Title: Total Body Plethysmography

Professional
Original Effective Date: July 16, 2009
Revision Date(s): December 8, 2010; March 25, 2011; January 1, 2012
Current Effective Date: July 16, 2009

Institutional
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DESCRIPTION
The use of body plethysmography, also known as air displacement plethysmography, is a technique that has been used for many years in the diagnosis and management of respiratory diseases. This technology has also been applied to the measurement of body composition. This method involves a patient entering a sealed container with a known volume of air. As the patient breathes through a tube connected to the air outside the device, the air displaced from the interior of the container is measured. This volume of air, in conjunction with body weight is used to calculate body composition.
POLICY
Total body plethysmography may be considered medically necessary as an adjunct to complete pulmonary function testing.

The determination of body composition by total body plethysmography is considered experimental / investigational.

RATIONALE
There are no controlled clinical trials published to date that demonstrate how the results of body composition studies by body plethysmography impact the ability to predict health risks, monitor medical therapies, or manage health conditions. This method has been proposed as a substitute for easier and less complex methods of clinical evaluation, such as a scale for evaluating obesity. While many methods have been demonstrated to be valid tools in the evaluation of body composition, the use of such tools has not been demonstrated to provide any benefit in terms of clinical outcomes compared to less complex methods.

CODING
The following codes for treatment and procedures applicable to this policy are included below for informational purposes. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

CPT/HCPCS
94726 Plethysmography for determination of lung volumes and, when performed, airway resistance
94728 Airway resistance by impulse oscillometry
94750 Pulmonary compliance study (eg, plethysmography, volume and pressure measurements)

DIAGNOSIS
135 Sarcoidosis
277.00-277.09 Cystic Fibrosis
480.0-480.9 Viral pneumonia
481 Pneumococcal pneumonia (Streptococcus pneumoniae pneumonia)
482.0-482.9 Other bacterial pneumonia
483.0-483.8 Pneumonia due to other specified organism
484.1-484.8 Pneumonia in infectious diseases classified elsewhere
485 Bronchopneumonia, organism unspecified
486 Pneumonia, organism unspecified
487.0-487.8 Influenza
488.01-488.09 Influenza due to identified avian influenza virus
490 Bronchitis, not specified as acute or chronic
491.0-491.9 Chronic bronchitis
492.0-492.8 Emphysema
493.00-493.92 Asthma
494.0-494.1 Bronchiectasis
495.0-495.9 Extrinsic allergic alveolitis
496 Chronic airway obstruction, not elsewhere classified
500 Coal workers' pneumoconiosis
501 Asbestosis
502 Pneumoconiosis due to other silica or silicates
503 Pneumoconiosis due to other inorganic dust
504 Pneumonopathy due to inhalation of other dust
505 Pneumoconiosis, unspecified
506.0-506.9 Respiratory conditions due to chemical fumes and vapors
507.0-507.8 Pneumonitis due to solids and liquids
508.0-508.9 Respiratory conditions due to other and unspecified external agents
510.0-510.9 Emphysema
511.0-511.9 Pleurisy
512.0-512.8 Pneumothorax
513.0-513.1 Abscess of lung and mediastinum
514 Pulmonary congestion and hypostasis
515 Postinflammatory pulmonary fibrosis
516.0-516.9 Other alveolar and parietoalveolar pneumonopathy
517.1-517.8 Lung involvement in conditions classified elsewhere
518.0-518.89 Other diseases of lung
519.0-519.9 Other diseases of respiratory system
786.05 Shortness of breath
786.09 Other dyspnea and respiratory abnormalities

**REVISIONS**

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<tr>
<th>Date</th>
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<tr>
<td>12-08-2010</td>
<td>Revised Diagnosis codes as follows:</td>
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<td>• 488 to 488.01-488.09</td>
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<td>03-25-2011</td>
<td>Added Diagnosis codes: 786.05 and 786.09</td>
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<td>Removed CPT codes: 93720, 93721, 93722, 94360</td>
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**REFERENCES**