Clinical Policy: Enhanced External Counterpulsation
Reference Number: CP.MP. 131
Effective Date: 2/17
Last Review Date: 2/16

See Important Reminder at the end of this policy for important regulatory and legal information.

Description
Enhanced external counterpulsation (EECP) is a nonpharmacologic technique used for the treatment of patients with chronic, stable angina not amenable to other medical and/or surgical therapies. A full course of therapy usually consists of 35 one-hour treatments, which may be offered once or twice daily, usually 5 days per week.

Policy/Criteria
I. It is the policy of Health Net of California that EECP is medically necessary for any of the following indications:
   A. Patients with disabling, chronic, stable angina (New York Heart Association Class III or IV angina) who are not amenable to or tolerant of medical treatment;
   B. Patients who, in the opinion of a cardiologist or cardiothoracic surgeon, are not appropriate candidates for surgical intervention due to one of the following:
      1. Patient’s condition is inoperable, or at high risk of operative complications or post-operative failure;
      2. Patient’s coronary anatomy is not readily amenable to such procedures; or
      3. Patient has co-morbid states which create excessive risk.

II. It is the policy of Health Net of California that a repeat course of EECP is medically necessary for patients who meet the criteria above and have relapsed after having previously demonstrated an objective response to EECP as evidenced by any of the following:
   A. Early improvement in radionuclide stress perfusion imaging compared to a pre-EECP baseline;
   B. Significant reduction or disappearance of angina symptoms;
   C. Reduction in antianginal medication use;
   D. Improvement in exercise tolerance.

III. It is the policy of Health Net of California that EECP is not medically necessary for any other conditions than those specified above.

Background
EECP involves sequential pneumatic compression of the legs coordinated with cardiac contractions. Cuffs are wrapped around the patient’s calves, thighs, and pelvis and, using compressed air, sequential pressure (up to 300 mmHg) is applied in early diastole to propel blood back to the heart. The goal of this procedure is to increase diastolic aortic blood pressure, improve venous blood return, and decrease afterload on the left ventricle, in patients with chronic angina pectoris, relieving pain and reducing impairment. External counterpulsation is the best studied of possible mechanical therapies to improve angina. 3, 4
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There have been a number of studies that have shown that EECP offers an effective, durable therapeutic approach for refractory angina. Decreased angina and improvement in quality of life were maintained at 2 years, with modest repeat EECP and low major cardiovascular event rates. The findings provide evidence that EECP has a beneficial effect on peripheral artery flow-mediated dilation and endothelial-derived vasoactive agents in patients with symptomatic chronic angina.\textsuperscript{1,4,5}

\textit{American College of Cardiology, American Heart Association, American Association for Thoracic Surgery, Society for Cardiovascular Angiography}

EECP may be considered for relief of refractory angina in patients with stable ischemic heart disease.\textsuperscript{2}

\textbf{Coding Implications}

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<tr>
<th>CPT\textsuperscript{®} Codes</th>
<th>Description</th>
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<tr>
<td>92971</td>
<td>Cardioassist-method of circulatory assist; external</td>
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<tr>
<th>HCPCS Codes</th>
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<tr>
<td>G0166</td>
<td>External Counterpulsation, per session</td>
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\textbf{ICD-10-CM Diagnosis Codes that Support Coverage Criteria}

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<td>I20.9</td>
<td>Angina pectoris, unspecified</td>
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\textbf{Reviews, Revisions, and Approvals}

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<tr>
<th>Policy Adopted from Health Net NMP#131. Enhanced External Counterpulsation</th>
<th>Date</th>
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References

Important Reminder
This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a
discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

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**Note: For Medicaid members**, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

**Note: For Medicare members**, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs and LCDs should be reviewed prior to applying the criteria set forth in this clinical policy. Refer to the CMS website at [http://www.cms.gov](http://www.cms.gov) for additional information.

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