# MEDICAL POLICY – 1.04.05
## Microprocessor-Controlled Prostheses for the Lower Limb

<table>
<thead>
<tr>
<th>BCBSA Ref. Policy:</th>
<th>1.04.05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Date:</td>
<td>June 1, 2016</td>
</tr>
<tr>
<td>Last Revised:</td>
<td>Sept. 22, 2017</td>
</tr>
<tr>
<td>Replaces:</td>
<td>1.01.25 and 1.01.513</td>
</tr>
</tbody>
</table>

**Related Medical Policies:**
- 1.04.502  Myoelectric Prosthetic Components for the Upper Limb
- 8.03.01   Functional Neuromuscular Electrical Stimulation

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Select a hyperlink below to be directed to that section.

- POLICY CRITERIA
- CODING
- RELATED INFORMATION
- EVIDENCE REVIEW
- REFERENCES
- HISTORY

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## Introduction

After a person has had a limb amputated, an artificial limb (prosthesis) may be used. Computerized, microprocessor controlled prosthetic joints have been developed that contain sensors to automatically adjust movement of the joint. When the prosthesis involves a knee joint, a microprocessor controlled prosthetic joint is thought to help a person walk more safely and smoothly.

This policy describes when a microprocessor controlled prosthetic device may be medically necessary.

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**Note:** The Introduction section is for your general knowledge and is not to be taken as policy coverage criteria. The rest of the policy uses specific words and concepts familiar to medical professionals. It is intended for providers. A provider can be a person, such as a doctor, nurse, psychologist, or dentist. A provider also can be a place where medical care is given, like a hospital, clinic, or lab. This policy informs them about when a service may be covered.

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### Policy Coverage Criteria
### Service | Medical Necessity
--- | ---
**Microprocessor-controlled knee** | A microprocessor-controlled knee may be considered medically necessary in amputees who meet ALL of the following requirements:
- Demonstrated need for long distance ambulation at variable rates (use of the limb in the home or for basic community ambulation is not sufficient to justify provision of the computerized limb over standard limb applications) **OR** demonstrated patient need for regular ambulation on uneven terrain or for regular use on stairs (use of the limb for limited stair climbing in the home or employment environment is not sufficient evidence for prescription of this device over standard prosthetic application)
- **AND**
  - Physical ability, including adequate cardiovascular and pulmonary reserve, for ambulation at faster than normal walking speed
- **AND**
  - Adequate cognitive ability to master use and care requirements for the technology.

**A microprocessor-controlled knee is considered not medically necessary in individuals who do not meet these criteria.**

### Service | Investigational
--- | ---
**Powered knee** | A powered knee is considered investigational.

**Microprocessor-controlled or powered foot** | A microprocessor-controlled or powered foot is considered investigational.

### Additional Guidelines
Microprocessor-controlled prosthetic knees are programmable devices equipped with a sensor that detects when the knee is in full extension and adjusts the swing phase automatically, permitting a more natural walking pattern of varying speeds. (See Table 1.) These lower limb prosthetics will most likely have a prosthetic foot attached that may or may not be powered or controlled by a microprocessor.
Additional Guidelines

Microprocessor-controlled prosthetic feet have sensors that control the flexion angle of the ankle. This programmable ankle/foot prosthesis is considered investigational. (See Table 2.) Other conventional types of prosthetic feet do not require review under this medical policy.

An independent qualified professional should evaluate the amputee to help determine the most appropriate prosthetic components and control mechanism. A trial period in a real-life setting may be indicated to evaluate the tolerability and efficacy of the prosthesis during usual activities of daily living.

Decisions about the potential benefits of microprocessor-knees involve multiple factors including activity levels, as well as the patient’s physical and cognitive ability. Typically, daily and frequent participation in 2 or more of the following activities would be needed to show benefit from having the microprocessor-controlled knee:

- Ambulation of at least 400 continuous yards
- Ambulation at variable cadence (ie, speed of walking changes often)
- Ambulation on uneven terrain (eg, gravel, grass, curbs)
- Use of ramps and/or stairs (especially stair descent)

Individuals who have a functional level of K3-4 may benefit the most from this specialty prosthetic limb. (See Veterans Health Administration guidelines below for Medicare classification of rehab potential)

When the potential benefits of the microprocessor knee is uncertain, patients may first try a custom fit nonprogrammable prosthesis to determine their level of function with the standard device.

Veterans Health Administration Prosthetic Clinical Management Program (VHA PCMP) Recommendations

The following are guidelines from the VHA PCMP Clinical Practice Recommendations for Microprocessor Knees:

Patient Selection and Identification

Contraindications for use of the microprocessor knee should include:

- Any condition that prevents socket fitting, such as a complicated wound or intractable pain which precludes socket wear
- Inability to tolerate the weight of the prosthesis
- Medicare Level K 0—no ability or potential to ambulate or transfer
Additional Guidelines

- Medicare Level K 1—limited ability to transfer or ambulate on level ground at fixed cadence
- Medicare Level K 2—limited community ambulator that does not have the cardiovascular reserve, strength, and balance to improve stability in stance to permit increased independence, less risk of falls, and potential to advance to a less-restrictive walking device
- Inability to use swing and stance features of the knee unit
- Poor balance or ataxia that limits ambulation
- Significant hip flexion contracture (over 20 degrees)
- Significant deformity of remaining limb that would impair ability to stride
- Limited cardiovascular and/or pulmonary reserve or profound weakness
- Limited cognitive ability to understand gait sequencing or care requirements
- Long distance or competitive running
- Falls outside of recommended weight or height guidelines of manufacturer
- Specific environmental factors—such as excessive moisture or dust, or inability to charge the prosthesis
- Extremely rural conditions where maintenance ability is limited

Indications for use of the microprocessor knee should include:

- Adequate cardiovascular and pulmonary reserve to ambulate at variable cadence
- Adequate strength and balance in stride to activate the knee unit
- Should not exceed the weight or height restrictions of the device
- Adequate cognitive ability to master technology and gait requirements of device
- Patient is an active walker and requires a device that reduces energy consumption to permit longer distances with less fatigue
- Daily activities or job tasks that do not permit full focus of concentration on knee control and stability—such as uneven terrain, ramps, curbs, stairs, repetitive lifting, and/or carrying
- Medicare Level K 2—limited community ambulator, but only if improved stability in stance permits increased independence, less risk of falls, and potential to advance to a less restrictive walking device, and patient has cardiovascular reserve, strength, and balance to use the prosthesis. The microprocessor enables fine-tuning and adjustment of the hydraulic mechanism to accommodate the unique motor skills and demands of the functional level K2 ambulator
- Medicare Level K 3—unlimited community ambulator
- Medicare Level K 4—active adult, athlete who has the need to function as a K 3 level in daily activities
- Potential to lessen back pain by providing more secure stance control, using less muscle control to keep knee stable
- Potential to unload and decrease stress on remaining limb
Additional Guidelines

- Potential to return to an active lifestyle
- If a hemipelvectomy has been done, lower extremity amputees are candidates for a microprocessor knee if they meet the “Indications for use of the microprocessor knee” as listed above

Physical and functional fitting criteria for new amputees:

- New amputees may be considered if they meet certain criteria as outlined above
- Premorbid and current functional assessment important determinant
- Requires stable wound and ability to fit socket
- Immediate postoperative fit is possible
- Must have potential to return to an active lifestyle

Orthotics, prosthetics, or prosthetic components added to a conventional prosthesis are not covered when:

- It is considered experimental or investigational or used for experimental or investigational therapy or interventions
- It is used only for recreational, sports or athletic activities
- It is available over-the-counter or off-the-shelf without a prescription from the treating physician or consultation with a prosthetist

Table 1. Microprocessor-Controlled Knee Prosthetics

Names of Microprocessor-Controlled Knee Prosthetics (company) include but are not limited to:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptive (Endolite, Blatchford Inc. United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>C-Leg Compact (Otto Bock Orthopedic Industry, Minneapolis, MN)</td>
<td></td>
</tr>
<tr>
<td>Endolite Intelligent/Smart Prosthesis (Endolite, Blatchford Inc. United Kingdom)</td>
<td>Endolite Intelligent/Smart Prosthesis (Endolite, Blatchford Inc. United Kingdom)</td>
</tr>
<tr>
<td>Genium Bionic Prosthetic system (Otto Bock Orthopedic Industry, Minneapolis, MN)</td>
<td>Genium Bionic Prosthetic system (Otto Bock Orthopedic Industry, Minneapolis, MN)</td>
</tr>
<tr>
<td>Intelligent Prosthesis (IP) (Blatchford, United Kingdom)</td>
<td>Intelligent Prosthesis (IP) (Blatchford, United Kingdom)</td>
</tr>
<tr>
<td>Linx (Endolite, Blatchford Inc. United Kingdom)</td>
<td>Linx (Endolite, Blatchford Inc. United Kingdom)</td>
</tr>
<tr>
<td>Orion 2 (Endolite, Blatchford Inc. United Kingdom)</td>
<td>Orion 2 (Endolite, Blatchford Inc. United Kingdom)</td>
</tr>
<tr>
<td>Power Knee™ (Ossur, Iceland)</td>
<td>Power Knee™ (Ossur, Iceland)</td>
</tr>
<tr>
<td>RheoKnee® (Ossur, Iceland)</td>
<td>RheoKnee® (Ossur, Iceland)</td>
</tr>
<tr>
<td>Seattle Power Knees (Seattle Systems) 3 models include:</td>
<td>Seattle Power Knees (Seattle Systems) 3 models include:</td>
</tr>
</tbody>
</table>
Names of Microprocessor-Controlled Knee Prosthetics (company) include but are not limited to:

- 4-bar
- Fusion
- Single Axis

X2 prostheses (Otto Bock Orthopedic Industry, Minneapolis, MN)

Table 2. Microprocessor-Controlled or Powered Foot Prosthetics

Names of Microprocessor-Controlled Foot Prosthetics (company) include but are not limited to:

- élan Foot (Endolite)
- iPED (developed by Martin Bionics LLC and licensed to College Park Industries)
- Proprio Foot® (Össur, Iceland)
- PowerFoot Biom® (developed at MIT and licensed to iWalk)

Coding

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5856</td>
<td>Addition to lower extremity prosthesis, endoskeletal knee-shin system, microprocessor control feature, swing and stance phase, includes electronic sensor(s), any type</td>
</tr>
<tr>
<td>L5857</td>
<td>Addition to lower extremity prosthesis, endoskeletal knee-shin system, microprocessor control feature, swing phase only, includes electronic sensor(s), any type</td>
</tr>
<tr>
<td>L5858</td>
<td>Addition to lower extremity prosthesis, endoskeletal knee skin system, microprocessor control feature, stance phase only, includes electronic sensor(s), any type</td>
</tr>
<tr>
<td>L5973</td>
<td>Endoskeletal ankle foot system, microprocessor controlled feature, dorsiflexion and/or plantar flexion control, includes power source</td>
</tr>
<tr>
<td>L5999</td>
<td>Lower extremity prosthesis, not otherwise specified</td>
</tr>
</tbody>
</table>

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Related Information

Benefit Application

Contractual or benefit limitations on durable medical equipment or prostheses upgrades may be applicable.

New technologies that use microprocessor control are being developed. Based on currently available evidence, no microprocessor-controlled device has been shown to have better outcomes than other (eg, earlier) models. If more costly, the prosthesis would be considered not medically necessary using the Plan’s definition of medical necessity. Benefit or contract language describing the "least costly alternative" may also be applicable to prostheses.

Evidence Review

Description

Microprocessor-controlled prostheses use feedback from sensors to adjust joint movement on a real-time as-needed basis. Active joint control is intended to improve safety and function, particularly for patients who have the capability to maneuver on uneven terrain and with variable gait.

Background

More than 100 different prosthetic ankle-foot and knee designs are currently available. The choice of the most appropriate design may depend on the patient’s underlying activity level. For example, the requirements of a prosthetic knee in an elderly, largely homebound individual will be quite different than a younger, active person. In general, key elements of a prosthetic knee design involve providing stability during both the stance and swing phase of the gait. Prosthetic knees also vary in their ability to alter the cadence of the gait, or the ability to walk on rough or uneven surfaces. In contrast to more simple prostheses, which are designed to function optimally at one walking cadence, fluid and hydraulic-controlled devices are designed to allow...
amputees to vary their walking speed by matching the movement of the shin portion of the prosthesis to the movement the upper leg. For example, the rate at which the knee flexes after “toe-off” and then extends before heel strike depends in part on the mechanical characteristics of the prosthetic knee joint. If the resistance to flexion and extension of the joint does not vary with gait speed, the prosthetic knee extends too quickly or too slowly relative to the heel strike if the cadence is altered. When properly controlled, hydraulic or pneumatic swing-phase controls allow the prosthetist to set a pace that is adjusted to the individual amputee, from very slow to a race-walking pace. Hydraulic prostheses are heavier than other options and require gait training; for these reasons, these prostheses are generally prescribed for athletic or fit individuals. Other design features include multiple centers of rotation, referred to as “polycentric knees.” The mechanical complexity of these devices allows engineers to optimize selected stance and swing-phase features.

Microprocessor-Controlled Prosthetic Knees

Microprocessor-controlled prosthetic knees have been developed, including the Intelligent Prosthesis (IP) (Blatchford, England), The Adaptive (Endolite, England), the Rheo Knee® (Össur, Iceland), the C-LEG®, Genium™ Bionic Prosthetic System, and the X2 and X3 prostheses (Otto Bock Orthopedic Industry, Minneapolis, MN), and Seattle Power Knees (3 models include Single Axis, 4-bar and fusion, from Seattle Systems). These devices are equipped with a sensor that detects when the knee is in full extension and adjusts the swing phase automatically, permitting a more natural walking pattern of varying speeds. For example, the prosthetist can specify several different optimal adjustments that the computer later selects and applies according to the pace of ambulation. In addition, these devices (with the exception of the IP) use microprocessor control in both the swing and stance phases of gait. (The C-Leg Compact provides only stance control.) By improving stance control, they may provide increased safety, stability, and function; for example, the sensors are designed to recognize a stumble and will stiffen the knee, thus avoiding a fall. Other potential benefits of microprocessor-controlled knee prostheses are improved ability to navigate stairs, slopes, and uneven terrain and reduction in energy expenditure and concentration required for ambulation. The C-Leg was cleared for marketing in 1999 through the 510(k) process of the U.S. Food and Drug Administration (FDA; K991590). Next-generation devices such as the Genium Bionic Prosthetic system and the X2 and X3 prostheses utilize additional environmental input (eg, gyroscope and accelerometer) and more sophisticated processing that are intended to create more natural movement. One improvement in function is step-over-step stair and ramp ascent. They also allow the user to walk and run forward and backward. The X3 is a more rugged version of the X2 that can be
used, for example, in water, sand, and mud. The X2 and X3 were developed by Otto Bock as part of the Military Amputee Research Program.

**Microprocessor-Controlled Ankle-foot Prostheses**

Microprocessor-controlled ankle-foot prostheses are being developed for transtibial amputees. These include the Proprio Foot® (Össur), the iPED (developed by Martin Bionics and licensed to College Park Industries), and the Elan Foot (Endolite). With sensors in the feet that determine the direction and speed of the foot’s movement, a microprocessor controls the flexion angle of the ankle, allowing the foot to lift during the swing phase and potentially adjust to changes in force, speed, and terrain during the step phase. The intent of the technology is to make ambulation more efficient and prevent falls in patients ranging from the young active amputee to the elderly diabetic patient. The Proprio Foot™ and Elan Foot are microprocessor-controlled foot prostheses that are commercially available at this time and are considered class I devices that are exempt from 510(k) marketing clearance. Information on the Össur website indicates use of the Proprio Foot™ for low- to moderate-impact for transtibial amputees who are classified as level K3 (ie, community ambulatory, with the ability or potential for ambulation with variable cadence).

**Powered Prostheses**

In development are lower-limb prostheses that also replace muscle activity in order to bend and straighten the prosthetic joint. For example, the PowerFoot Biom® (developed at the Massachusetts Institute of Technology and licensed to iWalk) is a myoelectric prosthesis for transtibial amputees that uses muscle activity from the remaining limb for the control of ankle movement (see Related Policies). This prosthesis is designed to propel the foot forward as it pushes off the ground during the gait cycle, which in addition to improving efficiency, has the potential to reduce hip and back problems arising from an unnatural gait with use of a passive prosthesis. This technology is limited by the size and the weight required for a motor and batteries in the prosthesis.

The Power Knee™ (Össur), which is designed to replace muscle activity of the quadriceps, uses artificial proprioception with sensors similar to the Proprio Foot in order to anticipate and respond with the appropriate movement required for the next step. The Power Knee is currently in the initial launch phase in the United States.
Summary of Evidence

Microprocessor-controlled prostheses use feedback from sensors to adjust joint movement on a real-time as-needed basis. The literature consists of a number of small within-subject comparisons of microprocessor-controlled knees versus hydraulic knee joints. For K3- and K4-level amputees, studies show an objective improvement in function on some outcome measures and a strong patient preference for microprocessor-controlled prosthetic knees. Benefits include a more normal gait, an increase in stability, a decrease in falls, and a decrease in the cognitive burden associated with monitoring the prosthesis. It is concluded that a microprocessor-controlled knee may provide incremental benefit for these individuals. Those considered most likely to benefit from these prostheses have both the potential and need for frequent ambulation at variable cadence, on uneven terrain, or on stairs. The potential to achieve a high functional level with a microprocessor-controlled knee includes having the appropriate physical and cognitive ability to be able to use the advanced technology.

Evidence is insufficient to permit conclusions regarding the effect of a microprocessor-controlled prosthesis on health outcomes in limited community ambulators. Evidence is also insufficient to permit conclusions regarding the effect of a next-generation microprocessor-controlled prosthesis on health outcomes. Therefore, these are considered investigational.

The limited evidence available to date does not support an improvement in functional outcomes with a microprocessor-controlled or powered ankle-foot prostheses compared with standard prostheses. Therefore, microprocessor-controlled or powered ankle-foot prostheses are considered investigational.

Ongoing and Unpublished Clinical Trials

Some ongoing trials that might influence this policy are listed in Table 3.

Table 3. Summary of Key Trials

<table>
<thead>
<tr>
<th>NCT No.</th>
<th>Trial Name</th>
<th>Planned Enrollment</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ongoing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NCT02382991*</td>
<td>Randomized, Cross-over Study Comparing the Efficacy of the 3C60 Knee Against Non-microprocessor Controlled Knees on the Risk of Falling and Locomotor Skills of</td>
<td>40</td>
<td>Sep 2015</td>
</tr>
</tbody>
</table>
Clinical Input Received from Physician Specialty Societies and Academic Medical Centers

External clinical input was not formally solicited for this policy.

Practice Guidelines and Position Statements

The VAs’ Prosthetic and Sensory Aids Strategic Healthcare Group was directed by the Under Secretary for Health to establish a Prosthetic Clinical Management Program to coordinate the development of clinical practice recommendations for prosthetic prescriptive practices. The New Technology Subgroup of the Pre-Post National Amputation Workgroup met in April 2004 to develop a proposal to define patient selection and identification criteria for microprocessor-prosthetic knees. Their proposal was based on recommendations arising from the May 2003 Microprocessor Prosthetic Knee Forum, hosted at Walter Reed Army Medical Center and sponsored and funded by the American Academy of Orthotists and Prosthetists. The resulting VA Clinical Practice Recommendations for microprocessor knees are listed above.

Medicare National Coverage

Durable medical equipment regional carriers (DMERC) are responsible for creating coverage policies for Medicare regarding durable medical equipment. There is no specific coverage policy on microprocessor-controlled knee prosthesis, in part because there is no specific HCPCS code describing this prosthesis. However, the DMERC document notes that a determination of medical necessity for certain components/additions to the prosthesis is based on the patient’s potential functional abilities. Potential functional ability is based on the reasonable

<table>
<thead>
<tr>
<th>NCT No.</th>
<th>Trial Name</th>
<th>Planned Enrollment</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCT02240186</td>
<td>Comparative Effectiveness Between Microprocessor Knees and Non-Microprocessor Knees</td>
<td>50</td>
<td>Jun 2016</td>
</tr>
</tbody>
</table>

NCT: national clinical trial.

* Denotes industry-sponsored or cosponsored trial.
expectations of the prosthetist and treating physician, considering factors including, but not limited to:

- The patient’s past history

AND

- The patient’s current condition including the status of the residual limb and the nature of other medical problems

AND

- The patient’s desire to ambulate

Table 4. Classification of Rehabilitation Potential

<table>
<thead>
<tr>
<th>Level</th>
<th>Rehabilitation Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 0</td>
<td>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.</td>
</tr>
<tr>
<td>Level 1</td>
<td>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 ambulatory.</td>
</tr>
<tr>
<td>Level 2</td>
<td>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 ambulatory.</td>
</tr>
<tr>
<td>Level 3</td>
<td>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.</td>
</tr>
<tr>
<td>Level 4</td>
<td>Has the ability or potential for prosthetic ambulation that exceeds basic ambulation skills, exhibiting high impact, stress, or energy levels. Typical of the prosthetic demand of the child, active adult, or athlete.</td>
</tr>
</tbody>
</table>

Regulatory Status

Microprocessor-controlled prostheses are categorized as class I, exempt devices. Manufacturers must register prostheses with the restorative devices branch of FDA and keep a record of any complaints but do not have to undergo a full FDA review.

FDA product codes: ISW, KFX.
References


<table>
<thead>
<tr>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01.25 (Issue 3:2003).</td>
<td></td>
</tr>
<tr>
<td>09/01/04</td>
<td>Replace Policy - Policy renumbered from PR.1.01.113. No date changes.</td>
</tr>
<tr>
<td>02/08/05</td>
<td>Replace Policy - Policy reviewed with literature search through December 2004; no change to policy statement; references added.</td>
</tr>
<tr>
<td>02/14/06</td>
<td>Replace Policy - Policy reviewed with literature search; no change to policy statement; reference added.</td>
</tr>
<tr>
<td>02/22/06</td>
<td>Codes updated - No other changes, effective date unchanged.</td>
</tr>
<tr>
<td>05/26/06</td>
<td>Update Scope and Disclaimer - No other changes.</td>
</tr>
<tr>
<td>03/13/07</td>
<td>Replace Policy - Policy updated with literature review; reference added. No change in policy statement.</td>
</tr>
<tr>
<td>05/13/08</td>
<td>New BC Policy - Replaces PR.1.01.513, status changed from PR to BC. A microprocessor-controlled knee may be considered medically necessary in amputees who meet the criteria listed. When criteria are not met, it is considered not medically necessary.</td>
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<tr>
<td>05/12/09</td>
<td>Replace Policy - Policy updated with literature search. Policy statements added regarding ankle-foot and powered knee prostheses as investigational. References added.</td>
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<tr>
<td>02/09/10</td>
<td>Code Update - New 2010 codes added.</td>
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<tr>
<td>04/13/10</td>
<td>Replace Policy - Policy updated with literature search; no change to the policy statement. References added.</td>
</tr>
<tr>
<td>06/13/11</td>
<td>Replace Policy - Policy updated with literature review through January 2011; reference 21 added; policy number changed from 1.01.25 to 1.04.05 (prosthetics); policy statements unchanged. ICD-10 codes added to policy.</td>
</tr>
<tr>
<td>01/27/12</td>
<td>HCPCS code L5312 added.</td>
</tr>
<tr>
<td>05/22/12</td>
<td>Replace policy. Policy updated with literature review through December 2011; Rationale revised; references 3, 16, 17, 22 added; some references removed. Policy statements unchanged.</td>
</tr>
<tr>
<td>08/24/12</td>
<td>Update Coding Section – ICD-10 codes are now effective 10/01/2014.</td>
</tr>
<tr>
<td>05/28/13</td>
<td>Replace policy. Policy updated with literature review through February 1, 2013; Rationale revised; references 12, 15, 17, 23, 26-27 added and references reordered; policy statements unchanged.</td>
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<tr>
<td>08/14/13</td>
<td>Update Related Policies. Change title to policy 1.04.04.</td>
</tr>
<tr>
<td>03/21/14</td>
<td>Update Related Policies. 1.04.04 was deleted and replaced with 1.04.502.</td>
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</table>
08/11/14 | Interim Update. Policy Guidelines added with details about when orthotics, prosthetics, or prosthetic components added to a conventional prosthesis are not covered. No new references added. Policy statements unchanged. HCPCS codes L5845 removed from policy; this is not reviewed.

06/17/15 | Annual Review. Two tables added to the Policy Guidelines section that list examples of microprocessor-controlled prosthetic knees and feet for the lower limb. Policy Guideline statement added that conventional prosthetic foot is not subject to review under this medical policy. Policy updated with literature review through January 29, 2015. Reference 19 added; others renumbered. Policy statements unchanged. ICD-9 diagnosis codes removed; no utilized in adjudication. HCPCS codes L5312 and L5856 removed; these are not reviewed.

06/01/16 | Annual Review, approved May 10, 2016. Policy reviewed with literature search; policy statement unchanged.

09/22/17 | Policy moved to new format. No changes to policy statements.

**Disclaimer:** This medical policy is a guide in evaluating the medical necessity of a particular service or treatment. The Company adopts policies after careful review of published peer-reviewed scientific literature, national guidelines and local standards of practice. Since medical technology is constantly changing, the Company reserves the right to review and update policies as appropriate. Member contracts differ in their benefits. Always consult the member benefit booklet or contact a member service representative to determine coverage for a specific medical service or supply. CPT codes, descriptions and materials are copyrighted by the American Medical Association (AMA). ©2017 Premera All Rights Reserved.

**Scope:** Medical policies are systematically developed guidelines that serve as a resource for Company staff when determining coverage for specific medical procedures, drugs or devices. Coverage for medical services is subject to the limits and conditions of the member benefit plan. Members and their providers should consult the member benefit booklet or contact a customer service representative to determine whether there are any benefit limitations applicable to this service or supply. This medical policy does not apply to Medicare Advantage.
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  ▪ Qualified interpreters
  ▪ Information written in other languages

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Email AppealsDepartmentInquiries@Premera.com

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U.S. Department of Health and Human Services
200 Independence Avenue SW, Room S09F, HHH Building
Washington, D.C. 20201, 1-800-368-1019, 800-537-7697 (TDD)
Complaint forms are available at

Getting Help in Other Languages

This Notice has Important Information. This notice may have important information about your application or coverage through Premera Blue Cross. There may be key dates in this notice. You may need to take action by certain deadlines to keep your health coverage or help with costs. You have the right to get this information and help in your language at no cost. Call 800-722-1471 (TTY: 800-842-5357).

Oromo (Cushite):

Français (French):

Kreyòl ayisyen (Creole):
Avi sila a gen enfòmasyon enpòtan laiddan. Avi sila a kapab genyen enfòmasyon enpòtan konsèn ak aplikasyon w jw ôswa kouvèti asirans lan atravè Premera Blue Cross. Kapab genyen dat ki enpòtan nan avi sila a. Ou ka gen pou pou travè akasyon avan sèten dat limit pou ka menbe kouvèti asirans sante w la ôswa pou yo ka ede w avèk depans yo. Se dwa w pou resewwa enfòmasyon sa a ak asistans nan lang ou pale a, san ou pa gen pou peye ou pou sa. Rate nan 800-722-1471 (TTY: 800-842-5357).

Deutsche (German):

Hmoob (Hmong):
Tsab ntawv tshaj xo no muaj cov ntshiab lus tseem ceeb. Tej zuam tsab ntawv tshaj xo no muaj cov ntshiab lus tseem ceeb tseb koj dain ntawv thov kev pas yoy lus ko yo cov kev pas cuam los ntawm Premera Blue Cross. Tej zuam muaj cov hnub tseem ceeb uss rau hauv daim ntawm no. Tej zuam koj koy juav tau uu qee yam uss peb koj us tis ipub dhau cov caij nyoy uas teev tseg rau hauv daim ntawv no mas koy koy juav tau baais kev pas cuam kho moh los yoy kev pas buam them tej qni kho moh ntawv. Koy muaj cai kom lawv muab cov ntshiab lus no uas tau mbu saub uu koj hom lus pub dawb rau koj. Hau rau 800-722-1471 (TTY: 800-842-5357).

Ilokano (Illocano):
Daytoy a Pakdaak ket naglaon iti Napateg nga Impormasion. Daytoy a pakdaak mabalbin nga adda ket naglaon iti napateg nga impormasion maiupangppet iti aplikasyonow no coverange baben ait Premera Blue Cross. Daytoy ket mabalbin dagiti importante a palsa iti daytoy a pakdaak. Mabalbin nga adda rumbeng nga aramideng nga adda sabbay dagiti partikulark ait nalidung nga adda tidaw tapono mapatgalinneyo a toringa ti salan-atyo woyen tulong kadagit gastos. Adda karbenganyo a mangala iti daytoy nga impormasion ken tulong iti bukodyo a pagasasao nga awan ti bayadanyo. Tumawag ti numero nga 800-722-1471 (TTY: 800-842-5357).

Italiano (Italian):
Premera Blue Cross. Потребуется принять определенные предельные сроки для сохранения страхового покрытия или помощи с расходами. Вы имеете право на бесплатное получение этой информации и помощь на вашем языке. Звоните по телефону 800-722-1471 (TTY: 800-842-5357).

Español (Spanish): Este Aviso contiene información importante. Es posible que este aviso contenga información importante acerca de su solicitud de cobertura a través de Premera Blue Cross. Es posible que haya fechas clave en este aviso. Es posible que deba tomar alguna medida antes de determinadas fechas para mantener su cobertura médica o ayuda con los costos. Usted tiene derecho a recibir esta información y ayuda en su idioma sin costo alguno. Llame al 800-722-1471 (TTY: 800-842-5357).


Thai (Thai): ประกาศนี้มีข้อมูลสำคัญ ประกาศนี้มีข้อมูลสำคัญเกี่ยวกับการติดต่อของข้อมูลเกี่ยวกับสิทธิของคุณ Premera Blue Cross และการปรับปรุงการปฏิบัติงานของคุณคุณ คุณตรวจสอบข้อมูลในประกาศนี้แล้วคุณจะทราบข้อมูลเกี่ยวกับสิทธิของคุณในการซื้อและการรับการช่วยเหลือที่มีให้เช่า คุณมีสิทธิที่จะได้รับข้อมูลและความช่วยเหลือที่มีในภาษาของคุณโดยไม่มีค่าใช้จ่าย โทร 800-722-1471 (TTY: 800-842-5357).

Український (Ukrainian): Це повідомлення містить важливу інформацію. Це повідомлення може містити важливу інформацію про Ваше звернення щодо страхувального покриття через Premera Blue Cross. Зверніть увагу на ключові дати, які можуть бути важливі у цьому повідомленні. Існує імовірність того, що Вам треba буде здійснити певні кроки у конкретні кінцеві строки для того, щоб забезпечити Ваше медичне страхування або отримати фінансову допомогу. У Вас є право на отримання цієї інформації та допомоги безкоштовно на Вашій рідній мові. Дзвоніть за номером телефону 800-722-1471 (TTY: 800-842-5357).


日本語 (Japanese): この通知には重要な情報が含まれています。この通知には、Premera Blue Crossの申請または補償に関する重要な情報が含まれている場合があります。この通知には記載されている情報がある可能性がある日をご確認ください。健康保険や無料サポートを維持するには、特定の期日までに行動を取りなければなりません。ご希望の言語による情報とサポートが無料で提供されます。800-722-1471 (TTY: 800-842-5357)までお電話ください。