Rhinomanometry

Prospective review is recommended/required. Please check the member agreement for preauthorization guidelines.

Prospective review is not required.

Description:

Rhinomanometry, acoustic rhinometry and optical rhinometry are techniques to objectively measure nasal patency. Several clinical applications are proposed including allergy testing, evaluation of obstructive sleep apnea and patient assessment prior to nasal surgery.

Nasal patency is a complex clinical issue that can involve mucosal, structural and psychological factors. The perception of nasal obstruction is subjective and does not always correlate with clinical examination of the nasal cavity, making it difficult to determine which therapy might be most likely to restore satisfactory nasal breathing. Therefore, procedures that objectively measure nasal patency have been sought. Three techniques that could potentially be useful in measuring nasal patency are as follows:

Rhinomanometry is a test of nasal function that measures air pressure and the rate of airflow in the nasal airway during respiration. These findings are used to calculate nasal airway resistance. Rhinomanometry is intended to be an objective quantification of nasal airway patency.

Acoustic rhinometry is a technique intended for assessment of the geometry of the nasal cavity and nasopharynx and for evaluating nasal obstruction. The technique is based on an analysis of sound waves reflected from the nasal cavities.

Optical rhinometry uses an emitter and a detector placed at opposite sides of the nose and can detect relative changes in nasal congestion by the change in transmitted light. This technique is based on the absorption of red/near-infrared light by hemoglobin and the endonasal swelling-associated increase in local blood volume.

Overall, the scientific evidence does not permit conclusions about the effect of rhinomanometry, acoustic rhinometry or optical rhinometry on health outcomes. To date, no studies have been published that evaluate the clinical utility of these tests. None of the studies identified have prospectively compared patient outcomes with and without the use of one or more of these tests for any clinical condition. Therefore, the technologies are considered not medically necessary as there is no proven efficacy.

Medical Criteria:
None
**Policy:**

**All Products:**

Rhinomanometry and acoustic/optical rhinometry are considered not medically necessary as there is insufficient peer-reviewed scientific literature that demonstrates that the procedure/service is effective.

**Coverage:**

Benefits may vary between groups/contracts. Please refer to the Evidence of Coverage or Subscriber Agreement for applicable "Services Not Medically Necessary" benefit.

**Coding:**

**All Products**

The following code is considered not medically necessary:

92512

Also known as:

None

Related topics:

None

**Published:**

Provider Update, Aug 2013
Provider Update, Aug 2012
Provider Update, Dec 2011
Provider Update, Mar 2011
Provider Update, Aug 2009
Provider Update, Sep 2008
Policy Update, Jul 2007
Policy Update, Jul 2006
Policy Update, Jan 2003

**References:**


Zambetti G, Filiaci F, Romeo R, Soldo P. "Assessment of Cottle’s areas through the application of a mathematical model deriving from acoustic rhinometry and rhinomanometric data." *Clinical Otolaryngology*; April 2005; 30; 2; 128-134.

**History:**
April 2013 - Annual Review

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