SHP Electrical Bioimpedance AUTH: SHP Medical 118 v5 (AC)

Link to Codes

MCG Health Ambulatory Care 25th Edition

- Coverage
- · Application to Products
- Authorization Requirements
- · Description of Item or Service
- Exceptions and Limitations
- Clinical Indications for Procedure
- Document History
- Coding Information
- References
- Codes

Coverage

Return to top of SHP Electrical Bioimpedance - AC

See the appropriate benefit document for specific coverage determination. Member specific benefits take precedence over medical policy.

Application to Products

Return to top of SHP Electrical Bioimpedance - AC

Policy is applicable to all Plans

Optima Virginia Medicaid Plans pays 93701 Bioimpedance-derived physiologic cardiovascular analysis upon request.

Not covered for Optima Commercial Plans

Authorization Requirements

Return to top of SHP Electrical Bioimpedance - AC

Pre-certification by the Plan is required

Description of Item or Service

Return to top of SHP Electrical Bioimpedance - AC

Electrical bioimpedance is a noninvasive measurement tool designed to measure cardiac output. It uses electrical current to measure the opposition to the current's flow through tissues.

Exceptions and Limitations

Return to top of SHP Electrical Bioimpedance - AC

- There is insufficient scientific evidence to support the medical necessity of Thoracic Electrical Bioimpedance (TEB) for Optima Medicare Plans as it is not shown to improve health outcomes upon technology review for following:
 - · Individual with proven or suspected disease involving severe regurgitation of aorta
 - · Individual with minute ventilation sensor function pacemakers, as device may adversely affect functioning of this particular type of pacemaker
 - Use during cardiac bypass surgery
 - · Management of all forms of hypertension (with exception of particular cases of drug-resistant hypertension defined as failure to achieve goal blood
 - pressure in patients who are adhering to full doses of an appropriate 3-drug regimen that includes a diuretic)
 - Bioimpedance spectroscopy (BIS), extracellular fluid analysis for lymphedema assessment(s)
- There is insufficient scientific evidence to support the medical necessity of this service as it is not shown to improve health outcomes upon technology review for Optima Commercial Plans.
- For Optima Medicare, there is insufficient scientific evidence to support the medical necessity of electrical bioimpedance for uses other than those listed in the clinical indications for procedure section.

Clinical Indications for Procedure

Return to top of SHP Electrical Bioimpedance - AC

- · Electrical Bioimpedance is considered medically necessary for ALL of the following:
 - Individual has Optima Medicare Plan and indications of 1 or more of the following:
 - Differentiation of cardiogenic from pulmonary causes of acute dyspnea with ALL of the following:
 - · When physician history, physical examination, and standard assessment tools provide insufficient information
 - The treating physician has determined that electrical bioimpedance hemodynamic data are necessary for appropriate management of the individual
 - · Optimization of atrioventricular interval for individuals with an atrioventricular sequential cardiac pacemaker with ALL of the following:
 - When physician history, physical examination, and standard assessment tools provide insufficient information
 The treating physician has determined that electrical bioimpedance hemodynamic data are necessary for appropriate management of the individual
 - Monitoring of continuous inotropic therapy for individuals with terminal congestive heart failure with 1 or more of the following:
 Individual has chosen to die with comfort at home
 - Individual is waiting at home for a heart transplant
 - · Evaluation for rejection in individuals with a heart transplant as a predetermined alternative to a myocardial biopsy
 - Optimization of fluid management in individuals with congestive heart failure with ALL of the following:
 - When physician history, physical examination, and standard assessment tools provide insufficient information

- The treating physician has determined that electrical bioimpedance hemodynamic data are necessary for appropriate management of the individual
- · Electrical Bioimpedance is NOT COVERED for ANY of the following:
 - Individual with proven or suspected disease involving severe regurgitation of aorta
 - Individual with minute ventilation sensor function pacemakers, as device may adversely affect functioning of this particular type of pacemaker
 - Use during cardiac bypass surgery
 - · Management of all forms of hypertension (with exception of particular cases of drug-resistant hypertension defined as failure to achieve goal blood
 - pressure in patients who are adhering to full doses of an appropriate 3-drug regimen that includes a diuretic)
 - Bioimpedance spectroscopy (BIS), extracellular fluid analysis for lymphedema assessment(s)

Document History

Return to top of SHP Electrical Bioimpedance - AC

- · Revised Dates:
 - · 2022: September
 - 2021: November
 - 2020: November
 - 2015: March
 - 2013: March
 - 2012: March
 2010: March
- Reviewed Dates:
 - 2019: November
 - 2018: August
 - 2017: December
 - 2016: March
 - 2014: March
 2011: March
 - 2011: March
 2009: March
- Effective Date: March 2008

Coding Information

Return to top of SHP Electrical Bioimpedance - AC

- CPT/HCPCS codes covered if policy criteria is met for Optima Medicare only. Code pays upon request for Optima Virginia Medicaid Plans:
 - CPT 93701 Bioimpedance-derived physiologic cardiovascular analysis
- · CPT/HCPCS codes considered not medically necessary per this Policy for all Plans:
 - CPT 93702 Bioimpedance spectroscopy (BIS), extracellular fluid analysis for lymphedema assessment(s)
 - 0358T Bioelectrical impedance analysis whole body composition assessment, with interpretation and report

References

Return to top of SHP Electrical Bioimpedance - AC

References used include but are not limited to the following:

Specialty Association Guidelines; Government Regulations; Winifred S. Hayes, Inc; Uptodate; Literature Review; Specialty Advisors; National Coverage Determination (NCD); Local Coverage Determination (LCD).

2021 Update to the 2017 ACC Expert Consensus Decision Pathway for Optimization of Heart Failure Treatment: Answers to 10 Pivotal Issues About Heart Failure with Reduced Ejection Fraction. (2021, Feb). Retrieved Aug 22, 2022, from American College of Cardiology (ACC): https://www.jacc.org/doi/epdf/10.1016/j.jacc.2020.11.022

(2022). Retrieved Aug 22, 2022, from Literature Search: https://www.google.com/search? q=impedance+plethysmography+definition&safe=strict&rlz=1C1GCEA_enUS1019US1019&biw=1386&bih=708&ei=y58DY8xHfK3qtsPze2CuA8&oq=Impedance+plethysmography&gs_lcp=Cgdnd3Mtd2l6EAEYAjIFCAAQgAQyBQgAEIAEMgUIABCABDIFCAAQgAQyBQgAEIAEMgU

21CFR PART 870.2770 Impedance plethysmograph. (2022, Mar 29). Retrieved Aug 22, 2022, from FDA: https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm? fr=870.2770

Bioelectrical Impedance (Bioimpedance) Analysis for Assessment of Lymphedema. (22, Aug 18). Retrieved Aug 22, 2022, from Hayes 2: https://evidence.hayesinc.com/report/dir.bioelectrical1879

Electrical Bioimpedance For The Measurement Of Cardiac Output - ARCHIVED Nov 12, 2008. (n.d.). Retrieved Aug 22, 2022, from HAYES: https://evidence.hayesinc.com/report/dir.elec0006

Electrical Bioimpedance, Measurement of Cardiac Output (A-0400). (2022). Retrieved Aug 22, 2022, from MCG 26th Edition: https://careweb.careguidelines.com/ed26/index.html

National Coverage Determination (NCD) Cardiac Output Monitoring by Thoracic Electrical BIOIMPEDANCE (TEB) 20.16. (2006, Nov 24). Retrieved Aug 22, 2022, from Centers for Medicare and Medicaid Services: https://www.cms.gov/medicare-coverage-database/view/ncd.aspx? ncdid=267&ncdver=3&keyword=Bioimpedance&keywordType=starts&areald=all&docType=NCA,CAL,NCD,MEDCAC,TA,MCD,6,3,5,1,F,P&contractOption=all&sortBy=relevance&bc=1

Novel tools for hemodynamic monitoring in critically ill patients with shock. (2020, Sept 28). Retrieved Aug 22, 2022, from UpToDate: https://www.uptodate.com/contents/novel-tools-for-hemodynamic-monitoring-in-critically-ill-patients-with-shock?search=Electrical%

 $20 bioimpedance \& section Rank = 1 \& usage_type = default \& anchor = H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \# H1190957363 \& source = machine Learning \& selected Title = 1 \sim 10 \& display_rank = 1 \& source = 1 \&$

Procedure Fee Files & CPT Codes. (2022). Retrieved Aug 22, 2022, from Department of Medical Assistance Services: https://www.dmas.virginia.gov/for-providers/rates-and-rate-setting/procedure-fee-files-cpt-codes/

Codes

Return to top of SHP Electrical Bioimpedance - AC

CPT® : 93701, 93702

CPT copyright 2021 American Medical Association. All rights reserved.

MCG Health Ambulatory Care 25th Edition