JACO robotic arm: a case series. *Disabil Rehabil Assist Technol*. 2019;14(3):267 to 275. doi:10.1080/17483107.2018.1428692
- Evolving evidence review: MyoPro Orthosis (Myomo Inc.) for Upper Extremity Paralysis/Paresis After Stroke. Hayes. <u>www.hayesinc.com</u>. Published March 6, 2023. Accessed October 10, 2023.