BIOELECTRICAL IMPEDANCE ANALYSIS TO DETERMINE BODY COMPOSITION

Coverage for services, procedures, medical devices and drugs are dependent upon benefit eligibility as outlined in the member's specific benefit plan. This Medical Coverage Guideline must be read in its entirety to determine coverage eligibility, if any.

The section identified as “Description” defines or describes a service, procedure, medical device or drug and is in no way intended as a statement of medical necessity and/or coverage.

The section identified as “Criteria” defines criteria to determine whether a service, procedure, medical device or drug is considered medically necessary or experimental or investigational.

State or federal mandates, e.g., FEP program, may dictate that any drug, device or biological product approved by the U.S. Food and Drug Administration (FDA) may not be considered experimental or investigational and thus the drug, device or biological product may be assessed only on the basis of medical necessity.

Medical Coverage Guidelines are subject to change as new information becomes available.

For purposes of this Medical Coverage Guideline, the terms "experimental" and "investigational" are considered to be interchangeable.

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**Description:**

Bioelectrical impedance analysis or bioimpedance analysis (BIA) is a diagnostic tool that assesses complete "whole body composition". It has been investigated for the measurement and management of body fat in relation to lean body mass as well as cell membrane integrity, intra and extracellular water, energy expenditure, phase angle and other specific aspects of body composition.

Measurements of body composition have been used to study how lean body mass and body fat change during health and disease and have provided a research tool to study the metabolic effects of aging, obesity and various wasting conditions. Formulas are used to convert the measured parameter into an estimate of body composition.
BIOELECTRICAL IMPEDANCE ANALYSIS WHOLE BODY COMPOSITION (cont.)

Criteria:

- Bioelectrical impedance analysis to determine whole body composition is considered experimental or investigational based upon:
  1. Insufficient scientific evidence to permit conclusions concerning the effect on health outcomes, and
  2. Insufficient evidence to support improvement of the net health outcome, and
  3. Insufficient evidence to support improvement of the net health outcome as much as, or more than, established alternatives, and
  4. Insufficient evidence to support improvement outside the investigational setting.

Resources:


BIOELECTRICAL IMPEDANCE ANALYSIS WHOLE BODY COMPOSITION (cont.)

Resources: (cont.)


FDA 510K Summary for Body composition analyzers: Quantum II, Quantum III, Quantum IV, Quantum X and Quantum Desktop