

United Healthcare[®] Community Plan

UnitedHealthcare® <u>Commercial</u> <u>Medical Policy</u>Community Plan overage Determination Guideline

<u>Upper Extremity Myoelectric Prosthetic Devices, Specialized,</u> <u>Microprocessor or Myoelectric Limbs</u> (for Louisiana Only)

PolicyGuideline Number: CS104LA.L CS360LA.A Effective Date: October 1, 2021 TBD

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Application

This Coverage Determination Guideline Medical Policy only applies to the state of Louisiana.

Coverage Rationale

An upper extremity Mycelectric Prosthetic for amputations above the wrist is proven and medically necessary in certain circumstances. For medical necessity clinical coverage criteria, refer to InterQual® CP: Durable Medical Equipment Prosthetics, Mycelectric, Upper Extremity, Above the Wrist (Custom) - UHG.

Click here to view the InterQual® criteria. Indications for Coverage

Implantable devices/prostheses, such as An upper extremity Myoelectric Prosthetic hand, partial-hand, or artificial digit(s) for amputations below the wrist is medically necessary when the following criteriaheart valves, are met:

- Member has not prosthetics. If covered, these devices would be covered as a traumatic or surgical amputation below the wrist or a congenital missing or dysfunctional hand or finger; and service.
- Prosthetic replaces all or part of a missing limb; and

o Artificial face, eyes, ears, and nose

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Instructions for Use

- Breast prosthesis as required by the Women's Health and Cancer Rights Act of 1998. Benefits include mastectomy bras
- The prosthetic device is ordered by or under the direction of a physician; and
- The prosthetic device is Medically Necessary; and

For limb prosthetics, the coverage determination must be made in light of the member's functional needs or potential functional abilities. Member's potential functional abilities are based on reasonable expectations of the Prosthetist, and treating physician, considering factors including, but not limited to:

The member's past history (including prior prosthetic use if applicable); and
The member's current condition including the status of the residual limb and the nature of other medical problems

Computerized Prosthetic Limbs

For the purposes of this policy, the terms computerized, bionic, microprocessor, or myoelectric prostheses are considered the same.

Computerized Prosthetic limbs are a covered health care service when all of the following criteria are met:

- Each of the criteria in the Prosthetic will help the member regain or maintain function; and Devices section are met; and
- Member is evaluated for his/her individual needs by a healthcare professional with the qualifications and training to make an evaluation under the supervision of the ordering physician; (documentation should accompany the order); and
- Ordering physician signs the final prosthetic proposal; and
- The records must document the patient's current functional capabilities and his/her expected functional rehabilitation potential, including an explanation for the difference, if that is the case. (It is recognized within the functional classification hierarchy that bilateral amputees often cannot be strictly bound by functional level classifications); and
- Prosthetic replaces all or part of a missing limb; and
- Prosthetic will help patient regain or maintain function; and
- Member is willing and able to participate in the training for the use of the prosthetic; (especially important in use of a computerized upper limb); and
- Member is able to operate the stimulator of the physically function at a level necessary for a computerized prosthetic or microprocessor; and, e.g., hand, leg, or foot
- Functional assessment (including activities of daily living (ADLs) and Instrumental ADLs (IADLs)) evaluation and expected rehabilitation potential; and
- Remaining musculature of the arm(s) contains the minimum microvolt threshold to allow operation of a Myoelectric Prosthetic Device (usually 3-5 muscle groups must be activated to use a computerized hand), no external switch; and
- Ordering physician authorizes the final prosthetic proposal

Myoelectric prosthetic components for hand, partial-hand, and artificial digits below the wrist are considered not medically necessary in members who do not meet the criteria above.

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express written con	sent of UHC.
Noto: A suppliar-	produced record over if signed by a physician dees not establish
Medical Necessity	-
	•
Louor Limba (Comp	storized and/or Specialized)
	terized and energialized laws limb prestbases is based on menimum
• coverage of compu	cerized and specialized lower limb proscheses is based on maximum
Levels 1=4)	in rever of the patient (see <u>hower hims kenabilitation classification</u>
Member meets each	criteria for computerized prosthetic limbs; and
Member has or is :	able to gain Lower Limb Rebabilitation Classification Levels 2-4 for
prosthetic ambulat	tion
The	
- Inc	
of the arm(s)	
contains the	
minimum	
microvolt	
threshold to	
allow operation	
of a Myoelectric	
Prosthetic	
Device (usually	
3-5 muscie	
groups must be	
accivated to use	
arm/hand), no	
external switch;	
and	
•The	Description
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of the arm(s)	
contains the	
minimum	
microvolt threshold to	
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of a Mycolectric	
Prosthetic	
Device (usually	
3-5 muscle	
groups must be	
activated to use	
a computerized	
arm/hand), no	
external switch;	
and	
HCPCS Code	
 Ankles 	
● <u>15982</u>	Lower limb rehabilitation classification is 2 or above

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■ 1.5984	• Lower limb rehabilitation classification is 2 or above
• 1,5985	 Lower limb rehabilitation classification is 2 or above
• <u>1,5986</u>	 Lower limb rehabilitation classification is 2 or above
Hins	
• <u>1.5961</u>	• Functional level is 3 or above
Knoos	
Note: Basic lower	extremity prostheses include a single axis, constant friction knee
Other prosthetic	knees are indicated based upon functional classification
	Functional level is 3 or above
<u>● 15930</u>	• Functional level is 4
▲ <u>L5610</u>	 Functional level is 3 or above
▲ <u>L5613</u>	 Functional level is 3 or above
■ 1.5614	 Functional level is 3 or above
• <u>1,5722</u>	 Functional level is 3 or above
• <u>1,5724</u>	 Functional level is 3 or above
• <u>1.5726</u>	Functional level is 3 or above
• <u>15728</u>	Functional level is 3 or above
L 5780	 Functional level is 3 or above
• 15814	Functional level is 3 or above
- Knoos	
Noto: Basic lower	extremity prostheses include a single avis constant friction know
Other prosthetic	knees are indicated based upon functional classification
▲ <u>L5822</u>	 Functional level is 3 or above
■ 1.5824	• Functional level is 3 or above
▲ 1.5826	 Functional level is 3 or above
■ 1.5828	 Functional level is 3 or above
• <u>1,5830</u>	 Functional level is 3 or above
• <u>1.5840</u>	 Functional level is 3 or above
• <u>15848</u>	Functional level is 3 or above
1.5856	Functional level is 3 or above
• 15050 • 15857	Functional level is 3 or above
<u> </u>	Functional level is 3 or above
15859	Meets all of the criteria below:
- 13035	Has a microprocessor (swing and stance phase type (15856))
	controlled (electronic) knee
	 K3 functional level only
	• Weight greater than 110 lbs. and less than 275 lbs.
	 Has a documented comorbidity of the spine and/or sound limb
	affecting hip extension and/or quadriceps function that impairs
	K-3 level function with the use of a microprocessor-controlled
	knee alone
	• Is able to make use of a product that requires daily charging
	• Is able to understand and respond to error alerts and alarms
	indicating problems with the function of the unit
 Microprocessor or 	Specialized Foot or Feet

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	Note: A user odiu	stable beel beight feature (IECOO) will be denied as not meating
-	aritaria for covo	stable neel neight leature (15990) will be denied as not meeting
-	<u>L5972</u>	Functional level is 2 or above
•	<u>L5973</u>	• Functional level is 3 or above
	<u>15976</u>	 Functional level is 3 or above
	<u>15978</u>	• Functional level is 2 or above
•	<u>15979</u>	• Functional level is 3 or above
•	<u>15980</u>	• Functional level is 3 or above
•	<u>15981</u>	Functional level is 3 or above
•	15987	• Functional level is 3 or above
•	Sockets	
•	-Note:	
•	Exception: A test	socket is not indicated for an immediate prosthesis (L5400-L5460).
•	Socket replacemen	ts are indicated if there is adequate documentation of functional
	and/or physiologi	cal need. It is recognized that there are situations where the
	explanation inclu	des but is not limited to:
•	Changes in the re	sidual limb;
•	Functional need c	hanges;
•	Or irreparable da	mage or wear/tear due to excessive member weight or prosthetic
	demands of very a	ctive amputees.
•	<u>L5618</u>	 More than 2 test (diagnostic) sockets for an individual
		prosthesis are not indicated unless there is documentation in
		the medical record which justifies the need
•	<u>L5620</u>	 More than 2 test (diagnostic) sockets for an individual
		prosthesis are not indicated unless there is documentation in
		the medical record which justifies the need
•	Sockets	
•	-Note:	
•	Exception: A test	-socket is not indicated for an immediate prosthesis (L5400-L5460).
•	Socket replacemen	ts are indicated if there is adequate documentation of functional
	and/or physiologi	cal need. It is recognized that there are situations where the
	explanation inclu	des but is not limited to:
•	Changes in the re	sidual limb;
•	Functional need c	hanges;
•	Or irreparable da	mage or wear/tear due to excessive member weight or prosthetic
	demands of very a	ctive amputees.
•	<u>L5622</u>	 More than 2 test (diagnostic) sockets for an individual
		prosthesis are not indicated unless there is documentation in
		the medical record which justifies the need
•	<u>L5624</u>	 More than 2 test (diagnostic) sockets for an individual
		prosthesis are not indicated unless there is documentation in
		the medical record which justifies the need
•	L5626	 More than 2 test (diagnostic) sockets for an individual
		prosthesis are not indicated unless there is documentation in
		the medical record which justifies the need

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● <u>15628</u>	 More than 2 test (diagnostic) sockets for an individual prosthesis are not indicated unless there is documentation in the medical record which justifies the need
• <u>L5654</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
● <u>L5655</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
• <u>L5656</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
• <u>L5658</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
• <u>L5661</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
• <u>15665</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
• <u>L5673</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
• <u>L5679</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
• <u>L5681</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time
● <u>15683</u>	 No more than two of the same socket inserts are allowed per individual prosthesis at the same time

Myoelectric Upper Limbs (Arms, Joints, and Hands)-

- Myoelectric upper limbs (arms, joints, and hands) are eligible for coverage and are Medically Necessary when the following criteria are met:
- Member meets all the criteria for computerized prosthetic limbs above; and
- Member has a congenital missing or dysfunctional arm and/or hand; or
- Member has a traumatic or surgical amputation of the arm (above or below the elbow); and
- A standard passive or body-powered Prosthetic Device cannot be used or is insufficient to meet the functional needs of the individual in performing activities of daily living (ADL's); and
- The medical records must indicate the specific need for the technologic or design features

Definitions

Activities of Daily Living (ADLs): basic tasks people need to do to function and interact such as bathing, grooming, dressing, toilet use, eating, and physical ambulation. (Mlinac and Feng, 2016, Edemekong et al., 2022)

Instrumental Activities of Daily Living (IADLs): a higher cognitive and complex activity related to independent living such as shopping, transportation, meal preparation, housecleaning, managing finances and managing medications. (Mlinac and Feng, 2016, Edemekong et al., 2022)

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Check the definitions within the member benefit plan document that supersede the definitions below.

Lower Limb Rehabilitation Classification Levels: A clinical assessment of patient rehabilitation potential must be based on the following classification levels:

- K-Level 0: Does not have the ability or potential to ambulate or transfer safely with or without assistance and prosthesis does not enhance their quality of life or mobility.
- K-Level 1: Has the ability or potential to use prosthesis for transfers or ambulation on level surfaces at fixed cadence. Typical of the limited and unlimited household ambulator.
- K-Level 2: Has the ability or potential for ambulation with the ability to traverse low level environmental barriers such as curbs, stairs or uneven surfaces. Typical of the limited community ambulator.
- K-Level 3: Has the ability or potential for ambulation with variable cadence. Typical of the community ambulator who has the ability to traverse most environmental barriers and may have vocational, therapeutic, or exercise activity that demands prosthetic utilization beyond simple locomotion.
- K-Level 4: Has the ability or potential for prosthetic ambulation that exceeds basic ambulation skills, exhibiting high impact, stress, or energy levels. Typical of the prosthetic demands of the child, active adult, or athlete.

Medically Necessary: <u>health</u> Health care services that are all of the following as determined by <u>us</u> <u>UnitedHealthcare</u> or our designee:

In accordance with Generally Accepted Standards of Medical Practice.

• Clinically appropriate, in terms of type, frequency, extent, service site and duration, and considered effective for **your** the member's Sickness, Injury, Mental Illness, substance-related and addictive disorders, disease or its symptoms.

• <u>•</u> Not mainly for **your** the member's convenience or that of **your** the member's doctor or other health care provider.

• • Not more costly than an alternative drug, service(s), service site or supply that is at least as likely to produce equivalent therapeutic or diagnostic results as to the diagnosis or treatment of your Sickness, Injury, disease or symptoms. (Certificate of Coverage 2018)

Mycelectric Prosthetic: A prosthetic device operated by battery-powered electric motors that are activated through electrodes by the mycelectric potentials provided by muscles (Medical Dictionary).

Prosthesis: a man-made substitute for a missing body part (American Cancer Society®).

Prosthetist: a healthcare professional who makes and fits artificial limbs (prostheses) for people with disabilities. This includes artificial legs and arms for people who have had amputations due to conditions such as cancer, diabetes, or injury (John Hopkins Medicine).

Generally Accepted Standards of Medical Practice are standards that are based on credible scientific evidence published in peer-reviewed medical literature generally recognized by the relevant medical community, relying primarily on controlled clinical trials, or, if not available, observational studies from more than one institution that suggest a causal relationship between the service or treatment and health outcomes.

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If no credible scientific evidence is available, then standards that are based on Physician specialty society recommendations or professional standards of care may be considered. UnitedHealthcare has the right to consult expert opinion in determining whether health care services are Medically Necessary. The decision to apply Physician specialty society recommendations, the choice of expert and the determination of when to use any such expert opinion, shall be determined by UnitedHealthcare.

UnitedHealthcare develops and maintains clinical policies that describe the Generally Accepted Standards of Medical Practice scientific evidence, prevailing medical standards and clinical guidelines supporting UnitedHealthcare's determinations regarding specific services. These clinical policies (as developed by UnitedHealthcare and revised from time to time), are available to Covered Persons through <u>myuhe.com</u> or the telephone number on the member's ID card. They are also available to Physicians and other health care professionals on UHCprovider.com.

Microprocessor Controlled Ankle Foot Prosthesis: (E.g., Proprio Foot) is able to actively change the ankle angle and to identify sloping gradients and ascent or descent of stairs as the result of microprocessor-control and sensor technology.

Microprocessor Controlled Lower Limb Prostheses: Microprocessor controlled knees offer dynamic control through sensors in the device. Microprocessor controlled knees attempt to simulate normal biological knee function by offering variable resistance control to the swing or stance phases of the gait cycle. The swing-rate adjustments allow the knee to respond to rapid changes in cadence. Microprocessor controlled knee flexion enhances the stumble recovery capability. Prosthetic knees such as the microprocessor controlled knee that focus on better control of flexion abilities without reducing stability have the potential to improve gait pattern, wearer confidence, and safety of ambulation. Available devices include but are not limited to Otto-Bock C-Leg device®, the Ossur RheoKnee® or the Endolite Intelligent Prosthesis®.

Myoelectric Prosthetic: A myoelectric prosthesis uses electromyography signals or potentials from voluntarily contracted muscles within a person's residual limb via the surface of the skin to control the movements of the prosthesis, such as elbow flexion/extension, wrist supination/pronation or hand opening/closing of the fingers. Prosthesis of this type utilizes the residual neuro-muscular system of the human body to control the functions of an electric powered prosthetic hand, wrist or elbow. This is as opposed to a traditional electric switch prosthesis, which requires straps and/or cables actuated by body movements to actuate or operate switches that control the movements of prosthesis or one that is totally mechanical. It has a self-suspending socket with pick up electrodes placed over flexors and extensors for the movement of flexion and extension respectively.

Prosthetic Device: An external device that replaces all or part of a missing body part.

Prosthetist: A person, who measures, designs, fabricates, fits, or services a prosthesis as prescribed by a licensed physician, and who assists in the formulation of the prosthesis prescription for the replacement of external parts of the human body lost due to amputation or congenital deformities or absences. A Prosthetist is a person that has been certified to fit prostheses to residual limbs of the upper and lower extremities.

Upper Limb Prosthetic Categories: Upper limb prostheses are classified into 3 categories depending on the means of generating movement at the joints: passive, body-powered, and electrically powered movement.

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- Body-powered prosthesis utilizes a body harness and cable system to provide functional manipulation of the elbow and hand. Voluntary movement of the shoulder and/or limb stump extends the cable and transmits the force to the terminal device. Prosthetic hand attachments, which may be claw-like devices that allow good grip strength and visual control of objects or latex-gloved devices that provide a more natural appearance at the expense of control, can be opened and closed by the cable system.
- Hybrid system, a combination of body-powered and myoelectric components, may be used for high-level amputations (at or above the elbow). Hybrid systems allow control of two joints at once (i.e., one body-powered and one myoelectric) and are generally lighter and less expensive than a prosthesis composed entirely of myoelectric components.
- **Myoelectric prostheses** use muscle activity from the remaining limb for the control of joint movement. Electromyographic (EMG) signals from the limb stump are detected by surface electrodes, amplified, and then processed by a controller to drive battery-powered motors that move the hand, wrist, or elbow. Although upper arm movement may be slow and limited to one joint at a time, myoelectric control of movement may be considered the most physiologically natural. Myoelectric hand attachments are similar in form to those offered with the body-powered prosthesis, but are battery powered. Patient dissatisfaction with myoelectric prostheses includes the increased lack of proprioception, cost, maintenance (particularly for the glove), and weight.
- Passive prosthesis is the lightest of the three types and is described as the most comfortable. Since the passive prosthesis must be repositioned manually, typically by moving it with the opposite arm, it cannot restore function.

Applicable Codes

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this policy does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by federal, state or contractual requirements and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Coverage Determination Guidelines may apply.

CPT CDT/HCPCS Code	Description	
Additions to	Upper Limb ProstheticsExtremity	
17400	Addition to upper extremity prosthesis, below elbow/wrist disarticulation, ultralight material (titanium, carbon fiber or equal)	
L7401	Addition to upper extremity prosthesis, above elbow disarticulation, ultralight material (titanium, carbon fiber or equal)	
L7402	Addition to upper extremity prosthesis, shoulder disarticulation/interscapular thoracic, ultralight material (titanium, carbon fiber or equal)	
L7403	Addition to upper extremity prosthesis, below elbow/wrist disarticulation, acrylic material	
17404	Addition to upper extremity prosthesis, above elbow disarticulation, acrylic material	

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CPTCDT/HCPCS	Description	
Code	Description	
17405	Addition to upper extremity prosthesis, shoulder	
	disarticulation/interscapular thoracic, acrylic material	
17499	Upper extremity prosthesis, not otherwise specified	
Breast Prosthe	esis	
The codes list	ted under "breast prosthesis" are always covered even when an	
exclusion for	prosthetic devices exists. Coverage is required for these codes	
per the Women	's Health and Cancer Rights Act of 1998.	
A4280	Adhesive skin support attachment for use with external breast	
	prosthesis, each	
18000	Breast prosthesis, mastectomy bra, without integrated breast	
	prosthesis form, any size, any type	
Breast Prosthe	esis	
The codes list	ted under "breast prosthesis" are always covered even when an	
exclusion for	prosthetic devices exists. Coverage is required for these codes	
per the Women	's Health and Cancer Rights Act of 1998.	
18001	Breast prosthesis, mastectomy bra, with integrated breast	
	prosthesis form, unilateral, any size, any type	
18002	Breast prosthesis, mastectomy bra, with integrated breast	
	prosthesis form, bilateral, any size, any type	
18010	Breast prosthesis, mastectomy sleeve	
L8015	External breast prosthesis garment, with mastectomy form, post mastectomy	
18020	Breast prosthesis, mastectomy form	
18030	Breast prosthesis, silicone or equal, without integral adhesive	
18031	Breast prosthesis, silicone or equal, with integral adhesive	
18032	Nipple prosthesis, prefabricated, reusable, any type, each	
18033	Nipple prosthesis, custom fabricated, reusable, any material, any type, each	
18035	Custom breast prosthesis, post mastectomy, molded to patient model	
18039	Breast prosthesis, not otherwise specified	
\$8460	Camisole, postmastectomy	
Ear Prosthesi:	9	
D5914	Auricular prosthesis	
D5927	Auricular prosthesis, replacement	
18045	Auricular prosthesis, provided by a nonphysician	
External Power	r: Upper Limb Prosthetics	
16920	Wrist disarticulation, external power, self-suspended inner socket, removable forearm shell, Otto Bock or equal switch, cables, 2 batteries and 1 charger, switch control of terminal device	

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CPT CDT/HCPCS Code	Description
L6925	Wrist disarticulation, external power, self-suspended inner socket, removable forearm shell, Otto Bock or equal electrodes, cables, 2 batteries and one charger, myoelectronic control of terminal device
16930	Below elbow, external power, self-suspended inner socket, removable forearm shell, Otto Bock or equal switch, cables, 2 batteries and one charger, switch control of terminal device
L6935	Below elbow, external power, self-suspended inner socket, removable forearm shell, Otto Bock or equal electrodes, cables, 2 batteries and one charger, myoelectronic control of terminal device
L6940	Elbow disarticulation, external power, molded inner socket, removable humeral shell, outside locking hinges, forearm, Otto Bock or equal switch, cables, 2 batteries and one charger, switch control of terminal device
L6945	Elbow disarticulation, external power, molded inner socket, removable humeral shell, outside locking hinges, forearm, Otto Bock or equal electrodes, cables, 2 batteries and one charger, myoelectronic control of terminal device
16950	Above elbow, external power, molded inner socket, removable humeral shell, internal locking elbow, forearm, Otto Bock or equal switch, cables, 2 batteries and one charger, switch control of terminal device
16955	Above elbow, external power, molded inner socket, removable humeral shell, internal locking elbow, forearm, Otto Bock or equal electrodes, cables, 2 batteries and one charger, myoelectronic control of terminal device
16960	Shoulder disarticulation, external power, molded inner socket, removable shoulder shell, shoulder bulkhead, humeral section, mechanical elbow, forearm, Otto Bock or equal switch, cables, 2 batteries and one charger, switch control of terminal device
External Powe:	r: Upper Limb Prosthetics
L6965	Shoulder disarticulation, external power, molded inner socket, removable shoulder shell, shoulder bulkhead, humeral section, mechanical elbow, forearm, Otto Bock or equal electrodes, cables, 2 batteries and one charger, myoelectronic control of terminal device
16970	Interscapular-thoracic, external power, molded inner socket, removable shoulder shell, shoulder bulkhead, humeral section, mechanical elbow, forearm, Otto Bock or equal switch, cables, 2 batteries and one charger, switch control of terminal device
16975	Interscapular-thoracic, external power, molded inner socket, removable shoulder shell, shoulder bulkhead, humeral section, mechanical elbow, forearm, Otto Bock or equal electrodes, cables, 2 batteries and one charger, myoelectronic control of terminal device

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CPTCDT/HCPCS	Description
Code	Description
17007	Electric hand, switch or myoelectric controlled, adult
17008	Electric hand, switch or myoelectric, controlled, pediatric
17009	Electric hook, switch or myoelectric controlled, adult
17040	Prehensile actuator, switch controlled
17045	Electric hook, switch or myoelectric controlled, pediatric
17170	Electronic elbow, Hosmer or equal, switch controlled
L7180	Electronic elbow, microprocessor sequential control of elbow and terminal device
17181	Electronic elbow, microprocessor simultaneous control of elbow and terminal device
L7185	Electronic elbow, adolescent, Variety Village or equal, switch controlled
L7186	Electronic elbow, child, Variety Village or equal, switch controlled
L7190	Electronic elbow, adolescent, Variety Village or equal, myoelectronically controlled
L7191	Electronic elbow, child, Variety Village or equal, myoelectronically controlled
17259	Electronic wrist rotator, any type
Eye Prosthesi	9
D5915	Orbital prosthesis
D5916	Ocular prosthesis
D5923	Ocular prosthesis, interim
D5928	Orbital prosthesis, replacement
18042	Orbital prosthesis, provided by nonphysician
L8610	Ocular implant
V2623	Prosthetic eye, plastic, custom
V2624	Polishing/resurfacing of ocular prosthesis
V2625	Enlargement of ocular prosthesis
V2626	Reduction of ocular prosthesis
V2627	Scleral cover shell
V2628	Fabrication and fitting of ocular conformer
V2629	Prosthetic eye, other type
Facial Prosth	esis
D5911	Facial moulage (sectional)
D5912	Facial moulage (complete)
D5919	Facial prosthesis
D5929	Facial prosthesis, replacement
18041	Midfacial prosthesis, provided by a nonphysician

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CPT CDT/HCPCS Code	Description
Facial Prosth	e sis
L8043	Upper facial prosthesis, provided by a nonphysician
L8044	Hemi-facial prosthesis, provided by a nonphysician
18046	Partial facial prosthesis, provided by a nonphysician
<u>1.8048</u>	Upspecified maxillofacial prosthesis, by report, provided by a
	nonphysician
18049	Repair or modification of maxillofacial prosthesis, labor component, 15 minute increments, provided by a nonphysician
Lower Limb Pro	o sthetics
K1022	Addition to lower extremity prosthesis, endoskeletal, knee disarticulation, above knee, hip disarticulation, positional rotation unit, any type
15000	Partial foot, shoe insert with longitudinal arch, toe filler
L5010	Partial foot, molded socket, ankle height, with toe filler
15020	Partial foot, molded socket, tibial tubercle height, with toe filler
15050	Ankle, Symes, molded socket, SACH foot
15060	Ankle, Symes, metal frame, molded leather socket, articulated ankle/foot
L5100	Below knee, molded socket, shin, SACH foot
L5105	Below knee, plastic socket, joints and thigh lacer, SACH foot
L5150	Knee disarticulation (or through knee), molded socket, external knee joints, shin, SACH foot
L5160	Knee disarticulation (or through knee), molded socket, bent knee configuration, external knee joints, shin, SACH foot
15200	Above knee, molded socket, single axis constant friction knee, shin, SACH foot
15210	Above knee, short prosthesis, no knee joint (stubbies), with foot blocks, no ankle joints, each
15220	Above knee, short prosthesis, no knee joint (stubbies), with articulated ankle/foot, dynamically aligned, each
15230	Above knee, for proximal femoral focal deficiency, constant friction knee, shin, SACH foot
15250	Hip disarticulation, Canadian type; molded socket, hip joint, single axis constant friction knee, shin, SACH foot
15270	Hip disarticulation, tilt table type; molded socket, locking hip joint, single axis constant friction knee, shin, SACH foot
15280	Hemipelvectomy, Canadian type; molded socket, hip joint, single axis constant friction knee, shin, SACH foot
L5301	Below knee, molded socket, shin, SACH foot, endoskeletal system
L5312	Knee disarticulation (or through knee), molded socket, single axis knee, pylon, SACH foot, endoskeletal system

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only)

CPT CDT/HCPCS Code	Description
15321	Above knee, molded socket, open end, SACH foot, endoskeletal system, single axis knee
15331	Hip disarticulation, Canadian type, molded socket, endoskeletal system, hip joint, single axis knee, SACH foot
15341	Hemipelvectomy, Canadian type, molded socket, endoskeletal system, hip joint, single axis knee, SACH foot
15400	Immediate postsurgical or early fitting, application of initial rigid dressing, including fitting, alignment, suspension, and one cast change, below knee
15410	Immediate postsurgical or early fitting, application of initial rigid dressing, including fitting, alignment and suspension, below knee, each additional cast change and realignment
Lower Limb Pro	osthetics
15420	Immediate postsurgical or early fitting, application of initial rigid dressing, including fitting, alignment and suspension and one cast change AK or knee disarticulation
L5430	Immediate postsurgical or early fitting, application of initial rigid dressing, including fitting, alignment and suspension, AK or knee disarticulation, each additional cast change and realignment
15450	Immediate postsurgical or early fitting, application of nonweight bearing rigid dressing, below knee
15460	Immediate postsurgical or early fitting, application of nonweight bearing rigid dressing, above knee
15500	Initial, below knee PTB type socket, nonalignable system, pylon, no cover, SACH foot, plaster socket, direct formed
15505	Initial, above knee, knee disarticulation, ischial level socket, nonalignable system, pylon, no cover, SACH foot, plaster socket, direct formed
15510	Preparatory, below knee PTB type socket, nonalignable system, pylon, no cover, SACH foot, plaster socket, molded to model
15520	Preparatory, below knee PTB type socket, nonalignable system, pylon, no cover, SACH foot, thermoplastic or equal, direct formed
15530	Preparatory, below knee PTB type socket, nonalignable system, pylon, no cover, SACH foot, thermoplastic or equal, molded to model
15535	Preparatory, below knee PTB type socket, nonalignable system, no cover, SACH foot, prefabricated, adjustable open end socket
15540	Preparatory, below knee PTB type socket, nonalignable system, pylon, no cover, SACH foot, laminated socket, molded to model
15560	Preparatory, above knee, knee disarticulation, ischial level socket, nonalignable system, pylon, no cover, SACH foot, plaster socket, molded to model

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only)

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CPT CDT/HCPCS Code	Description
15570	Preparatory, above knee knee disarticulation, ischial level socket, nonalignable system, pylon, no cover, SACH foot, thermoplastic or equal, direct formed
15580	Preparatory, above knee, knee disarticulation, ischial level socket, nonalignable system, pylon, no cover, SACH foot, thermoplastic or equal, molded to model
15585	Preparatory, above knee knee disarticulation, ischial level socket, nonalignable system, pylon, no cover, SACH foot, prefabricated adjustable open end socket
15590	Preparatory, above knee, knee disarticulation, ischial level socket, nonalignable system, pylon, no cover, SACH foot, laminated socket, molded to model
15595	Preparatory, hip disarticulation/hemipelvectomy, pylon, no cover, SACH foot, thermoplastic or equal, molded to patient model
15600	Preparatory, hip disarticulation/hemipelvectomy, pylon, no cover, SACH foot, laminated socket, molded to patient model
15610	Addition to lower extremity, endoskeletal system, above knee, hydracadence system
15611	Addition to lower extremity, endoskeletal system, above knee, knee disarticulation, 4-bar linkage, with friction swing phase control
15613	Addition to lower extremity, endoskeletal system, above knee, knee disarticulation, 4-bar linkage, with hydraulic swing phase control
L5614	Addition to lower extremity, exoskeletal system, above knee-knee disarticulation, 4 bar linkage, with pneumatic swing phase control
15616	Addition to lower extremity, endoskeletal system, above knee, universal multiplex system, friction swing phase control
L5617	Addition to lower extremity, quick change self-aligning unit, above knee or below knee, each
L5618	Addition to lower extremity, test socket, Symes
Lower Limb Pre	osthetics
15620	Addition to lower extremity, test socket, below knee
15622	Addition to lower extremity, test socket, knee disarticulation
15624	Addition to lower extremity, test socket, above knee
15626	Addition to lower extremity, test socket, hip disarticulation
15628	Addition to lower extremity, test socket, hemipelvectomy
15629	Addition to lower extremity, below knee, acrylic socket
15630	Addition to lower extremity, Symes type, expandable wall socket
15631	Addition to lower extremity, above knee or knee disarticulation, acrylic socket

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only)

CPTCDT/HCPCS	Description		
Code	Description		
15632	Addition to lower extremity, Symes type, PTB brim design socket		
15634	Addition to lower extremity, Symes type, posterior opening (Canadian) socket		
15636	Addition to lower extremity, Symes type, medial opening socket		
15637	Addition to lower extremity, below knee, total contact		
15638	Addition to lower extremity, below knee, leather socket		
15639	Addition to lower extremity, below knee, wood socket		
15640	Addition to lower extremity, knee disarticulation, leather socket		
15642	Addition to lower extremity, above knee, leather socket		
15643	Addition to lower extremity, hip disarticulation, flexible inner socket, external frame		
15644	Addition to lower extremity, above knee, wood socket		
L5645	Addition to lower extremity, below knee, flexible inner socket, external frame		
15646	Addition to lower extremity, below knee, air, fluid, gel or equal, cushion socket		
15647	Addition to lower extremity, below knee, suction socket		
L5648	Addition to lower extremity, above knee, air, fluid, gel or equal, cushion socket		
L5649	Addition to lower extremity, ischial containment/narrow M-L socket		
15650	Additions to lower extremity, total contact, above knee or knee disarticulation socket		
15651	Addition to lower extremity, above knee, flexible inner socket, external frame		
15652	Addition to lower extremity, suction suspension, above knee or knee disarticulation socket		
15653	Addition to lower extremity, knee disarticulation, expandable wall socket		
15654	Addition to lower extremity, socket insert, Symes, (Kemblo, Pelite, Aliplast, Plastazote or equal)		
15655	Addition to lower extremity, socket insert, below knee (Kemblo, Pelite, Aliplast, Plastazote or equal)		
15656	Addition to lower extremity, socket insert, knee disarticulation (Kemblo, Pelite, Aliplast, Plastazote or equal)		
15658	Addition to lower extremity, socket insert, above knee (Kemblo, Pelite, Aliplast, Plastazote or equal)		
15661	Addition to lower extremity, socket insert, multidurometer-Symes		
15665	Addition to lower extremity, socket insert, multidurometer, below knee		
L5666	Addition to lower extremity, below knee, cuff suspension		

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor of Myoelectric Limbs (for Louisiana Only)

<u>CPTCDT/HCPCS</u> Code	Description
L5668	Addition to lower extremity, below knee, molded distal cushion
15670	Addition to lower extremity, below knee, molded supracondylar suspension (PTS or similar)
15671	Addition to lower extremity, below knee / above knee suspension locking mechanism (shuttle, lanyard, or equal), excludes socket insert
15672	Addition to lower extremity, below knee, removable medial brim suspension
Lower Limb Pro	osthetics
15673	Addition to lower extremity, below knee/above knee, custom fabricated from existing mold or prefabricated, socket insert, silicone gel, elastomeric or equal, for use with locking mechanism
15676	Additions to lower extremity, below knee, knee joints, single axis, pair
15677	Additions to lower extremity, below knee, knee joints, polycentric, pair
15678	Additions to lower extremity, below knee, joint covers, pair
15679	Addition to lower extremity, below knee/above knee, custom fabricated from existing mold or prefabricated, socket insert, silicone gel, elastomeric or equal, not for use with locking mechanism
15680	Addition to lower extremity, below knee, thigh lacer, nonmolded
15681	Addition to lower extremity, below knee/above knee, custom fabricated socket insert for congenital or atypical traumatic amputee, silicone gel, elastomeric or equal, for use with or without locking mechanism, initial only (for other than initial, use code L5673 or L5679)
15682	Addition to lower extremity, below knee, thigh lacer, gluteal/ischial, molded
15683	Addition to lower extremity, below knee/above knee, custom fabricated socket insert for other than congenital or atypical traumatic amputee, silicone gel, elastomeric or equal, for use with or without locking mechanism, initial only (for other than initial, use code L5673 or L5679)
15684	Addition to lower extremity, below knee, fork strap
15685	Addition to lower extremity prosthesis, below knee, suspension/sealing sleeve, with or without valve, any material, each
15686	Addition to lower extremity, below knee, back check (extension control)
15688	Addition to lower extremity, below knee, waist belt, webbing
15690	Addition to lower extremity, below knee, waist belt, padded and lined

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only)

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CPTCDT/HCPCS	Description		
Code	Description		
15692	Addition to lower extremity, above knee, pelvic control belt, light		
L5694	Addition to lower extremity, above knee, pelvic control belt, padded and lined		
15695	Addition to lower extremity, above knee, pelvic control, sleeve suspension, neoprene or equal, each		
15696	Addition to lower extremity, above knee or knee disarticulation, pelvic joint		
15697	Addition to lower extremity, above knee or knee disarticulation, pelvic band		
15698	Addition to lower extremity, above knee or knee disarticulation, Silesian bandage		
15699	All lower extremity prostheses, shoulder harness		
15700	Replacement, socket, below knee, molded to patient model		
15701	Replacement, socket, above knee/knee disarticulation, including attachment plate, molded to patient model		
15702	Replacement, socket, hip disarticulation, including hip joint, molded to patient model		
15703	Ankle, Symes, molded to patient model, socket without solid ankle cushion heel (SACH) foot, replacement only		
15704	Custom shaped protective cover, below knee		
15705	Custom shaped protective cover, above knee		
15706	Custom shaped protective cover, knee disarticulation		
15707	Custom shaped protective cover, hip disarticulation		
15710	Addition, exoskeletal knee-shin system, single axis, manual lock		
15711	Additions exoskeletal knee-shin system, single axis, manual lock, ultra-light material		
15712	Addition, exoskeletal knee-shin system, single axis, friction swing and stance phase control (safety knee)		
15714	Addition, exoskeletal knee-shin system, single axis, variable friction swing phase control		
Lower Limb Pre	osthetics		
15716	Addition, exoskeletal knee-shin system, polycentric, mechanical stance phase lock		
15718	Addition, exoskeletal knee-shin system, polycentric, friction swing and stance phase control		
15722	Addition, exoskeletal knee-shin system, single axis, pneumatic swing, friction stance phase control		
15724	Addition, exoskeletal knee-shin system, single axis, fluid swing phase control		
15726	Addition, exoskeletal knee-shin system, single axis, external joints, fluid swing phase control		

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only)

CPTCDT/HCPCS	Description
code	
15728	Addition, exoskeletal knee-shin system, single axis, fluid swing and stance phase control
15780	Addition, exoskeletal knee-shin system, single axis, pneumatic/hydra pneumatic swing phase control
15785	Addition, exoskeletal system, below knee, ultra-light material (titanium, carbon fiber or equal)
15790	Addition, exoskeletal system, above knee, ultra-light material (titanium, carbon fiber or equal)
15795	Addition, exoskeletal system, hip disarticulation, ultra-light material (titanium, carbon fiber or equal)
15810	Addition, endoskeletal knee-shin system, single axis, manual lock
15811	Addition, endoskeletal knee-shin system, single axis, manual lock, ultra-light material
15812	Addition, endoskeletal knee-shin system, single axis, friction swing and stance phase control (safety knee)
15814	Addition, endoskeletal knee-shin system, polycentric, hydraulic swing phase control, mechanical stance phase lock
15816	Addition, endoskeletal knee-shin system, polycentric, mechanical stance phase lock
15818	Addition, endoskeletal knee-shin system, polycentric, friction swing and stance phase control
15822	Addition, endoskeletal knee-shin system, single axis, pneumatic swing, friction stance phase control
15824	Addition, endoskeletal knee-shin system, single axis, fluid swing phase control
15826	Addition, endoskeletal knee shin system, single axis, hydraulic swing phase control, with miniature high activity frame
15828	Addition, endoskeletal knee-shin system, single axis, fluid swing and stance phase control
15830	Addition, endoskeletal knee-shin system, single axis, pneumatic/swing phase control
15840	Addition, endoskeletal knee-shin system, 4-bar linkage or multiaxial, pneumatic swing phase control
15845	Addition, endoskeletal knee-shin system, stance flexion feature, adjustable
15848	Addition to endoskeletal knee-shin system, fluid stance extension, dampening feature, with or without adjustability
15850	Addition, endoskeletal system, above knee or hip disarticulation, knee extension assist
15855	Addition, endoskeletal system, hip disarticulation, mechanical hip extension assist

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only)

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CPT CDT/HCPCS Code	Description
15856	Addition to lower extremity prosthesis, endoskeletal knee-shin system, microprocessor control feature, swing and stance phase, includes electronic sensor(s), any type
15857	Addition to lower extremity prosthesis, endoskeletal knee-shin system, microprocessor control feature, swing phase only, includes electronic sensor(s), any type
15858	Addition to lower extremity prosthesis, endoskeletal knee shin system, microprocessor control feature, stance phase only, includes electronic sensor(s), any type
15859	Addition to lower extremity prosthesis, endoskeletal knee-shin system, powered and programmable flexion/extension assist control, includes any type motor(s)
L5910	Addition, endoskeletal system, below knee, alignable system
15920	Addition, endoskeletal system, above knee or hip disarticulation, alignable system
15925	Addition, endoskeletal system, above knee, knee disarticulation or hip disarticulation, manual lock
15930	Addition, endoskeletal system, high activity knee control frame
Lower Limb Pro	osthetics
15940	Addition, endoskeletal system, below knee, ultra-light material (titanium, carbon fiber or equal)
15950	Addition, endoskeletal system, above knee, ultra-light material (titanium, carbon fiber or equal)
15960	Addition, endoskeletal system, hip disarticulation, ultra-light material (titanium, carbon fiber or equal)
15961	Addition, endoskeletal system, polycentric hip joint, pneumatic or hydraulic control, rotation control, with or without flexion and/or extension control
15962	Addition, endoskeletal system, below knee, flexible protective outer surface covering system
15964	Addition, endoskeletal system, above knee, flexible protective outer surface covering system
15966	Addition, endoskeletal system, hip disarticulation, flexible protective outer surface covering system
15968	Addition to lower limb prosthesis, multiaxial ankle with swing phase active dorsiflexion feature
15969	Addition, endoskeletal ankle-foot or ankle system, power assist, includes any type motor(s)
15970	All lower extremity prostheses, foot, external keel, SACH foot
15971	All lower extremity prosthesis, solid ankle cushion heel (SACH) foot, replacement only
15972	All lower extremity prostheses, foot, flexible keel

Upper Extremity MyoelectricProsthetic Devices, Specialized, Microprocessor orHMyoelectric Limbs(for Louisiana Only)

CPT CDT/HCPCS Code	Description
15973	Endoskeletal ankle foot system, microprocessor controlled feature, dorsiflexion and/or plantar flexion control, includes power source
L5974	All lower extremity prostheses, foot, single axis ankle/foot
15975	All lower extremity prostheses, combination single axis ankle and flexible keel foot
15976	All lower extremity prostheses, energy storing foot (Seattle Carbon Copy II or equal)
15978	All lower extremity prostheses, foot, multiaxial ankle/foot
15979	All lower extremity prostheses, multiaxial ankle, dynamic response foot, one piece system
15980	All lower extremity prostheses, flex-foot system
15981	All lower extremity prostheses, flex-walk system or equal
15982	All exoskeletal lower extremity prostheses, axial rotation unit
15984	All endoskeletal lower extremity prostheses, axial rotation unit, with or without adjustability
15985	All endoskeletal lower extremity prostheses, dynamic prosthetic pylon
15986	All lower extremity prostheses, multiaxial rotation unit (MCP or equal)
15987	All lower extremity prostheses, shank foot system with vertical loading pylon
15988	Addition to lower limb prostheses, vertical shock reducing pylon feature
15990	Addition to lower extremity prosthesis, user adjustable heel height
15999	Lower extremity prosthesis, not otherwise specified
Miscellaneous	
17700	Casket or seal, for use with prosthetic socket insert, any type, each (Note: L7700 is for either a lower limb, or an upper limb socket)
18510	Voice amplifier
Nose Prosthes:	is and the second se
D5913	Nasal prosthesis
D5922	Nasal septal prosthesis
D5926	Nasal prosthesis, replacement
L8040	Nasal prosthesis, provided by a nonphysician
18047	Nasal septal prosthesis, provided by a nonphysician
Prosthetic So	e ks
17600	Prosthetic donning sleeve, any material, each
L8400	Prosthetic sheath, below knee, each

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CPTCDT/HCPCS Code	Description	
18410	Prosthetic sheath, above knee, each	
L8415	Prosthetic sheath, upper limb, each	
L8417	Prosthetic sheath/sock, including a gel cushion layer, belo knee or above knee, each	⊖₩
18420	Prosthetic sock, multiple ply, below knee, each	
18430	Prosthetic sock, multiple ply, above knee, each	
18435	Prosthetic sock, multiple ply, upper limb, each	
18440	Prosthetic shrinker, below knee, each	
18460	Prosthetic shrinker, above knee, each	
18465	Prosthetic shrinker, upper limb, each	
18470	Prosthetic sock, single ply, fitting, below knee, each	
18480	Prosthetic sock, single ply, fitting, above knee, each	
18485	Prosthetic sock, single ply, fitting, upper limb, each	
L8499	Unlisted procedure for miscellaneous prosthetic services	
19900	Orthotic and prosthetic supply, accessory, and/or service component of another HCPCS L code	
Repair and Re	placement	
17510	Repair of prosthetic device, repair or replace minor parts	
17520	Repair prosthetic device, labor component, per 15 minutes	
Upper Limb Pr	costhetics	
16000	Partial hand, thumb remaining	
L6010	Partial hand, little and/or ring finger remaining	
16020	Partial hand, no finger remaining	
L6026	Transcarpal/metacarpal or partial hand disarticulation pro- external power, self-suspended, inner socket with removable section, electrodes and cables, two batteries, charger, my control of terminal device, excludes terminal device(s)	sthesis, e forearm oelectric
16050	Wrist disarticulation, molded socket, flexible elbow hinges, triceps pad	
16055	Wrist disarticulation, molded socket with expandable interface, flexible elbow hinges, triceps pad	
L6100	Below elbow, molded socket, flexible elbow hinge, triceps pad	
L6110	Below elbow, molded socket (Muenster or Northwestern suspension types)	
L6120	Below elbow, molded double wall split socket, step-up hinges, half cuff	
L6130	Below elbow, molded double wall split socket, stump activated locking hinge, half cuff	
16200	Elbow disarticulation, molded socket, outside locking hinge, forearm	

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only)

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CPTCDT/HCPCS	Description	
Code	Description	
16205	Elbow disarticulation, molded socket with expandable interface, outside locking hinges, forearm	
L6250	Above elbow, molded double wall socket, internal locking elbow, forearm	
16300	Shoulder disarticulation, molded socket, shoulder bulkhead, humeral section, internal locking elbow, forearm	
16310	Shoulder disarticulation, passive restoration (complete prosthesis)	
16320	Shoulder disarticulation, passive restoration (shoulder cap only)	
16350	Interscapular thoracic, molded socket, shoulder bulkhead, section, internal locking elbow, forearm	-humeral
Upper Limb Pr	costhetics	
L6360	Interscapular thoracic, passive restoration (complete prosthesis)	
16370	Interscapular thoracic, passive restoration (shoulder cap only)	
16380	Immediate postsurgical or early fitting, application of initial rigid dressing, including fitting alignment and suspension of components, and one cast change, wrist disarticulation or below elbow	
L6382	Immediate postsurgical or early fitting, application of initial rigid dressing including fitting alignment and suspension of components, and one cast change, elbow disarticulation or above elbow	
L6384	Immediate postsurgical or early fitting, application of initial rigid dressing including fitting alignment and suspension of components, and one cast change, shoulder disarticulation or interscapular thoracic	
16386	Immediate postsurgical or early fitting, each additional cast change and realignment	
L6388	Immediate postsurgical or early fitting, application of rigid dressing only	
16400	Below elbow, molded socket, endoskeletal system, including soft prosthetic tissue shaping	
L6450	Elbow disarticulation, molded socket, endoskeletal system, including soft prosthetic tissue shaping	
16500	Above elbow, molded socket, endoskeletal system, including soft prosthetic tissue shaping	
16550	Shoulder disarticulation, molded socket, endoskeletal system, including soft prosthetic tissue shaping	
16570	Interscapular thoracic, molded socket, endoskeletal system, including soft prosthetic tissue shaping	

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CPT CDT/HCPCS Code	Description
16580	Preparatory, wrist disarticulation or below elbow, single wall plastic socket, friction wrist, flexible elbow hinges, figure of eight harness, humeral cuff, Bowden cable control, USMC or equal pylon, no cover, molded to patient model
16582	Preparatory, wrist disarticulation or below elbow, single wall socket, friction wrist, flexible elbow hinges, figure of eight harness, humeral cuff, Bowden cable control, USMC or equal pylon, no cover, direct formed
L6584	Preparatory, elbow disarticulation or above elbow, single wall plastic socket, friction wrist, locking elbow, figure of eight harness, fair lead cable control, USMC or equal pylon, no cover, molded to patient model
16586	Preparatory, elbow disarticulation or above elbow, single wall socket, friction wrist, locking elbow, figure of eight harness, fair lead cable control, USMC or equal pylon, no cover, direct formed
16588	Preparatory, shoulder disarticulation or interscapular thoracic, single wall plastic socket, shoulder joint, locking elbow, friction wrist, chest strap, fair lead cable control, USMC or equal pylon, no cover, molded to patient model
16590	Preparatory, shoulder disarticulation or interscapular thoracic, single wall socket, shoulder joint, locking elbow, friction wrist, chest strap, fair lead cable control, USMC or equal pylon, no cover, direct formed
16600	Upper extremity additions, polycentric hinge, pair
16605	Upper extremity additions, single pivot hinge, pair
L6610	Upper extremity additions, flexible metal hinge, pair
L6611	Addition to upper extremity prosthesis, external powered, additional switch, any type
L6615	Upper extremity addition, disconnect locking wrist unit
L6616	Upper extremity addition, additional disconnect insert for locking wrist unit, each
16620	Upper extremity addition, flexion/extension wrist unit, with or without friction
<u>*</u> L6621	Upper extremity prosthesis addition, flexion/extension wrist with or without friction, for use with external powered terminal device
16623	Upper extremity addition, spring assisted rotational wrist unit with latch release
16624	Upper extremity addition, flexion/extension and rotation wrist unit
L6625	Upper extremity addition, rotation wrist unit with cable lock

Upper Extremity Myoelectric Prosthetic Devices, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only) UnitedHealthcare Community Plan Coverage Determination Guideline Medical Policy

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<u>CPTCDT/HCPCS</u> Code	Description
16628	Upper extremity addition, quick disconnect hook adapter, Otto Bock or equal
Upper Limb Pro	osthetics
L6629	Upper extremity addition, quick disconnect lamination collar with coupling piece, otto bockOtto Bock or equal
16630	Upper extremity addition, stainless steel, any wrist
L6632	Upper extremity addition, latex suspension sleeve, each
16635	Upper extremity addition, lift assist for elbow
16637	Upper extremity addition, nudge control elbow lock
16638	Upper extremity addition to prosthesis, electric locking feature, only for use with manually powered elbow
16640	Upper extremity additions, shoulder abduction joint, pair
L6641	Upper extremity addition, excursion amplifier, pulley type
L6642	Upper extremity addition, excursion amplifier, lever type
L6645	Upper extremity addition, shoulder flexion-abduction joint, each
L6646	Upper extremity addition, shoulder joint, multipositional locking, flexion, adjustable abduction friction control, for use with body powered or external powered system
16647	Upper extremity addition, shoulder lock mechanism, body powered actuator
16648	Upper extremity addition, shoulder lock mechanism, external powered actuator
16650	Upper extremity addition, shoulder universal joint, each
16655	Upper extremity addition, standard control cable, extra
16660	Upper extremity addition, heavy-duty control cable
16665	Upper extremity addition, Teflon, or equal, cable lining
16670	Upper extremity addition, hook to hand, cable adapter
16672	Upper extremity addition, harness, chest or shoulder, saddle type
16675	Upper extremity addition, harness, (e.g., figure of eight type), single cable design
16676	Upper extremity addition, harness, (e.g., figure of eight type), dual cable design
<u>*</u> L6677	Upper extremity addition, harness, triple control, simultaneous operation of terminal device and elbow
L6680	Upper extremity addition, test socket, wrist disarticulation or below elbow
L6682	Upper extremity addition, test socket, elbow disarticulation or above elbow
16684	Upper extremity addition, test socket, shoulder disarticulation or interscapular thoracic
L6686	Upper extremity addition, suction socket

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CPT CDT/HCPCS Code	Description		
L6687	Upper extremity addition, frame type socket, below elbow or wrist disarticulation		
L6688	Upper extremity addition, frame type socket, above elbow or elbow disarticulation		
L6689	Upper extremity addition, frame type socket, shoulder disarticulation		
16690	Upper extremity addition, frame type socket, interscapular- thoracic		
L6691	Upper extremity addition, removable insert, each		
16692	Upper extremity addition, silicone gel insert or equal, each		
16693	Upper extremity addition, locking elbow, forearm counterbalance		
L6694	Addition to upper extremity prosthesis, below elbow/above elbow, custom fabricated from existing mold or prefabricated, socket insert, silicone gel, elastomeric or equal, for use with locking mechanism		
<u>*</u> L6695	Addition to upper extremity prosthesis, below elbow/above elbow, custom fabricated from existing mold or prefabricated, socket insert, silicone gel, elastomeric or equal, not for use with locking mechanism		
<u>*</u> L6696	Addition to upper extremity prosthesis, below elbow/above elbow, custom fabricated socket insert for congenital or atypical traumatic amputee, silicone gel, elastomeric or equal, for use with or without locking mechanism, initial only (for other than initial, use code <u>16694</u> <u>L6694</u> or 16695 <u>L6695</u>)		
Upper Limb Pro	osthetics		
<u>*</u> L6697	Addition to upper extremity prosthesis, below elbow/above elbow, custom fabricated socket insert for other than congenital or atypical traumatic amputee, silicone gel, elastomeric or equal, for use with or without locking mechanism, initial only (for other than initial, use code <u>16694</u> or <u>16695</u>)		
L6698	Addition to upper extremity prosthesis, below elbow/above elbow, lock mechanism, excludes socket insert		
16703	Terminal device, passive hand/mitt, any material, any size		
16704	Terminal device, sport/recreational/work attachment, any material, any size		
16706	Terminal device, hook, mechanical, voluntary opening, any material, any size, lined or unlined		
16707	Terminal device, hook, mechanical, voluntary closing, any material, any size, lined or unlined		
16708	Terminal device, hand, mechanical, voluntary opening, any material, any size		
16709	Terminal device, hand, mechanical, voluntary closing, any material, any size		
L6711	Terminal device, hook, mechanical, voluntary opening, any material, any size, lined or unlined, pediatric		

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<u>CPTCDT/HCPCS</u> Code	Description	
16712	Terminal device, hook, mechanical, voluntary closing, any material, any size, lined or unlined, pediatric	
16713	Terminal device, hand, mechanical, voluntary opening, any material, any size, pediatric	
L6714	Terminal device, hand, mechanical, voluntary closing, any material, any size, pediatric	
<u>*</u> L6715	Terminal device, multiple articulating digit, includes motor(s), is issue or replacement	nitial
16721	Terminal device, hook or hand, heavy-duty, mechanical, voluntary opening, any material, any size, lined or unlined	
16722	Terminal device, hook or hand, heavy-duty, mechanical, voluntary closing, any material, any size, lined or unlined	
L6805	Addition to terminal device, modifier wrist unit	
L6810	Addition to terminal device, precision pinch device	
<u>*</u> L6880	Electric hand, switch or myoelectric controlled, independently articulating digits, any grasp pattern or combination of grasp patterns, includes motor(s)	
L6881	Automatic grasp feature, addition to upper limb electric prosthetic terminal device	C
L6882	Microprocessor control feature, addition to upper limb prosthetic terminal device	
L6883	Replacement socket, below elbow/wrist disarticulation, molded to p model, for use with or without external power	patient
L6884	Replacement socket, above elbow/elbow disarticulation, molded to p model, for use with or without external power	patient
16885	Replacement socket, shoulder disarticulation/interscapular thoracic, molded to patient model, for use with or without external power	
L6890	Addition to upper extremity prosthesis, glove for terminal device, material, prefabricated, includes fitting and adjustment	any
<u>16925</u>	Wrist disarticulation, external power, self-suspended inner socket, removable forearm shell, otto bock or equal electrodes, cables, two batteries and one charger, myoelectronic control of terminal device	
<u>16935</u>	Below elbow, external power, self-suspended inner socket, removable forearm shell, otto bock or equal electrodes, cables, two batteries and one charger, myoelectronic control of terminal device	
<u>*16945</u>	Elbow disarticulation, external power, molded inner socket, removable humeral shell, outside locking hinges, forearm, otto bock or equal electrodes, cables, two batteries and one charger, myoelectronic control of terminal device	

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<u>CPTCDT/HCPCS</u> Code	Description					
<u>*16955</u>	Above elbow, external power, molded inner socket, removable humeral shell, internal locking elbow, forearm, otto bock or equal electrodes, cables, two batteries and one charger, myoelectronic control of terminal device					
<u>16975</u>	Interscapular-thoracic, external power, molded inner socket, removable shoulder shell, shoulder bulkhead, humeral section, mechanical elbow, forearm, otto bock or equal electrodes, cables, two batteries and one charger, myoelectronic control of terminal device					
<u>17007</u>	Electric hand, switch or myoelectric controlled, adult					
L7008	Electric hand, switch or myoelectric, controlled, pediatric					
L7009	Electric hook, switch or myoelectric controlled, adult					
L7045	Electric hook, switch or myoelectric controlled, pediatric					
<u>17180</u>	Electronic elbow, microprocessor sequential control of elbow and terminal device					
<u>*17181</u>	Electronic elbow, microprocessor simultaneous control of elbow and terminal device					
<u>17190</u>	Electronic elbow, adolescent, variety village or equal, myoelectronically controlled					
<u>17191</u>	Electronic elbow, child, variety village or equal, myoelectronically controlled					
L7259	Electronic wrist rotator, any type					
L7360	Six volt battery, each					
L7364	Twelve volt battery, each					
L7366	Battery charger, twelve volt, each					
L7367	Lithium ion battery, rechargeable, replacement					
L7368	Lithium ion battery charger, replacement only					
<u>17400</u> 16895	Addition to upper extremity prosthesis, below elbow/wrist <u>disarticulation</u> , <u>ultralight</u> glove for terminal device , any material (titanium, carbon fiber or equal), custom fabricated					
17401 16900	Addition to upper extremity prosthesis, above elbow disarticulation ultralight material (titanium, carbon fiber or equal) Hand restorat (casts, shading and measurements included), partial hand, with glow thumb or one finger remaining	<u>,</u> :ion /e,				
<u>17403</u> 16905	Addition to upper extremity prosthesis, below elbow/wrist disarticulation, acrylic material Hand restoration (casts, shading measurements included), partial hand, with glove, multiple fingers remaining	and				
L6910	Hand restoration (casts, shading and measurements included), partial hand, with glove, no fingers remaining					
<u>17404</u> 16915	Addition to upper extremity prosthesis, above elbow disarticulation acrylic material Hand restoration (shading and measurements include replacement glove for above	<u>n,</u> ed),				
<u>18465</u>	Prosthetic shrinker, upper limb, each					

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Codes labeled with an asterisk (*) are not on the Louisiana Medicaid Fee Schedule and therefore may not be covered by the state of Louisiana Medicaid Program.

Description of Services

A prosthesis is an artificial device used to replace all or part a missing body part and is intended to restore normal function. Meier and Melton (2014) identify the most common levels of amputations for the upper limb are the transradial (TR) (below elbow, BE) and the transhumeral (TH) (above elbow, AE). The prosthesis is a tool that helps the singlelimb amputee gain functional independence. Ideally, upper limb unilateral amputees should be able to accomplish things such as wearing the prosthetic during waking hours, perform basic ADLs, and return to work whenever possible.

Upper limb prosthesis can be classified into four categories of prosthesis:

- Passive prosthesis is the lightest of all the prosthesis and often termed as cosmetic. It has no motors and contains limited mechanical features.
- Body-powered prosthesis comes from the patient's movements and utilizes a body harness and strap which connects to a cable system that operates the device. Advantages include lightweight, durable and may be waterproof; disadvantages include a required harness, strength and range of motion capability from user.
- Externally powered prosthesis is powered by batteries contained within the system and controlled by EMG signals, force-sensing resistors, and pull/push switches and most often reserved for high-level amputees. Advantages include little or no harnessing of the device, generate more force and appear more cosmetic; disadvantages include battery life and daily charging, not waterproof, more complex and therefore prone to breakage and repair.
- Hybrid prosthesis combines body-powered components and myoelectric/externally powered components in one device. This type of prosthesis is most commonly used by transhumeral and shoulder disarticulation amputees and reserved for high-level amputees.

(National Academies of Sciences, Engineering, and Medicine; 2017)

Clinical Evidence

Carey et al. (2015) conducted a systematic review to identify evidence statements regarding the differences between myoelectric (MYO) and body-powered (BP) prosthesis in persons with upper limb amputations. A search was conducted using PubMed, CINAHL, RECAL Legacy, Cochrane Database of Systematic Reviews, Cochrane Clinical Trials Registry, EMBASE, PMC-NIH Research Publication Database, Web of Science, and Google Scholar. A total of 31 articles were found which spanned from 1993 to 2013, with most of the publications occurring in 2012. The median subject size was 12 and average age of participants was 43.3 years. Twenty-four articles were experimental or observational along with expert opinions in six publications which were therefore given a low quality of evidence. Device assessments fell into three categories with surveys being the most common in 12 of the 24 relevant articles; other assessments included laboratory and clinical functional assessments and ability to use ADLs. Eleven empirical evidence statements (EES) were created based on the following areas of interest: functionality, control and feedback, cosmesis and psychosocial issues, and rejection. The EES were then divided into the following five categories: activity/sport specific, body-powered,

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control, myoelectric, and rejection rates. The authors found conflicting information in terms of the relative functional performance of BP and MYO prostheses. BP prostheses have advantages in training time, durability, and frequency in adjustments, measurements and feedback. MYO prostheses have been shown to provide a cosmetic advantage, are more accepted for light-intensity work, and may have a positive effect on the patient's phantom limb pain. Study limitations included low number of controlled experiments and high number of observational studies.

Myoelectric Hand, Partial-hand, or Artificial Digits

Widehammar et al. (2022) published the results of a single case study evaluating the effect of multi-grip myoelectric prosthetic hands-on performance of daily activities, pain-related disability and prosthesis use, in comparison with single-grip myoelectric prosthetic hands. Nine adults with upper-limb loss participated in the study and all had previous experience of single-grip myoelectric prostheses and were prescribed a prosthesis with multi-grip functions. Both a single-baseline (for ACMC and SHAP data) and a multiple baseline single-case AB design was used. At 6 months' follow-up self-perceived performance and satisfaction scores had increased, prosthesis wearing time had increased, and pain-related disability had reduced in participants with musculoskeletal pain at baseline. The authors concluded that the multi-grip myoelectric prosthetic hand has favorable effects on performance of, and satisfaction with, individually chosen activities, prostheses use and pain-related disability. A durable single-grip myoelectric prosthetic hand may still be needed for heavier physical activities. With structured training, a standard 2-site electrode control system can be used to operate a multi-grip myoelectric prosthetic hand. However, the authors summarized that there may be a mismatch between the patients' wish for better prosthetic devices and their actual use of the new devices. Current knowledge is inconclusive and further studies are needed to support rehabilitation clinicians in their prescription decisions.

A health technology assessment by Hayes (2021) found a very low-quality body of evidence that suggests the LUKE arm (referred to as the DEKA arm in many studies) appears to be safe and may allow some patients to perform certain ADLs, but not all. Some ADLs were more manageable with the patient's existing prosthesis; however, the limited evidence suggests inconsistent improvement on functional measures when compared to their existing prosthesis. Future studies which include larger sample sizes and long-term follow-up are needed to further compare the safety and efficacy of this device.

Wanamaker et al. (2019) reported the results of a cross-sectional study evaluating upper limb function and kinematics in 10 males with partial-hand amputations fitted with a partial-hand prosthesis. Three-dimensional kinematics were compiled as they performed the Southampton Hand Assessment Procedure (SHAP) with and without a prosthesis. Without a prosthesis, larger joint movements were noted. There was significant improvement for the individuals with a five-digit limb loss using a prosthesis seen in the SHAP scores in comparison with those not using a prosthesis (p<0.05 for 6 of 7 SHAP score categories). The authors concluded the prosthesis reduced functional deficits and decreased joint range of motion in individuals with partial hand loss which may reduce the overuse injury risk.

Validated performance-based outcome measures for upper limb (UL) prosthesis users are sparse and may not adequately address all necessary aspects of functional restoration. Wang et al. (2018) evaluated and compared the following characteristics of performancebased outcome measures for UL function: (1) location of task performance around the body, (2) possible grips employed, (3) bilateral versus unilateral task participation, and (4)

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details of the scoring mechanisms, including subjectivity, assessment of sensation, and assessment of quality of motion (QoM). A literature search was conducted using the EMBASE, Medline, and Cumulative Index to Nursing and Allied Health electronic databases from 1970 to June 2015 to identify relevant clinical studies that used UL performancebased outcome measures as functional endpoints; a final list of 7 articles was found. Inclusion criteria included one or more outcome measures that were developed for amputees or individuals with neurologic/musculoskeletal impairments or disabilities of the UL, were intended to measure the functional restoration/improvements through a series of activities or tasks and were intended for use in the adult population. For each identified outcome measured, specific characteristics were obtained: areas around the body in which tasks are performed; the types of grips that a user could possibly employ; bilateral versus unilateral task participation; and the subjectivity and details of the scoring mechanisms, with a particular focus on the assessment of sensation and quality of motion (QoM) (QoM was defined as any consideration of how a movement was performed). The authors suggested utilization or modification of existing measures designed for other clinical populations as first steps to more aptly measure prosthesis use while more complete assessments for UL prosthesis users are developed.

Resnik et al. (2018) conducted a two-part study on the Gen 3 DEKA arm when compared to conventional prosthesis. Part A consisted of laboratory training and part B addressed home training; 23 participants completed part A and then a subset (15) went on to complete part B. Participants in part A were at least 18 years old and had an upper limb amputation at the transradial, transhumeral, shoulder disarticulation or scapulothoracic level; participants were eligible for part B of the study if they had at least fair functional use of the DEKA Arm. The device includes 3 available configurations: radial configuration (RC) for persons with radial amputation; humeral configuration (HC) for persons with humeral amputation; and shoulder configuration (SC) for persons with shoulder disarticulation, forequarter amputation or very short transhumeral amputation. Unique features of all configuration levels are the powered wrist which allows flexion and extension and six programmable hand grip patterns. Performance based measures included a dexterity measure, the Jebsen-Taylor Hand Function Test (JTHFT), and measures of activity performance [Activities Measure for Upper Limb Amputees (AM-ULA); University of New Brunswick Test of Prosthetic Function for Unilateral Amputees (UNB); Timed Measure of Activity Performance (T-MAP), and Brief Activity Measure for Upper Limb Amputees (BAM-ULA)]. Each of the performance measures assess performance of daily activities but differ significantly in the scoring criteria and item content. For example, the T-MAP assesses the time it takes to perform an activity, while the AM-ULA assesses body compensation during activity performance. A variety of self-reported measures were completed as well. Upon completion of the data analysis for both performance and self-reported measures, the authors found at the end of part A participants using the DEKA arm had less perceived disability and more engagement in everyday tasks, but their activity performance was slower. However following completion of part B, participants perceived disability was lower, prosthesis engagement higher, activity performance was improved, and activity speed was equivalent to using a conventional prosthesis. It was also noted that the authors found no differences between the DEKA Arm and conventional prostheses in evaluation of dexterity, prosthetic skill, spontaneity, community integration or quality of life. Limitations included small sample size and participant experience with previous generations of DEKA.

Earley et al. (2016) developed a training protocol and a classifier that switches between long and short EMG analysis window lengths. A study involving 17 non-amputee and 2 partial-hand amputee subjects participated to determine the effects of including electromyogram (EMG) from different arm and hand locations during static and/or dynamic

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wrist motion. Several real-time classification techniques were evaluated to determine which control scheme yielded the highest performance in virtual real-time tasks using a three-way analysis of variance (ANOVA). The outcome identified significant interaction between analysis window length and the number of grasps available. Including static and dynamic wrist motion and intrinsic hand muscle EMG with extrinsic muscle EMG significantly reduced pattern recognition classification error by 35%. Classification delay or majority voting techniques significantly improved real-time task completion rates (17%), selection (23%), and completion (11%) times, and selection attempts (15%) for non-amputee subjects, and the dual window classifier significantly reduced the time (8%) and average number of attempts required to complete grasp selections (14%) made in various wrist positions. Amputee subjects demonstrated improved task timeout rates, and made fewer grasp selection attempts, with classification delay or majority voting techniques. The authors concluded that the proposed techniques show promise for improving control of partial-hand prostheses and more effectively restoring function to individuals using these devices.

Due to few measures developed for or validated with adults, and limited research to guide, Resnik et al. (2013) found it is a challenge to collect or analyze data outcomes for persons with upper limb amputation. The authors identify a need for new function tests for adult amputees, as well as new measures for use with higher-level amputees, bilateral amputees, and body-powered users. 52 patients with upper limb amputation were evaluated. A set of activities from the Atkins activities of daily living checklist were identified and a simple grading scale was used. Therapists were oriented to the measures and asked each patient some basic instructions with their prosthetic limb and then their sound limb. Videotaping of sessions occurred and then adjustments for scoring were made. Final scoring criteria was comprised of the following: "(1) extent of completion of all activity subtasks; (2) speed of completion; (3) movement quality; (4) skillfulness of prosthetic use and control over voluntary grip functions; and (5) independence." The authors developed and refined a new performance-based activity identified as Activities Measure for Upper Limb Amputees (AM-ULA) and demonstrated that the measure has acceptable reliability, consistency and known group validity.

Egermann et al. (2009) conducted a retrospective study on forty-one children (< six years of age) to evaluate the acceptance of mycelectric prostheses in preschool children. All patients suffered from a unilateral congenital upper limb deficiency or traumatic upper limb amputation; patients with bilateral amputations were excluded. Most of the children in the study received a passive device at the age of approximately one year. For the patient to be fitted with a myoelectric prosthesis, the following inclusion criteria needed to be met: 1) communicates well and follows instructions from strangers, 2) bimanual handling and proactive interest in an artificial limb, and 3) family support for the child in using the myoelectric device. The myoelectric prosthesis was identical for all patients. A socket was manufactured using the "Muenster" technique and a single electrode which controlled the opening of the hand while closing automatically was placed. The "Elektrohand 2000" from Germany was used and powered by a six-volt rechargeable battery. Specialized occupational therapists made the initial introduction of the device to the children; structured training at the hospital occurred over one to two weeks by an interdisciplinary team. Families were asked to complete a specific questionnaire which included items such as information about internal/external occupational training, skin irritations at the stump, and activities of daily life. Successful use of the device was defined by daily wearing it for more than two hours per day. Over an observation period of two years, 76% of the study group was successful with the device. The actual mean time of daily use was 5.8±4.1 hours/day. The authors found children between two and four years of age (n=23) showed a higher average time of daily

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use when compared to the older subgroup of patients in the four to six years of age (n=18); in addition, they also found above elbow amputees wore the device more often than children with below elbow amputations. It was concluded under the right conditions the application of a myoelectric hand prosthesis in a young child can be very successful; family involvement was a major key factor in the child's success. Limitations of the study included the small number of participants, weight of the prosthesis and low battery life span.

Crandall and Tomhave (2002) retrospectively evaluated 34 pediatric patients for long-term follow-up on a variety of prosthetic options given for below-elbow amputees. The patients were provided with a variety of prosthetic options, including a "passive" cosmetic upper extremity device. Most of the patients were fitted with conventional prostheses using a body-powered voluntary closing terminal device (97%) as well as myoelectric prostheses (82%). The average follow-up was 14 years, with many of the patients being followed up throughout their entire childhood. All patients were sent questionnaires, and patient interviews and chart review were completed. Final analysis indicated that 15 patients (44%) selected a simple cosmetic "passive hand" as their prosthesis of choice. In longterm follow-up 14 patients (41%) continued as multiple prosthetic users. Fourteen patients (41%) selected the conventional prosthesis using a voluntary closing terminal device as the prosthesis of choice. Only five patients (15%) selected the myoelectric device as their primary prosthesis. The authors concluded that successful unilateral pediatric amputees choose multiple prostheses based on function and that often the most functional prosthesis selected in the long-term was the simplest one in design. The authors felt strongly that unilateral pediatric amputees be offered a variety of prosthetic options to help with normal ADLs. Limitations included small sample size and focus on pediatric population.

Bergman et al. (1992) compared an adaptive myoelectric prosthetic hand to a conventional myoelectric hand. The comparison involved eight individuals with traumatic unilateral upper limb amputations who were currently using conventional myoelectrical prosthetic hands. These individuals were fitted with a commercially available myoelectric prosthetic hand with an adaptive grip. Comparisons were made regarding width of grip, force of grip, scores in a standardized grip function test and prosthesis preference. The conventional prosthesis showed significantly better results regarding these parameters. The adaptive hand does not appear to be fully developed for practical use in prosthetic rehabilitation. The authors concluded that the particular type of adaptive hand did not appear to increase the functional benefit compared to a conventional myoelectric prosthesis. it could not be verified that an adaptive prosthetic hand would be the best technical solution. If a prosthetic system is to be clinically useful, it must provide good grip function and still be simple and reliable enough to use without the facilities of a development laboratory. In order to achieve this balance, a close contact between technical development and clinical rehabilitation may be one of the most important factors.

Millstein et al. (1986) retrospectively reviewed adult upper limb amputees for use of body and electrically powered prostheses. 314 patients were evaluated; there were 45 wrist disarticulations, 175 below-elbow amputations, 3 elbow disarticulations, 71 aboveelbow amputations, 15 shoulder disarticulations and 5 forequarter amputations. Ages of the participants ranged from 14 to 68 years with the average age being 49 years; there were 302 males and 12 females. Evaluation included the completion of a standard questionnaire which examined the use of various types of prostheses while performing activities of daily living, work and recreation. Questions included the amount of time the prosthesis was actually worn, its use and reliability in addition to any problems the

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amputee may have encountered. 85% of the patients had a cable operated prosthesis with hook(s), 55% a cable operated hand, 10% a cosmetic prosthesis and 25% an electrically powered prosthesis. The authors found that 83% of the amputees had complete or useful acceptance of an electrically powered prosthesis; 68% used the cable operated hook, 20% used the cable operated hand and 48% used the cosmetic prosthesis. The results indicated that the most preferred prosthesis was the electrically powered prosthesis; the cable operated hook came in second followed by the cosmetic and cable operated hand.

Clinical Practice Guidelines

Department of Veterans Affairs(VA)/Department of Defense (DoD)

In a 2014 Clinical Practice Guideline for rehabilitation of individuals with lower limb amputation, the following is recommended:

Pre-Prosthetic Training Recommendation

- The care team should ensure that patients undergo pre-prosthetic training to help determine the most appropriate type of device to achieve functional goals. [Expert Opinion]
- Though it is currently impossible to replace all of the lost functions of any part of the upper limb that has been amputated, it is possible for a patient to potentially restore a significant amount of function when prescribed an appropriate prosthesis. A patient's potential restored function depends on several factors including:
 - Adequate physical condition to wear and operate a prosthesis including
 - Goals/motivations and willingness to move forward with prosthetic training
 - Living conditions/social support
 - Cognitive status and the ability to understand and apply knowledge to the fitting and use of a prosthesis
 - Access to appropriate healthcare (with an experienced prosthetic team)
 - Importance of cosmetic appearance and self-image
 - Functional requirements
 - Vocational requirements
 - o Financial coverage
- A comprehensive assessment should be conducted by the care team to determine the most appropriate types of prostheses to prescribe along with educating the patient and/or caregiver(s) on the various types of available prostheses.

Prosthesis Prescription

Once the appropriate type of prosthesis is identified, the care team should write a prescription for the device, including all necessary components. [Expert Opinion]
 Prescriptions for upper extremity prostheses should be based on a collaborative

- O Prescriptions for upper extremity prostheses should be based on a collaborative decision between the patient and the care team. After the care team has conducted a pre-prosthetic assessment and all appropriate prosthetic options have been discussed with the patient, family and/or caregiver, a prescription for the appropriate upper limb prosthesis and pre-prosthetic training is written by the primary physician of the care team. A comprehensive prescription for an upper extremity prosthesis should include:
 - Design (e.g., preparatory vs. definitive)
 - Control strategy (e.g., passive, externally powered, body powered, task specific)
 - The anatomical side and amputation level of the prosthesis
 - Type of socket interface (e.g., soft insert, elastomer liner, flexible thermoplastic)

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- Type of socket frame (e.g., thermoplastic or laminated)
 - Suspension mechanism (e.g., harness, suction, anatomical)

Terminal device (TD) VA/DoD Evidence-Based Clinical Practice Guideline for the

- Management of Upper Extremity Amputation Rehabilitation Page 64 of 149
- Wrist unit (if applicable)
- Elbow unit (if applicable)
- Shoulder unit (if applicable)

U.S. Food and Drug Administration (FDA)

This section is to be used for informational purposes only. FDA approval alone is not a basis for coverage.

Prostheses are class I devices exempt from U.S. Food and Drug Administration (FDA) review. For additional information, use product codes: GXY, IQZ.

In 2014, the DEKA Arm System was cleared for marketing by FDA through the de novo 513(f)(2) classification process which is a low- to moderate-risk medical device. Refer to the following website for additional information: https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/denovo.cfm?id=DEN120016 https://www.accessdata.fda.gov/cdrh docs/reviews/DEN120016.pdf (Accessed November 22, 2022)

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Policy History/Revision Information

Date	Summary of Changes
TBD	Title Change/Template Update • Relocated and reformatted content previously included in the Coverage Determination Guideline titled Prosthetic Devices, Wigs, Specialized, Microprocessor or Myoelectric Limbs (for Louisiana Only) • Changed policy type classification from "Coverage Determination Guideline" to "Medical Policy" Coverage Rationale
	 <u>Revised language to indicate:</u> <u>An upper extremity Myoelectric Prosthetic for amputations above the</u> wrist is proven and medically necessary in certain circumstances; for medical necessity clinical coverage criteria, refer to the

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InterQual[®] CP: Durable Medical Equipment, Prosthetics, Myoelectric, Upper Extremity, Above the Wrist (Custom) - UHG

- An upper extremity Myoelectric Prosthetic hand, partial-hand, or artificial digit(s) for amputations below the wrist is medically necessary when the following criteria are met:
 - Member has a traumatic or surgical amputation below the wrist or a congenital missing or dysfunctional hand or finger; and
 - Prosthetic replaces all or part of a missing limb; and
 - Prosthetic will help the member regain or maintain function; and
 - Member is evaluated for his/her individual needs by a healthcare professional with the qualifications and training to make an evaluation under the supervision of the ordering physician; and
 - Member is willing and able to participate in the training for the use of the prosthetic; and
 - Member is able to operate the stimulator of the computerized prosthetic or microprocessor; and

 - Remaining musculature of the arm(s) contains the minimum microvolt threshold to allow operation of a Myoelectric Prosthetic Device (usually 3-5 muscle groups must be activated to use a computerized hand), no external switch; and
- Ordering physician authorizes the final prosthetic proposal
 Myoelectric prosthetic components for hand, partial-hand, and artificial digits below the wrist are considered not medically
- necessary in members who do not meet the criteria above

Definitions

- Added definition of:
 - Activities of Daily Living (ADLs)
 - Instrumental Activities of Daily Living (IADLs)
- <u>o Prosthesis</u>
- Removed definition of:
 - O Prosthetic Device
 - O Upper Limb Prosthetic Categories

• Updated definition of:

- O Medically Necessary
- Myoelectric Prosthetic

<u>• Prosthetist</u>

Applicable Codes

• Added HCPCS codes L7360, L7364, L7366, L7367, and L7368

•	Removed HCPCS	: L6000	, L6010	, L6020	, L6050	, L6055	, L6100	, l6110 ,	L6120,
	L6130, L6200,	L6205,	l6250,	L6300 ,	L6310,	l6320,	L6350 ,	L6360 ,	L6370,
	L6380, L6382,	L6384,	l6386,	l6388,	L6400 ,	L6450 ,	L6500 ,	L6550 ,	L6570 ,
	L6580, L6582,	L6584,	l6586,	l6588,	L6590 ,	L6600 ,	L6605 ,	L6610 ,	L6615,
	L6616, L6620,	L6623,	l6624,	l6625,	L6628 ,	L6630 ,	l6635,	l6637,	L6638,
	L6640, L6641,	L6642,	l6645,	L6646,	l6647,	L6648,	L6650 ,	L6655 ,	L6660,
	L6665, L6670,	l6672,	l6675,	l6676,	L6684,	L6689,	L6690 ,	L6691,	L6692 ,
	L6693, L6703,	L6704,	l6706,	l6707,	L6708 ,	l6709,	l6711,	l6712,	L6713,
	L6714, L6721,	l6722,	L6805 ,	L6810,	L6885 ,	l6895,	L6900 ,	L6905 ,	L6910,

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	L6915, L6920, L6930, L6940, L6950, L6960, L6965, L6970, L7040, L7170,
	L7185, L7186, L7402, L7405, L7499, L7510, L7520, L7600, L7700, L8415,
	L8435, L8485, L8499, and L9900
•	Added notation to indicate HCPCS codes L6621, L6677, L6695, L6696,
	L6697, L6715, L6880, L6945, L6955, and L7181 are not on the State of
	Louisiana Fee Schedule and therefore may not be covered by the State
	of Louisiana Medicaid Program
Su	pporting Information
•	Added Description of Services, Clinical Evidence, and FDA sections
•	Updated References section to reflect the most current information
	Archived previous policy version CS104LA L

Instructions for Use

This <u>Medical Policy</u> Coverage Determination Guideline provides assistance in interpreting UnitedHealthcare standard benefit plans. When deciding coverage, the federal, state or contractual requirements for benefit plan coverage must be referenced as the terms of the federal, state or contractual requirements for benefit plan coverage may differ from the standard benefit plan. In the event of a conflict, the federal, state or contractual requirements for benefit plan coverage govern. Before using this <u>policy guideline</u>, please check the federal, state or contractual requirements for benefit plan coverage. UnitedHealthcare reserves the right to modify its Policies and Guidelines as necessary. This <u>Coverage Determination Guideline</u> <u>Medical Policy</u> is provided for informational purposes. It does not constitute medical advice.

UnitedHealthcare may also use tools developed by third parties, such as the InterQual® criteria, to assist us in administering health benefits. The UnitedHealthcare <u>Medical</u> <u>Policies</u> <u>Coverage Determination Cuidelines</u> are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice.

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