TITLE: UVULOPALATOPHARYNGOPLASTY (UPPP or U3P) FOR OBSTRUCTIVE SLEEP APNEA/HYPOPNEA SYNDROME

EFFECTIVE DATE: October 1, 2016

This policy was developed with input from specialists in otolaryngology, dental/oral surgery, neurology and pulmonology, and endorsed by the Medical Policy Committee.

IMPORTANT INFORMATION – PLEASE READ BEFORE USING THIS POLICY

These services may or may not be covered by all Medica plans. Please refer to the member’s plan document for specific coverage information. If there is a difference between this general information and the member’s plan document, the member’s plan document will be used to determine coverage. With respect to Medicare and Minnesota Health Care Programs, this policy will apply unless these programs require different coverage. Members may contact Medica Customer Service at the phone number listed on their member identification card to discuss their benefits more specifically. Providers with questions about this Medica utilization management policy may call the Medica Provider Service Center toll-free at 1-800-458-5512.

Medica utilization management policies are not medical advice. Members should consult with appropriate health care providers to obtain needed medical advice, care and treatment.

PURPOSE

To promote consistency between reviewers in utilization management decision-making by providing the criteria that generally determine the medical necessity of uvulopalatopharyngoplasty (UPPP or U3P). The Coverage Issues box below outlines the process for addressing the needs of individuals who do not meet these criteria.

BACKGROUND

I. Definitions

A. Apnea is a cessation of airflow for 90% or greater of baseline for 10 or more seconds.

B. Hypopnea as defined by the Centers for Medicare and Medicaid Services (CMS) is an abnormal respiratory event lasting at least 10 seconds with at least a 30 percent reduction in thoracoabdominal movement or airflow as compared to baseline, and with at least a 4 percent oxygen desaturation.

C. Apnea-Hypopnea Index (AHI) is calculated as the number of episodes of apnea plus hypopnea per hour of sleep.

D. Continuous Positive Airway Pressure (CPAP) Devices deliver air under continuous pressure through a nasal mask or face mask. This opens the airway and prevents collapse of the oropharynx that occurs during sleep by forming a pneumatic splint.

E. Obstructive Sleep Apnea/Hypopnea Syndrome (OSAHS). Epidemiologic data indicate that approximately two percent of women and four percent of men in the middle-aged work force meet the minimal diagnostic criteria for OSAHS.

1. The syndrome is confirmed by test results that indicate the following:
   a. AHI greater than or equal to 15 events per hour confirmed by polysomnography (PSG).
   b. AHI greater than or equal to 5 and less than or equal to 14 events per hour confirmed by PSG and accompanied by symptoms of OSAHS, which include unexplained excessive daytime sleepiness, mood disorders, insomnia; impaired cognition, or documented hypertension, ischemic heart disease, or history of stroke.

2. Severity of OSAHS is categorized as:
   a. Mild: AHI of 5 to 15 with a minimum oxygen saturation of 85% or greater and mean oxygen saturation remains at 90% or greater.
   b. Moderate: AHI of 16 to 30 with a minimum oxygen saturation of 70% or greater and mean oxygen that saturation remains at 90% or greater.
Uvulopalatopharyngoplasty (UPPP or U3P) for Obstructive Sleep Apnea/Hypopnea Syndrome

Medica Policy No. III-SUR.08

III. MEDICAL NECESSITY CRITERIA

The general treatment course for OSAHS includes a period of non-surgical, non-invasive therapy. Invasive or surgical treatment options are appropriate when a reasonable attempt at non-invasive treatment modalities has been ineffective.

I. Indications for uvulopalatopharyngoplasty (UPPP)

UPPP is considered medically necessary for members 18 years of age and older with a confirmed diagnosis of OSAHS, when documentation in the medical records indicates that all of the following are met:

A. BMI less than 40. (See APPENDIX 1 – Body Mass Index (BMI) Conversion Table)

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B. Documented history of failed CPAP after a trial of at least eight weeks OR the patient cannot tolerate CPAP. If the patient is unable to tolerate standard CPAP, alternative therapies such as flexible CPAP, various models of facial masks and nasal pillows should be tried prior to consideration of UPPP.

C. Polysomnography performed within the past 12 months that demonstrates one of the following:
   1. AHI between 16 and 30 and a mean oxygen saturation of less than 85 percent
   2. AHI values greater than 30 per hour.

D. Physical Examination
   The examination must demonstrate that the uvula, distal portion of the soft palate, posterior tonsillar pillars, and redundant lateral pharyngeal wall mucosa are the only areas of anatomical obstruction, determined through studies including but not limited to nasopharyngoscopy or cephalometry.

II. Written documentation from the medical record must include all of the following:
   A. A complete summary from the most recent facility-based PSG that includes the AHI along with the minimum and mean oxygen saturation
   B. A complete description of all trials of noninvasive medical treatments including the length and results of the trials. This should include a description of CPAP therapies tried, level of success achieved, and whether more than one CPAP modality was attempted.
   C. A complete description of the anticipated surgical treatment.

**COVERAGE ISSUES**

1. Prior authorization is required for uvulopalatopharyngoplasty.
2. Coverage may vary according to the terms of the member’s plan document.
3. For Medicare members, refer to the following, as applicable:
4. AHI values greater than 40 or retrolingual involvement require Medical Director review.
5. The following additional treatments (i.e., surgical, laser, etc.) in conjunction with UPPP require medical director review:
   A. Tracheostomy
   B. Rhinoplasty procedure with or without septoplasty
   C. Inferior mandibular sagittal osteotomy
   D. Geniohyoid advancement
   E. Genioglossus advancement
   F. Bimaxillar advancement
   G. Base of tongue resection
6. Pediatric obstructive sleep apnea syndrome (OSAS) and criteria for surgical interventions differ from those with adult OSAHS. All requests for surgical interventions used to treat OSAS in members younger than 18 years of age require medical director review.
7. Orthognathic surgery performed in conjunction with UPPP requires medical director review.
8. The following procedures are considered investigative and therefore are not eligible for coverage:
   - Nasal Expiratory Positive Airway Pressure (Provent®) for Obstructive Sleep Apnea
   - Palatal Implants for Obstructive Sleep Apnea
   - Tongue Base Suspension Procedures for Obstructive Sleep Apnea
   - Radiofrequency Volumetric Tissue Reduction (RFVTR) for Breathing Disorders,
   - Uvulopalatoplasty for Sleep Disorders (Including Radiofrequency Uvulopalatoplasty [UP2 or UPP] and Laser-Assisted Uvulopalatoplasty [LAUP])
   - Implanted Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea
9. If the Medical Necessity and Coverage Criteria are met, Medica staff will authorize benefits within the limits in the member’s plan document.
10. If it appears that the Medical Necessity and Coverage Criteria are not met, the individual’s case will be reviewed by the medical director or an external reviewer. Practitioners are reminded of the appeal process in their Medica Provider Administrative Manual.

**DOCUMENT HISTORY**

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Effective Date: October 1, 2016
Uvulopalatopharyngoplasty (UPPP or U3P) for Obstructive Sleep Apnea/Hypopnea Syndrome

Medica Policy No. III-SUR.08


Began use of MCG™ Care Guidelines

02/2016 (19th edition)

Administrative Update(s)

05/01/2017

References:

Pre-06/2016 MPC:


**MPC 2016:**


APPENDIX 1 – Body Mass Index (BMI) Conversion Table
## Body Mass Index Table

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