Medicare C/D Medical Coverage Policy

Pneumatic Compression Device

Origination: March 3, 2000  
Review Date: December 16, 2015  
Next Review: December, 2017

DESCRIPTION OF PROCEDURE OR SERVICE
Pneumatic compression devices (PCD) consist of an inflatable garment for the arm or leg and an electrical pneumatic pump that fills the garment with compressed air. The garment is intermittently inflated and deflated with cycle times and pressures that vary between devices. Pneumatic devices are covered for the treatment of lymphedema or for the treatment of chronic venous insufficiency with venous stasis ulcers.

Lymphedema is the swelling of subcutaneous tissues due to the accumulation of excessive lymph fluid. Lymphedema is manifested as primary or secondary and is caused by an interruption in the lymphatic drainage.

- Primary lymphedema is a relatively uncommon, chronic condition that may be due to such causes as Milroy’s Disease or congenital anomalies.

- Secondary lymphedema, which is much more common, results from the destruction of or damage to formerly functioning lymphatic channels, such as radical surgical procedures with removal of regional groups of lymph nodes (for example, after radical mastectomy), post-radiation fibrosis, and spread of malignant tumors to regional lymph nodes with lymphatic obstruction, among other causes. It may also be a result from compression of the lymphatic and venous channels resulting from leakage of fluid into interstitial tissues in members with chronic venous insufficiency.

The goal of treatment for lymphedema is aimed at preventing further swelling or injury to the affected limb. First line treatment options should be instituted before progressing to pneumatic compression pumps. Multi-modal therapy is often more effective than single modality therapy.

Chronic venous insufficiency (CVI) of the lower extremities is a condition caused by abnormalities of the venous wall and valves, leading to obstruction or reflux of blood flow in the veins. Signs of CVI include hyperpigmentation, stasis dermatitis, chronic edema, and venous ulcers.
Peripheral Arterial Disease (PAD) is a circulatory problem in which narrowed arteries reduce blood flow to limbs, resulting in compromised blood flow to distal tissues and failure to keep up with oxygen demands.

**POLICY STATEMENT**
Coverage will be provided for lymphedema when it is determined to be medically necessary, as outlined in the below guidelines and medical criteria.

**BENEFIT APPLICATION**
Please refer to the member's individual Evidence of Coverage (EOC) for benefit determination. Coverage will be approved according to the EOC limitations if the criteria are met.

Coverage decisions will be made in accordance with:
- The Centers for Medicare & Medicaid Services (CMS) national coverage decisions;
- General coverage guidelines included in original Medicare manuals unless superseded by operational policy letters or regulations; and
- Written coverage decisions of local Medicare carriers and intermediaries with jurisdiction for claims in the geographic area in which services are covered.

Benefit payments are subject to contractual obligations of the Plan. If there is a conflict between the general policy guidelines contained in the Medical Coverage Policy Manual and the terms of the member’s particular Evidence of Coverage (EOC), the EOC always governs the determination of benefits.

**INDICATIONS FOR COVERAGE**
Pneumatic compression devices (PCD) are considered an appropriate treatment for refractory primary and secondary lymphedema, as well as Venous Stasis Ulcers:

Pneumatic compression pumps are only covered for purchase when the member has completed a successful trial. For the trial, the member must meet criteria: **A (1 and 2) or B.**

A. A 4 week trial rental will be covered for Primary and Secondary Lymphedema if:
   1. The member has undergone a four-week attempt of conservative therapy that must include use of an appropriate compression bandage system or compression garment, exercise, and elevation of the limb; and
   2. The treating physician determines that there has been no significant improvement or if significant symptoms remain after the conservative therapy; OR

B. A 4 week trial rental will be covered for Venous Stasis Ulcers if:
   1. The member has edema of the affected lower extremity, one or more venous stasis ulcer(s) which have failed to heal after a six-month trial
of conservative therapy including a compression bandage system or compression garment, appropriate dressings for the wound, exercise, and elevation of the limb.

C. Once the trials are completed, purchase is covered once the additional criteria below are met:

1. The four-week rental trial of the pneumatic compression device was accomplished, and
2. The patient can tolerate the device, and
3. In the provider’s opinion there has been an appropriate clinical response, and
4. The member can properly manage the device.

WHEN COVERAGE WILL NOT BE APPROVED
- For indications other than cited above.
- When the medical guidelines shown above are not met.
- Appliances used for pneumatic compression of the chest or trunk (E0656 and E0657) will be denied as not medically necessary.
- PCD E0675 used in the treatment of peripheral arterial disease is not reasonable and necessary and therefore not covered.

LIMITATIONS
The use of pneumatic compression devices is contraindicated in those individuals with active infection, metastatic disease or radiation for lymphadema. Contraindications for CVI include serious arterial insufficiency, edema due to congestive heart failure, phlebitis, deep vein thrombosis, or a localized wound infection or cellulitis.

BILLING/ CODING/PHYSICIAN DOCUMENTATION INFORMATION
This policy may apply to the following codes. Inclusion of a code in this section does not guarantee reimbursement.

Applicable codes: E0650, E0651, E0652, E0655, E0656, E0657, E0660, E0665, E0666, E0667, E0668, E0669, E0670, E0671, E0672, E0673, A6545

The Plan may request medical records for determination of medical necessity. When medical records are requested, letters of support and/or explanation are often useful, but are not sufficient documentation unless all specific information needed to make a medical necessity determination is included.
SPECIAL NOTES
Non-segmented Compression Devices
When a pneumatic compression device is covered, a non-segmented device (E0650) or segmented device without manual control of the pressure in each chamber (E0651) is generally sufficient to meet the clinical needs of the patient.

- A non-segmented compressor (E0650) with a segmented appliance/sleeve (E0671- E0673) is considered functionally equivalent to an E0651 compressor with a segmented appliance/sleeve (E0667-E0669).

Segmented Compression Devices
When a segmented device with manual control of the pressure in each chamber (E0652) is ordered and provided, payment will be based on the allowance for the least costly medically appropriate alternative, E0651, unless there is clear documentation of medical necessity in the individual case. (Examples may be significant skill scars or the presence of a contracture or pain caused by a clinical condition that requires more costly manual control.)

- Full coverage for code E0652 will be approved only when there is documentation that the individual has unique characteristics that prevent satisfactory pneumatic compression treatment using a non-segmented device (E0650) with a segmented appliance/sleeve (E0671-E0673) or a segmented device without manual control of the pressure in each chamber (E0651).

References:
1. Medicare National Coverage Determination for Pneumatic Compression Devices (280.6); Effective date: 1/14/2002; Accessed via http://www.cms.gov/ 12/1/15.
2. Medicare Local Coverage Determination for Pneumatic Compression Devices – CGS Administrators(L33829); Effective date: 10/01/2015, Revision Effective Date 12/1/2015; Accessed via http://www.cms.gov/ 12/1/15.

Policy Implementation/Update Information:
Revision Date: April 23, 2002; February 2004; June 9, 2004; June 28, 2006; February 20, 2008: Formatting and grammatical changes. No criteria changes made;
Revision Date: August 2012: changed policy title to from Lymphadema Pumps-Pneumatic Compression Devices to Pneumatic Compression Devices. Criteria added to differentiate between rental and purchase of the device.
Revision Date: August 20, 2014; Annual Review; Minor edits to mirror NCD and LCD.
Revision Date: December 16, 2015; updates to LCD L33829 – no major criteria changes, minor revisions to policy. Description of Procedure/Service – minor revision of definition to secondary lymphedema, added definition of Peripheral Artery Disease (PAD); Indication For Coverage – minor edit to item B1; When Coverage Will Not Be Approved – added reference to PCD E0675 used in treatment of PAD; Coding – added E0670 to policy.

Approval Dates:
Medical Coverage Policy Committee: December 16, 2015

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