

Lower Extremity Prosthetics

Policy Number: ADMINISTRATIVE 299.1
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[➔ Instructions for Use](#)

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Related Policy
<ul style="list-style-type: none"> Upper Extremity Myoelectric Prosthetic Devices

Coverage Rationale

[➔ See Benefit Considerations](#)

A lower extremity prosthetic for amputations is proven and Medically Necessary in certain circumstances. For medical necessity clinical coverage criteria, refer to the InterQual® CP: Durable Medical Equipment Prosthetics, Lower Extremity.

Click [here](#) to view the InterQual® criteria.

An endoskeletal knee-shin system with microprocessor control feature (swing/stance phase) is unproven and not Medically Necessary due to insufficient evidence of efficacy for the following:

- Amputee with functional classification status of K1 or K2, and
- Transfemoral (above knee) amputation (includes knee disarticulation), or
- Hip disarticulation or hemipelvectomy

A combined microprocessor-controlled ankle foot system with power assist is unproven and not Medically Necessary due to insufficient evidence of efficacy for the following:

- Transfemoral (above knee) amputation (includes knee disarticulation)
- Transtibial (below knee) amputation
- Hip disarticulation or hemipelvectomy

Documentation Requirements

Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The documentation requirements outlined below are used to assess whether the member meets the clinical criteria for coverage but do not guarantee coverage of the service requested.

HCPCS Codes	Required Clinical Information
Lower Extremity Prosthetics	
L5010, L5020, L5050, L5060, L5100, L5105, L5150, L5160, L5200, L5210, L5230, L5250, L5270, L5280, L5301, L5321, L5331, L5400, L5420, L5530, L5535, L5540, L5585, L5590, L5616, L5639, L5643, L5649, L5651, L5681, L5683, L5703, L5707, L5724, L5726, L5728, L5780, L5795, L5814, L5818, L5822, L5824, L5826, L5828, L5830, L5840, L5845, L5848, L5856, L5858, L5930, L5960, L5966, L5968, L5973, L5979, L5980, L5981, L5987, L5988	Medical notes documenting the following, when applicable: <ul style="list-style-type: none"> ● Vendor coversheet with the narrative describing the request ● Vendor invoice listing the HCPCS codes, make, model, and description; indicate if the item is right or left ● Other healthcare professional notes (i.e., physical therapist) ● Current prescription ● Physician office notes including documentation of: <ul style="list-style-type: none"> ○ History related to the prosthetic request ○ Examination findings to include strength, range of motion (ROM), condition of the contralateral limb, residual limb length and shape, and skin integrity of residual limb ○ Co-morbidities ○ Specify absent limb, including the date, level, and etiology of amputation ○ Current functional classification level; include specific examples and expected rehabilitation potential ○ Describe limitations to activities of daily living (ADLs); include assistive devices to facilitate ambulation within and outside the home ○ Surfaces normally traversed include distance and environment ○ Prosthetist notes to include medical justification for each of the requested prosthetic components ● Specify if the request is for initial prosthetic, preparatory prosthetic, definitive prosthetic, replacement of the entire prosthetic leg, replacement of the prosthetic components/accessories, or request for additional components and accessories ● For replacement prosthesis, also include: <ul style="list-style-type: none"> ○ The age of the current prosthesis and reason for replacement ○ The components on the current prosthesis, including socket, knee, foot, ankle, sock ply, and liner thickness ○ Describe changes in limb including, but not limited to, comparative residual limb measurements ● For socket replacement also describe what adjustments have been tried and failed

*For code descriptions, refer to the [Applicable Codes](#) section.

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)

CMS Modifiers/Medicare Functional Classification Level (MFCL): A clinical assessments of member rehabilitation potential must be based on the following classification levels:

- **Modifier K0 (MFCL-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.
- **Modifier K1 (MFCL-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.
- **Modifier K2 (MFCL-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.
- **Modifier K3 (MFCL-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.

- **Modifier K4 (MFLC-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. (CMS Health Care Procedures Coding System (HCPCS)/Theevan et al. (2011))

Medically Necessary: Health care services that are all of the following as determined by us 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 Sickness, Injury, Mental Illness, substance-related and addictive disorders, disease or its symptoms.
- Not mainly for your convenience or that of your 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)

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®.

Modifier: A two-position code that is added to the end of a code to clarify the services being billed (CMS Health Care Procedures Coding System (HCPCS)). K0 through K4 are HCPCS level II Modifiers.

Myoelectric Prosthetic: A prosthetic device operated by battery-powered electric motors that are activated through electrodes by the myoelectric 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)

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 the member specific benefit plan document 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 may apply.

CPT Code	Description
Lower Extremity Prosthetics	
K1014	Addition, endoskeletal knee-shin system, 4 bar linkage or multiaxial, fluid swing and stance phase control
L5000	Partial foot, shoe insert with longitudinal arch, toe filler
L5010	Partial foot, molded socket, ankle height, with toe filler
L5020	Partial foot, molded socket, tibial tubercle height, with toe filler
L5050	Ankle, symes, molded socket, each foot

CPT Code	Description
Lower Extremity Prosthetics	
L5060	Ankle, symes, metal frame, molded leather socket, articulated ankle/foot
L5100	Below knee, molded socket, shin, each foot
L5105	Below knee, plastic socket, joints and thigh lacer, each foot
L5150	Knee disarticulation (or through knee), molded socket, external knee joints, shin, each foot
L5160	Knee disarticulation (or through knee), molded socket, bent knee configuration, external knee joints, shin, each foot
L5200	Above knee, molded socket, single axis constant friction knee, shin, each foot
L5210	Above knee, short prosthesis, no knee joint ('stubbies'), with foot blocks, no ankle joints, each
L5220	Above knee, short prosthesis, no knee joint ('stubbies'), with articulated ankle/foot, dynamically aligned, each
L5230	Above knee, for proximal femoral focal deficiency, constant friction knee, shin, each foot
L5250	Hip disarticulation, canadian type; molded socket, hip joint, single axis constant friction knee, shin, each foot
L5270	Hip disarticulation, tilt table type; molded socket, locking hip joint, single axis constant friction knee, shin, each foot
L5280	Hemipelvectomy, canadian type; molded socket, hip joint, single axis constant friction knee, shin, each foot
L5301	Below knee, molded socket, shin, each foot, endoskeletal system
L5312	Knee disarticulation (or through knee), molded socket, single axis knee, pylon, each foot, endoskeletal system
L5321	Above knee, molded socket, open end, each foot, endoskeletal system, single axis knee
L5331	Hip disarticulation, canadian type, molded socket, endoskeletal system, hip joint, single axis knee, each foot
L5341	Hemipelvectomy, canadian type, molded socket, endoskeletal system, hip joint, single axis knee, each foot
L5400	Immediate post surgical or early fitting, application of initial rigid dressing, including fitting, alignment, suspension, and one cast change, below knee
L5410	Immediate post surgical or early fitting, application of initial rigid dressing, including fitting, alignment and suspension, below knee, each additional cast change and realignment
L5420	Immediate post surgical or early fitting, application of initial rigid dressing, including fitting, alignment and suspension and one cast change 'ak' or knee disarticulation
L5430	Immediate post surgical or early fitting, application of initial rigid dressing, incl. fitting, alignment and suspension, 'ak' or knee disarticulation, each additional cast change and realignment
L5450	Immediate post surgical or early fitting, application of non-weight bearing rigid dressing, below knee
L5460	Immediate post surgical or early fitting, application of non-weight bearing rigid dressing, above knee
L5500	Initial, below knee 'ptb' type socket, non-alignable system, pylon, no cover, each foot, plaster socket, direct formed
L5505	Initial, above knee - knee disarticulation, ischial level socket, non-alignable system, pylon, no cover, each foot, plaster socket, direct formed
L5510	Preparatory, below knee 'ptb' type socket, non-alignable system, pylon, no cover, each foot, plaster socket, molded to model
L5520	Preparatory, below knee 'ptb' type socket, non-alignable system, pylon, no cover, each foot, thermoplastic or equal, direct formed
L5530	Preparatory, below knee 'ptb' type socket, non-alignable system, pylon, no cover, each foot, thermoplastic or equal, molded to model

CPT Code	Description
Lower Extremity Prosthetics	
L5535	Preparatory, below knee 'ptb' type socket, non-alignable system, no cover, sach foot, prefabricated, adjustable open end socket
L5540	Preparatory, below knee 'ptb' type socket, non-alignable system, pylon, no cover, sach foot, laminated socket, molded to model
L5560	Preparatory, above knee- knee disarticulation, ischial level socket, non-alignable system, pylon, no cover, sach foot, plaster socket, molded to model
L5570	Preparatory, above knee - knee disarticulation, ischial level socket, non-alignable system, pylon, no cover, sach foot, thermoplastic or equal, direct formed
L5580	Preparatory, above knee - knee disarticulation ischial level socket, non-alignable system, pylon, no cover, sach foot, thermoplastic or equal, molded to model
L5585	Preparatory, above knee - knee disarticulation, ischial level socket, non-alignable system, pylon, no cover, sach foot, prefabricated adjustable open end socket
L5590	Preparatory, above knee - knee disarticulation ischial level socket, non-alignable system, pylon no cover, sach foot, laminated socket, molded to model
L5595	Preparatory, hip disarticulation-hemipelvectomy, pylon, no cover, sach foot, thermoplastic or equal, molded to patient model
L5600	Preparatory, hip disarticulation-hemipelvectomy, pylon, no cover, sach foot, laminated socket, molded to patient model
L5610	Addition to lower extremity, endoskeletal system, above knee, hydracadence system
L5611	Addition to lower extremity, endoskeletal system, above knee - knee disarticulation, 4 bar linkage, with friction swing phase control
L5613	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
L5616	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
L5620	Addition to lower extremity, test socket, below knee
L5622	Addition to lower extremity, test socket, knee disarticulation
L5624	Addition to lower extremity, test socket, above knee
L5626	Addition to lower extremity, test socket, hip disarticulation
L5628	Addition to lower extremity, test socket, hemipelvectomy
L5629	Addition to lower extremity, below knee, acrylic socket
L5630	Addition to lower extremity, symes type, expandable wall socket
L5631	Addition to lower extremity, above knee or knee disarticulation, acrylic socket
L5632	Addition to lower extremity, symes type, 'ptb' brim design socket
L5634	Addition to lower extremity, symes type, posterior opening (canadian) socket
L5636	Addition to lower extremity, symes type, medial opening socket
L5637	Addition to lower extremity, below knee, total contact
L5638	Addition to lower extremity, below knee, leather socket
L5639	Addition to lower extremity, below knee, wood socket
L5640	Addition to lower extremity, knee disarticulation, leather socket

CPT Code	Description
Lower Extremity Prosthetics	
L5642	Addition to lower extremity, above knee, leather socket
L5643	Addition to lower extremity, hip disarticulation, flexible inner socket, external frame
L5644	Addition to lower extremity, above knee, wood socket
L5645	Addition to lower extremity, below knee, flexible inner socket, external frame
L5646	Addition to lower extremity, below knee, air, fluid, gel or equal, cushion socket
L5647	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
L5650	Additions to lower extremity, total contact, above knee or knee disarticulation socket
L5651	Addition to lower extremity, above knee, flexible inner socket, external frame
L5652	Addition to lower extremity, suction suspension, above knee or knee disarticulation socket
L5653	Addition to lower extremity, knee disarticulation, expandable wall socket
L5654	Addition to lower extremity, socket insert, symes, (kemblo, pelite, aliplast, plastazote or equal)
L5655	Addition to lower extremity, socket insert, below knee (kemblo, pelite, aliplast, plastazote or equal)
L5656	Addition to lower extremity, socket insert, knee disarticulation (kemblo, pelite, aliplast, plastazote or equal)
L5658	Addition to lower extremity, socket insert, above knee (kemblo, pelite, aliplast, plastazote or equal)
L5661	Addition to lower extremity, socket insert, multi-durometer symes
L5665	Addition to lower extremity, socket insert, multi-durometer, below knee
L5666	Addition to lower extremity, below knee, cuff suspension
L5668	Addition to lower extremity, below knee, molded distal cushion
L5670	Addition to lower extremity, below knee, molded supracondylar suspension ('pts' or similar)
L5671	Addition to lower extremity, below knee / above knee suspension locking mechanism (shuttle, lanyard or equal), excludes socket insert
L5672	Addition to lower extremity, below knee, removable medial brim suspension
L5673	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
L5676	Additions to lower extremity, below knee, knee joints, single axis, pair
L5677	Additions to lower extremity, below knee, knee joints, polycentric, pair
L5678	Additions to lower extremity, below knee, joint covers, pair
L5679	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
L5680	Addition to lower extremity, below knee, thigh lacer, nonmolded
L5681	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 I5673 or I5679)
L5682	Addition to lower extremity, below knee, thigh lacer, gluteal/ischial, molded
L5683	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 I5673 or I5679)
L5684	Addition to lower extremity, below knee, fork strap
L5685	Addition to lower extremity prosthesis, below knee, suspension/sealing sleeve, with or without valve, any material, each

CPT Code	Description
Lower Extremity Prosthetics	
L5686	Addition to lower extremity, below knee, back check (extension control)
L5688	Addition to lower extremity, below knee, waist belt, webbing
L5690	Addition to lower extremity, below knee, waist belt, padded and lined
L5692	Addition to lower extremity, above knee, pelvic control belt, light
L5694	Addition to lower extremity, above knee, pelvic control belt, padded and lined
L5695	Addition to lower extremity, above knee, pelvic control, sleeve suspension, neoprene or equal, each
L5696	Addition to lower extremity, above knee or knee disarticulation, pelvic joint
L5697	Addition to lower extremity, above knee or knee disarticulation, pelvic band
L5698	Addition to lower extremity, above knee or knee disarticulation, silesian bandage
L5699	All lower extremity prostheses, shoulder harness
L5700	Replacement, socket, below knee, molded to patient model
L5701	Replacement, socket, above knee/knee disarticulation, including attachment plate, molded to patient model
L5702	Replacement, socket, hip disarticulation, including hip joint, molded to patient model
L5703	Ankle, symes, molded to patient model, socket without solid ankle cushion heel (sach) foot, replacement only
L5704	Custom shaped protective cover, below knee
L5705	Custom shaped protective cover, above knee
L5706	Custom shaped protective cover, knee disarticulation
L5707	Custom shaped protective cover, hip disarticulation
L5710	Addition, exoskeletal knee-shin system, single axis, manual lock
L5711	Additions exoskeletal knee-shin system, single axis, manual lock, ultra-light material
L5712	Addition, exoskeletal knee-shin system, single axis, friction swing and stance phase control (safety knee)
L5714	Addition, exoskeletal knee-shin system, single axis, variable friction swing phase control
L5716	Addition, exoskeletal knee-shin system, polycentric, mechanical stance phase lock
L5718	Addition, exoskeletal knee-shin system, polycentric, friction swing and stance phase control
L5722	Addition, exoskeletal knee-shin system, single axis, pneumatic swing, friction stance phase control
L5724	Addition, exoskeletal knee-shin system, single axis, fluid swing phase control
L5726	Addition, exoskeletal knee-shin system, single axis, external joints fluid swing phase control
L5728	Addition, exoskeletal knee-shin system, single axis, fluid swing and stance phase control
L5780	Addition, exoskeletal knee-shin system, single axis, pneumatic/hydra pneumatic swing phase control
L5781	Addition to lower limb prosthesis, vacuum pump, residual limb volume management and moisture evacuation system
L5782	Addition to lower limb prosthesis, vacuum pump, residual limb volume management and moisture evacuation system, heavy duty
L5785	Addition, exoskeletal system, below knee, ultra-light material (titanium, carbon fiber or equal)
L5790	Addition, exoskeletal system, above knee, ultra-light material (titanium, carbon fiber or equal)
L5795	Addition, exoskeletal system, hip disarticulation, ultra-light material (titanium, carbon fiber or equal)
L5810	Addition, endoskeletal knee-shin system, single axis, manual lock
L5811	Addition, endoskeletal knee-shin system, single axis, manual lock, ultra-light material
L5812	Addition, endoskeletal knee-shin system, single axis, friction swing and stance phase control (safety knee)

CPT Code	Description
Lower Extremity Prosthetics	
L5814	Addition, endoskeletal knee-shin system, polycentric, hydraulic swing phase control, mechanical stance phase lock
L5816	Addition, endoskeletal knee-shin system, polycentric, mechanical stance phase lock
L5818	Addition, endoskeletal knee-shin system, polycentric, friction swing, and stance phase control
L5822	Addition, endoskeletal knee-shin system, single axis, pneumatic swing, friction stance phase control
L5824	Addition, endoskeletal knee-shin system, single axis, fluid swing phase control
L5826	Addition, endoskeletal knee-shin system, single axis, hydraulic swing phase control, with miniature high activity frame
L5828	Addition, endoskeletal knee-shin system, single axis, fluid swing and stance phase control
L5830	Addition, endoskeletal knee-shin system, single axis, pneumatic/ swing phase control
L5840	Addition, endoskeletal knee/shin system, 4-bar linkage or multiaxial, pneumatic swing phase control
L5845	Addition, endoskeletal, knee-shin system, stance flexion feature, adjustable
L5848	Addition to endoskeletal knee-shin system, fluid stance extension, dampening feature, with or without adjustability
L5850	Addition, endoskeletal system, above knee or hip disarticulation, knee extension assist
L5855	Addition, endoskeletal system, hip disarticulation, mechanical hip extension assist
L5856	Addition to lower extremity prosthesis, endoskeletal knee-shin system, microprocessor control feature, swing and stance phase, includes electronic sensor(s), any type
L5857	Addition to lower extremity prosthesis, endoskeletal knee-shin system, microprocessor control feature, swing phase only, includes electronic sensor(s), any type
L5858	Addition to lower extremity prosthesis, endoskeletal knee shin system, microprocessor control feature, stance phase only, includes electronic sensor(s), any type
L5859	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
L5920	Addition, endoskeletal system, above knee or hip disarticulation, alignable system
L5925	Addition, endoskeletal system, above knee, knee disarticulation or hip disarticulation, manual lock
L5930	Addition, endoskeletal system, high activity knee control frame
L5940	Addition, endoskeletal system, below knee, ultra-light material (titanium, carbon fiber or equal)
L5950	Addition, endoskeletal system, above knee, ultra-light material (titanium, carbon fiber or equal)
L5960	Addition, endoskeletal system, hip disarticulation, ultra-light material (titanium, carbon fiber or equal)
L5961	Addition, endoskeletal system, polycentric hip joint, pneumatic or hydraulic control, rotation control, with or without flexion and/or extension control
L5962	Addition, endoskeletal system, below knee, flexible protective outer surface covering system
L5964	Addition, endoskeletal system, above knee, flexible protective outer surface covering system
L5966	Addition, endoskeletal system, hip disarticulation, flexible protective outer surface covering system
L5968	Addition to lower limb prosthesis, multiaxial ankle with swing phase active dorsiflexion feature
L5969	Addition, endoskeletal ankle-foot or ankle system, power assist, includes any type motor(s)
L5970	All lower extremity prostheses, foot, external keel, sach foot
L5971	All lower extremity prosthesis, solid ankle cushion heel (sach) foot, replacement only
L5972	All lower extremity prostheses, foot, flexible keel
L5973	Endoskeletal ankle foot system, microprocessor controlled feature, dorsiflexion and/or plantar flexion control, includes power source

CPT Code	Description
Lower Extremity Prosthetics	
L5974	All lower extremity prostheses, foot, single axis ankle/foot
L5975	All lower extremity prosthesis, combination single axis ankle and flexible keel foot
L5976	All lower extremity prostheses, energy storing foot (seattle carbon copy ii or equal)
L5978	All lower extremity prostheses, foot, multiaxial ankle/foot
L5979	All lower extremity prosthesis, multi-axial ankle, dynamic response foot, one piece system
L5980	All lower extremity prostheses, flex foot system
L5981	All lower extremity prostheses, flex-walk system or equal
L5982	All exoskeletal lower extremity prostheses, axial rotation unit
L5984	All endoskeletal lower extremity prosthesis, axial rotation unit, with or without adjustability
L5985	All endoskeletal lower extremity prostheses, dynamic prosthetic pylon
L5986	All lower extremity prostheses, multi-axial rotation unit ('mcp' or equal)
L5987	All lower extremity prosthesis, shank foot system with vertical loading pylon
L5988	Addition to lower limb prosthesis, vertical shock reducing pylon feature
L5990	Addition to lower extremity prosthesis, user adjustable heel height
L5999	Lower extremity prosthesis, not otherwise specified
L7367	Lithium ion battery, rechargeable, replacement
L7368	Lithium ion battery charger, replacement only
L7600	Prosthetic donning sleeve, any material, each
L7700	Gasket or seal, for use with prosthetic socket insert, any type, each
L8400	Prosthetic sheath, below knee, each
L8410	Prosthetic sheath, above knee, each
L8417	Prosthetic sheath/sock, including a gel cushion layer, below knee or above knee, each
L8420	Prosthetic sock, multiple ply, below knee, each
L8430	Prosthetic sock, multiple ply, above knee, each
L8440	Prosthetic shrinker, below knee, each
L8460	Prosthetic shrinker, above knee, each
L8470	Prosthetic sock, single ply, fitting, below knee, each
L8480	Prosthetic sock, single ply, fitting, above knee, each

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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 lower limb are the transtibial (TT) (below knee, BK) and the transfemoral (TF) (above knee, AK). The prosthesis is a tool that helps the single-limb amputee gain functional independence. Ideally, lower limb amputees should be able to accomplish things such as ambulation with prosthesis on level and uneven surfaces, stairs, ramps, and curbs, independent with dressing and return to work with or without modifications.

Benefit Considerations

Prosthetic Devices

An initial or replacement prosthetic device is a covered health care service when all of the following criteria are met:

- The prosthetic device replaces a limb or a body part, limited to:
 - Artificial arms, legs, feet, and hands.

- The prosthetic device is [Medically Necessary](#), as defined in the member's specific benefit plan document; and
- The prosthetic device is not subject to a coverage exclusion in the member's specific benefit plan document.

Benefits are provided only for external prosthetic devices and do not include any device that is fully implanted into the body. Internal prosthetics are a Covered Health Care Service for which Benefits are available under the applicable medical/surgical Covered Health Care Service categories in the *Certificate*.

If more than one prosthetic device can meet the member's functional needs, benefits are available only for the prosthetic device that meets the minimum specifications for the member's needs. If the member purchases a prosthetic device that exceeds these minimum specifications, payment will only be the amount that would have paid for the prosthetic that meets the minimum specifications, and the member will be responsible for paying any difference in cost.

Exclusions and Limitations

- Devices used as safety items or to help performance in sports-related activities.
- Repair or replacement of prosthetic devices due to misuse, malicious damage or gross neglect or to replace lost or stolen items.

Clinical Evidence

In a 2022 ECRI clinical assessment, the evidence is inconclusive for the OPRA (Osseointegrated Prostheses for the Rehabilitation of Amputees) Implant System. The OPRA is a bone anchored percutaneous limb prosthesis intended for skeletally mature patients with transfemoral amputations due to trauma or cancer. Evidence from two systematic reviews, two before and after studies and two case series is limited and of low quality. The studies report that while OPRA restores mobility and improves the patient's quality of life (QOL), serious complications, such as infection and implant loosening, have been frequently reported and thus the risk-benefit balance remains unclear.

Microprocessor Controlled Knee Prostheses

Although there is ample clinical literature to support the efficacy of microprocessor knees with community ambulators (Medicare functional classification level [MFCL] K3), there is insufficient evidence to support suitability of microprocessor knees for patients with lower functional classification levels.

Jayaraman et al. (2021) conducted a 13-month longitudinal crossover randomized clinical trial that included 10 individuals with unilateral transfemoral amputation due to vascular conditions designated as Medicare functional classification level (MFCL) K2 to evaluate gait performance and safety with a microprocessor-controlled knee (MPK). Participants were randomized to one of two groups, either an intervention with a MPK with a standardized 1M10 foot or with then non-microprocessor-controlled knee (NMPK) with a standardized 1M10 foot. Inclusion criteria were dysvascular or diabetic unilateral transfemoral amputation; at least 6 months or more post-prosthetic fitting; currently using an NMPK appropriate foot; and household or limited ambulator post-amputation (MFCL K1 or K2 level). Exclusion criteria were individuals with amputation secondary to trauma, cancer, or congenital causes; skin ulcers or lesions on the residual limb that may prevent fitting the prosthesis or from physical activity; and visual impairments or cognitive deficits that may impair ability to give informed consent or follow simple instructions during the study. Clinical outcomes and self-reported outcomes were collected at the end of 6-month interventions. Some limitations of this study include small sample size, the mean age of study participants is 63 ±9 years (which is relatively young when compared to the typical age range (70–75 years) of transfemoral amputation due to vascular complications in the United States), consideration of comorbidities, and the use of assistance devices in the home. The authors concluded that individuals with transfemoral amputation from dysvascular conditions at a MFCL K2 designation benefited from using an MPK with appropriate foot in gait speed, balance, self-reported mobility and fall safety.

A systematic review and meta-analysis were conducted by Hahn et al. (2021) to update a previous 2014 analysis of benefits in safety, performance-based, and patient-reported outcomes the use of microprocess-controlled prosthetic knees (MPKs) in limited community ambulators. The investigators searched Medline, Cochrane Library, CINAHL Complete, EMBASE, and Google Scholar and found 13 research projects (n = 704 participants classified as limited community ambulators). Two reviewers independently rated relevant publications for their methodological quality. According to the investigators, limitations of this analysis include the challenge of effective blinding to meet the formal criteria of high-quality research, some studies suffered high attrition that limit generalizability but may also reflect the challenge of natural progression of underlying conditions

(e.g., vascular disease, diabetes) over longer observation periods, all studies reported some outcomes did not improve as expected, and the vast variety of parameters characterizing clinical outcomes. The investigators of this review are also noted as employed by a manufacture of MPKs. The authors concluded that the review suggests that limited community ambulators may experience reduced fall, fear of falling, and risk of falling, and improve mobility but indicate further research to study specific needs and characteristics of this population should be considered.

Deems-Dluhy et al. (2021) evaluated the potential of the microprocessor swing and stance-controlled knee-ankle-foot orthosis (MPO) on improving balance, functional mobility, and quality of life (QOL) in 18 individuals with lower-extremity impairments as compared to a stance-control-orthosis (SCO) and conventional knee-ankle-foot orthosis (KAFO) over 30 days of use. Assessments were done at baseline with the participants own device and again after training and use of each of the study devices. Performance-based outcome measures included walking endurance, gait speed, balance, functional sit to stand and outdoor ambulation; patient reported outcome measures included the Modified Falls Efficacy Scale (mFES) and the Orthotic and Prosthetic User's Survey (OPUS). Clinic visits included reports of any falls and adverse events. The results identified several performance-based measures improved significantly from baseline scores to posttesting scores with the participants that wore the C-Brace but not with the SCO. In addition, the ability to descend hills measured by hill assessment index showed the MPO group performed better and were able to walk significantly farther. The authors found improvements in both static and dynamic balance, gait speed, walking endurance, stair descent, and self-reported falls while using the MPO but not the SCO. Limitations included small sample size, inability to blind participants due to device type and short time frame of study.

Mileusnic et al. (2021) conducted a systematic review to evaluate the effect of the Genium knee on ambulation, mobility, activities of daily living (ADLs) and quality of life compared to standard MPKs. A search was conducted using PubMed, Cinahl and Cochrane Database of Systematic Reviews and returned 12 publications. Six publications contained randomized control cross-over design, five publications before-and-after design and one study used a cross-sectional design. Participant sample sizes ranged from 10 to 25 patients and follow up was anywhere from two days to three months. The overall quality of evidence was moderate to high except for one article. Data was gathered on how the Genium was assessed for walking, ramps and stairs. The authors found that while mobility and functional levels were both significantly improved and there were positive effects on the performance and safety of ADLs, it is unclear if the results can be generalized beyond community ambulators with a transfemoral amputation. Limitations included absence of blinding in all studies, short acclimation period for the patient with the prosthetic and small sample sizes.

Stevens and Wurdeman (2019) published clinical recommendations on prosthetic knee selection for unilateral amputees at the knee and transfemoral level. The following are the proposed recommendations:

- Fluid knee benefits and indications: knees with hydraulic or pneumatic swing resistance are indicated for active walkers, permitting increased walking comfort, speed, and symmetry.
- Microprocessor knee benefits when compared with non-microprocessor knees:
 - With respect to self-report indices and measures, microprocessor knees are indicated to reduce stumbles, falls, and associated frustrations as well as the cognitive demands of ambulation.
 - With respect to self-report indices and measures, microprocessor knees are indicated to increase confidence while walking, self-reported mobility, satisfaction, well-being, and quality of life.
 - With respect to physical performance indices and measures, microprocessor knees are indicated to increase self-selected walking speed, walking speed on uneven terrain, and metabolic efficiency during gait.
- Microprocessor knee equivalence: given the comparable values observed with the use of microprocessor and non-microprocessor knees with regard to daily step counts, temporal and spatial gait symmetry, self-reported general health, and total costs of prosthetic rehabilitation, these parameters may not be primary indications in prosthetic knee joint selection.
- Microprocessor knees for limited community ambulators: among limited community ambulators, microprocessor knees are indicated to enable increases in level ground walking speed and walking speed on uneven terrain while substantially reducing uncontrolled falls and increasing both measured and perceived balance

Kaufman et al. (2018, included in the Hahn et al. (2021) systematic review above) conducted a prospective non-randomized cross-over clinical trial with repetition to evaluate if limited community ambulators would benefit from a microprocessor-controlled knee (MPK). The aim of the study was to compare functional efficacy, patient satisfaction, and safety of MPK vs NMPK. The study included 50 unilateral transfemoral amputees (TFA) with a mean age of 69 (range 55-93) and a MFCL of K2 (n = 48) or K3 (n = 2) that were tested with current non-microprocessor knee (NMPK), then tested with a MPK after 10 weeks of acclimation. Participants were then retested with their original mechanical NMPK after 4 weeks of re-acclimation. Participants

were excluded if on dialysis, contained a history of acute or chronic residual limb skin breakdown or had a prosthetic socket adjustment within the previous 90 days. Participants self-assessed on nine validated scales for ambulation, appearance, frustration, perceived response, residual limb health, social burden, sounds, utility and well-being. Limitations of the study include safety data is directly linked to the ability to accurately monitor falls, increased burden on participants, use of recall that is limited by the extent of memory decay over time or under or over estimation, and intervention bias. A number of subjects (n = 21) did not complete the final data capture. The authors concluded that this trial confirmed that MPK use to patients with a TFA and MFCL K2 results in improved function in the free-living environment, a reduction in fall and improved patient satisfaction.

The Agency for Healthcare Research and Quality (AHRQ) conducted an effectiveness review (2018) on Lower Limb Prostheses (LLP). (Balk et al., 2018) A literature search was conducted in PubMed®, both the Cochrane Central Trials Registry and Cochrane Database of Systematic Reviews, Embase®, and CINAHL®/PsycINFO® databases and identified 77 articles for review; 52 articles addressed key questions (KQ) 1-3, fifteen articles addressed KQ 4, one article addressed KQ 6, nine articles addressed KQ 7 and no articles were found for KQ 5.

- What assessment techniques used to measure functional ability of adults with major lower limb amputation have been evaluated in the published literature?
- What prediction tools used to predict functional outcomes in adults with major lower limb amputation have been evaluated in the published literature?
- What functional outcome measurement tools used to assess adults who use an LLP have been evaluated in the published literature?
- In adults who use a lower limb prosthesis, how do ambulatory, functional, and patient-centered outcomes with different prosthesis components vary based on study participant characteristics?
- How do study participants' pre prescription expectations of ambulation align with their functional outcomes?
- What is the level of patient satisfaction with the process of accessing an LLP?
- At 6 months, 1 year, and 5 years after receipt of an LLP, (accounting for intervening mortality, subsequent surgeries, or injuries) what percentage of individuals maintain ambulation, continue to use their prosthesis as intended, have abandoned their prosthesis or have encountered major problems?

The following key findings were found:

- Since many specific measures can be used for at all stages of evaluation of function for amputees, it is difficult to effectively make the distinction between assessment techniques, prediction tools, and outcome measures.
- Among the 50 instruments found to assess the psychometric properties, 41 had evidence of test validity, 35 had evidence of reliability, and 28 had evidence of both test validity and reliability.
- 14 studies were found that compared LLP components along with provided data to compare differences in effect among different subgroups, however, most studies were small, underpowered, nonrandomized, reported only participant-level data, and did not evaluate heterogeneity of treatment effect. In addition, most of these studies evaluated knee components and most included younger men at K2 or K3 level, with unilateral transfemoral amputations with traumatic etiologies; only one study addressed a mean age greater than 65 years.
- No evidence was found that addressed how study participants' pre prescription expectations of ambulation aligned with their functional outcomes.
- As far as long-term followup, eight studies with at least 100 participants were found that addressed follow-up of at least 6 months after prescribed LLP, but only one of these studies was conducted in the United States and most (including the U.S. study) were published more than 10 years ago. There is insufficient or low evidence:
 - regarding failure to maintain bipedal ambulation
 - regarding use of prostheses only for transfers
 - regarding reasons why LLP amputees have poor outcomes in terms of their prostheses use
 - regarding rationale of amputees and why they have abandoned use of their prostheses at 1 year

Limitations of this review included that most studies were observational, evaluated only a limited set of patient characteristics lacking heterogeneity, and most long-term studies were conducted outside the U.S. which addressed a different healthcare system. Future research should include robust studies including amputation level and etiology, baseline K level or equivalent, living situation, and other participant functional status.

Kannenberg et al. (2014, included in Hahn et. al. (2021) systematic review above) conducted a systematic review on behalf of the manufacturer to evaluate if there is support that limited community ambulators (Medicare Functional Classification Level [MFCL]-2) may benefit from using a microprocessor-controlled prosthetic knee (MPK) in safety, performance-based function

and mobility, and perceived function and satisfaction. The investigators searched the Medline, EMBASE, PsychInfo, Cochrane Library, CINAHL, DARE, Cirrie, OTseeker, PEDro, and RECAL Legacy for terms related to MPKs and individuals with a unilateral transfemoral amputation (TFA) and MFCL-2 mobility grade. Two reviewers independently screened studies, extracted data, and assessed for relevance. Of 986 articles screened, 3 studies were eligible for final inclusion for safety outcomes (n = 27 with MFCL-2 mobility grade); 6 studies for performance-based function and mobility outcomes (n = 57 with MFCL-2 mobility grade); 5 articles on perceived function and satisfaction (n = 57 with MFCL-2 mobility grade). The authors concluded that the results of this systematic review of clinical trials of individuals with a unilateral TFA on interventions with MPKs suggest MPK use may significantly reduce uncontrolled falls by up to 80% and significantly improved fall risk. Performance-based outcome measures suggest individuals with MFCL-2 mobility grade may be able to walk about 14% - 25% faster on level ground, be around 20% quicker on uneven surfaces and descend a slope almost 30% faster when using an MPK. Trial fitting may be used to determine whether or not individuals with TFA and MFCL-2 mobility grade benefit from MPK use is also suggested by this systematic review. According to the authors, limitations of this systematic review was that the results of the studies were derived with low to moderate methodological quality in a limited number of patients, trial fittings with different types of MPKs and that the criteria for appraising success or failure of the trial fitting have been suggested. The authors indicate that the current general and ambiguous definitions of the MFCLs are a challenge and that an evidence-based and unambiguous quantifiable functional classification would help better define patient groups for clinical research.

Theeven et al. (2011) conducted a randomized cross-over trial on 41 participants to assess the effects of using a microprocessor-controlled prosthetic knee joint on the functional performance of ADLs in persons with a unilateral above-knee or knee disarticulation limb loss above knee leg amputation, classified as Medicare Functional Classification Level-2 (MFCL-2). The patients were tested in 3 different prosthetic knee joint conditions: 1) with their current mechanically controlled knee joint or manual locking knee, 2) with a knee joint featuring a microprocessor-controlled stance and swing phase (MPK-A), and 3) with a knee joint featuring a microprocessor-controlled stance phase (MPK-B). Baseline data was collected for the mechanically controlled knee joint condition and then performance using both MPK devices was compared to the use of the patient's mechanically controlled knee. After 13 participants dropped out, MPKs were randomly assigned to the remaining 28 participants by a blinded assessor. The test circuit utilized consisted of 11 circuit stations, where the participants were tested on 17 simulated daily activities. For each activity the performance time was recorded, and with the visual analogue scale (VAS), participants rated the perceived level of difficulty for each circuit station; 0 was deemed very easy to 100 which was considered very difficult. At the end of the study the participants were asked which type of knee joint they preferred in daily life. The authors found some participants preferred and benefited from the MPK-A, some participants preferred and benefited from the MPK-B and one patient preferred their own mechanically controlled prosthesis. These results illustrate a singular prosthesis may not be the best choice for an entire group of amputees; utilization of tests such as the ADAPT help to personalize the choice for the patient since each individual responds differently to a specific prosthesis.

Powered Microprocessor Prosthetic Ankles

There is insufficient evidence in the clinical literature demonstrating support for the use of powered microprocessor prosthetic ankles (MPAs) for transtibial amputations.

An evolving evidence review from Hayes (2022) focused specifically on the evidence to support the use of powered MPAs for transtibial amputations. There were no systematic reviews identified and a few poor-quality studies with variable outcomes. There were no professional guidelines identified.

Thomas-Pohla et al. (2021) investigated the relevance of microprocessor prosthetic ankles (MPAs) on six participants with transtibial amputation that currently wear an energy storing and returning (ESR) foot; the ability to stand on both level and inclined surfaces was evaluated. The study evaluated three MPAs: ElanVR Endolite (MPA1), MeridiumVR Ottobock (MPA2), ProprioFootVR Ossur (MPA3). All participants completed the simplified Activities-Specific Balance Confidence scale (ABC) questionnaire and underwent balance and mobility tests (the Berg Balance (BBS) scale and the 2-min walk test (2MWT)). Instrumental analysis was completed by furnishing the subjects in reflective markers and performance of several walking tasks; lower limb angular position and moment, Centre of Pressure (CoP) position, Ground Reaction Forces (GRF) and functional scores were collected stationary, on level ground and at 12% inclined slope. The authors concluded that increased ankle mobility is associated with better posture and slope balance and that the benefits of wearing MPAs had a direct relation to their design. Limitations included small sample size and lack of comparison group.

Kim et al. (2021) Twelve individuals with unilateral transtibial amputations (TTA) participated in a randomized clinical trial comparing unpowered prosthesis against the BiOM powered prosthesis. 7 people were randomly assigned to the powered

prosthesis group and the other 5 were part of the unpowered prosthesis group; 10 participants completed the full study. Inclusion criteria for the participants consisted of patients aged 21 years or older and had a unilateral TTA with prosthetic use for at least six months. The authors collected data on metabolic costs, walking speeds in-lab and in daily life, step count, step count away from home, perceived mobility, and preference between powered and unpowered prostheses. Participants completed the Prosthesis Evaluation Questionnaire (PEQ) which captured their mobility experience and quality of life. The authors concluded there was no significance between the two groups; wearing the powered prosthesis did not significantly decrease metabolic costs, increase physical activity or walking speed, or increase the individual's perceived mobility. Yet participants with the powered prosthesis reported they felt they could walk faster and with more ease but did complain about the battery life and weight of the prosthesis. Limitations included small sample size, lab environment assessments which contributed to the absence of real-world situations, and inaccurate data for the power operated device due to dead battery. Future studies with larger cohorts are warranted.

Kaluf et al. (2020) examined the differences in patient reported balance, mobility, socket comfort, and preference between a fixed-ankle energy-storing-and-returning (ESAR) foot and an MPA. 23 participants at a K3 level with unilateral transtibial amputation (UTA) were randomly assigned into two groups. Group AB received the MPA to use during the first 4-week period and Group BA received the ESAR foot; both groups then switched. A certified prosthetist performed all the fitting and alignment of each participant's prosthetic. At each visit, participants filled out patient reported outcome measures (PROM) which included the Activities Specific Balance Confidence Scale (ABC), Prosthesis Evaluation Questionnaire–Mobility Subscale (PEQ-MS), and Prosthetic Limb User Survey of Mobility (PLUS-M), Socket Comfort Score (SCS). At the end of study, each subject was interviewed by the research prosthetist and asked what they liked and disliked about both devices and which would be their choice for their daily prosthetic. The authors found the MPA showed significantly better patient reported outcomes when it came to walking and standing on sloped surfaces. Limitations included small sample size, male gender participants only and participants with K3 level functioning or higher. Future studies should examine type of ankle-foot system and type of socket suspension, physical therapy training, comparison groups along with including patients with lower classification levels.

Struchkov and Buckley (2016) studied nine unilateral trans-tibial amputees to determine whether use of a microprocessor-controlled passive-articulating (MPC) hydraulic ankle-foot device improved the gait biomechanics when compared to conventional ankle-foot mechanisms. Out of the nine participants, which were all classified as K3 users, 4 of them used an Elan, 4 an Echelon VT and one a Re-flex Rotate; all were familiarized with using an articulating ankle-foot device. The ramp used was custom made with a 5-degree incline and 2.8 m long/1 m wide walking surface. The participants completed trials at two speeds walking down the ramp with both active and inactive MPC and the comparable elastic foot device. Residual limb kinematics, joint moments/powers and prosthetic foot power absorption/return were compared across all ankle types using analysis of variance (ANOVA). The authors found that use of a MPC hydraulic foot reduced the biomechanical compensations used to walk down slopes. Limitations included small sample size, lack of comparison group, and limited education and use for the non-hydraulic foot may have skewed certain values/results.

Clinical Practice Guidelines

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

In a 2017 Clinical Practice Guideline for Rehabilitation of Individuals with Lower Limb Amputation, the following is recommended:

- Assessment of behavioral health and psychosocial functioning at every phase of amputation management and rehabilitation. (Weak recommendation)
- Institute rehabilitation training interventions, using both open and closed chain exercises and progressive resistance to improve gait, mobility, strength, cardiovascular fitness and activities of daily living performance in order to maximize function. (Strong recommendation)
- Microprocessor knee units over non-microprocessor knee units for ambulation to reduce risk of falls and maximize patient satisfaction. There is insufficient evidence to recommend for or against any particular socket design, prosthetic foot categories, and suspensions and interfaces. (Weak recommendation)
- Use of valid, reliable, and responsive functional outcome measures, including, but not limited to, the Comprehensive High-level Activity Mobility Predictor, Amputee Mobility Predictor, 10-meter walk test, and 6-minute walk test. (Strong recommendation)

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.

Prosthetic devices and components are classified by the FDA as Class I medical devices. Class I devices have the least amount of regulatory control; manufacturers of these devices are exempt from the premarket notification procedures and are not required to provide safety and effectiveness data prior to marketing. Examples of these devices include “ankle, foot, hip, knee, and socket components; mechanical or powered hand, hook, wrist unit, elbow joint, and shoulder joint components; and cable and prosthesis suction valves.” Additional information is available at: <https://www.fda.gov/medical-devices>. (Accessed October 31, 2022)

The OPRA™ Implant System is an Osseanchored Prostheses for the Rehabilitation of Amputees (OPRA) device and composed of parts that allow a prosthesis to attach directly to the femur (thigh bone). The device was granted FDA premarket approval on December 18, 2020. Additional information is available at: <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpma/pma.cfm?id=P190009>. (Accessed October 31, 2022)

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The foregoing Oxford policy has been adapted from an existing UnitedHealthcare national policy that was researched, developed and approved by UnitedHealthcare Medical Technology Assessment Committee. [2023T0645A]

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Policy History/Revision Information

Date	Summary of Changes
04/01/2023	<p>Title Change/Template Update</p> <ul style="list-style-type: none"> Relocated and reformatted content previously included in the Clinical Policy titled <i>Prosthetic Devices, Wigs, Specialized, Microprocessor or Myoelectric Limbs</i> <p>Related Policies</p> <ul style="list-style-type: none"> Added reference link to the Clinical Policy titled <i>Upper Extremity Myoelectric Prosthetic Devices</i> <p>Coverage Rationale</p> <ul style="list-style-type: none"> Revised language to indicate: <ul style="list-style-type: none"> A lower extremity prosthetic for amputations is proven and medically necessary in certain circumstances; for medical necessity clinical coverage criteria, refer to the InterQual® CP: Durable Medical Equipment Prosthetics, Lower Extremity An endoskeletal knee-shin system with microprocessor control feature (swing/stance phase) is unproven and not medically necessary due to insufficient evidence of efficacy for the following: <ul style="list-style-type: none"> Amputee with functional classification status of K1 or K2, and Transfemoral (above knee) amputation (includes knee disarticulation), or Hip disarticulation or hemipelvectomy A combined microprocessor-controlled ankle foot system with power assist is unproven and not medically necessary due to insufficient evidence of efficacy for the following: <ul style="list-style-type: none"> Transfemoral (above knee) amputation (includes knee disarticulation) Transtibial (below knee) amputation Hip disarticulation or hemipelvectomy <p>Documentation Requirements</p> <ul style="list-style-type: none"> Updated list of HCPCS codes with associated documentation requirements; removed L5420 and L5530 Updated list of <i>Required Clinical Information</i> to reflect/include: <ul style="list-style-type: none"> <i>Vendor Coversheet</i> with the narrative describing the request Vendor invoice listing the HCPCS codes, make model description, indicate if the item is right or left Other healthcare professional notes (i.e. physical therapist) Current prescription

Date	Summary of Changes
	<ul style="list-style-type: none"> ○ Physician office notes including documentation of: <ul style="list-style-type: none"> ▪ History related to the prosthetic request ▪ Examination findings to include strength, range of motion (ROM), condition of the contralateral limb, residual limb length and shape, and skin integrity of residual limb ▪ Co-morbidities ▪ Specify absent limb, including the date, level and etiology of amputation ▪ Current functional classification level include specific examples and expected rehab potential ▪ Describe limitations to Activities of Daily Living (ADLs) include assistive devices to facilitate ambulation within and outside the home ▪ Surfaces normally traversed include distance and environment ▪ Prosthetist notes to include medical justification for each of the requested prosthetic components ○ Specify if the request is for initial prosthetic, preparatory prosthetic, definitive prosthetic, replacement of the entire prosthetic leg, replacement of the prosthetic components/ accessories, or request for additional components and accessories ○ For replacement prosthesis, also include: <ul style="list-style-type: none"> ▪ The age of the current prosthesis and reason for replacement ▪ The components on the current prosthesis including socket, knee, foot, ankle, sock ply, and liner thickness ▪ Describe changes in limb including, but not limited to, comparative residual limb measurements ○ For socket replacement, also describe what adjustments have been tried and failed <p>Definitions</p> <ul style="list-style-type: none"> ● Added definition of: <ul style="list-style-type: none"> ○ Activities of Daily Living (ADLs) ○ Instrumental Activities of Daily Living (IADLs) ○ CMS Modifiers/Medicare Functional Classification Level (MFCL) ○ Modifier ○ Prosthesis ● Removed definition of: <ul style="list-style-type: none"> ○ Lower Limb Rehabilitation Classification Levels ● Updated definition of: <ul style="list-style-type: none"> ○ Medically Necessary ○ Myoelectric Prosthetic ○ Prosthetist <p>Applicable Codes</p> <ul style="list-style-type: none"> ● Added HCPCS codes L5781, L5782, L5990, L7367, and L7368 ● Removed HCPCS codes K1022, L7510, L7520, L8499, and L9900 <p>Supporting Information</p> <ul style="list-style-type: none"> ● Added <i>Description of Services</i>, <i>Benefit Considerations</i>, <i>Clinical Evidence</i>, and <i>FDA</i> sections ● Updated <i>References</i> section to reflect the most current information ● Archived previous policy version ADMINISTRATIVE 245.24

Instructions for Use

This Clinical Policy provides assistance in interpreting UnitedHealthcare Oxford standard benefit plans. When deciding coverage, the member specific benefit plan document must be referenced as the terms of the member specific benefit plan may differ from the standard plan. In the event of a conflict, the member specific benefit plan document governs. Before using this policy, please check the member specific benefit plan document and any applicable federal or state mandates. UnitedHealthcare Oxford reserves the right to modify its Policies as necessary. This Clinical Policy is provided for informational purposes. It does not constitute medical advice.

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