On-going care, including short and long term follow-up is an essential step in the treatment of snoring and Obstructive Sleep Apnea with Oral Appliance Therapy. Follow-up care serves to assess the treatment of your sleep disorder, the condition of your appliance, your physical response to your appliance and to ensure that it is comfortable and effective.

Advantages of Oral Appliance Therapy

Oral Appliance Therapy has several advantages over other forms of therapy:

• Oral appliances are comfortable and easy to wear. Most people find that it only takes a couple of weeks to become acclimated to wearing the appliance.
• Oral appliances are small and convenient making them easy to carry when traveling.
• Treatment with oral appliances is reversible and non-invasive.

American Academy of Dental Sleep Medicine

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Oral Appliance Therapy

Oral Appliance Therapy involves the selection, fitting, and use of a specially designed oral appliance worn during sleep that maintains an opened unobstructed airway in the throat. Oral appliances work in several ways:

- Repositioning the lower jaw, tongue, soft palate and uvula
- Stabilizing the lower jaw and tongue
- Increasing the muscle tone of the tongue

Dentists with training in oral appliance therapy are familiar with the various designs of appliances. They can determine which one is best suited for your specific needs. The dentist will work with your physician as part of the medical team in your diagnosis, treatment and on-going care. Determination of effective treatment can only be made by joint consultation of your dentist and physician. The initial evaluation phase of oral appliance therapy can take from several weeks to several months to complete. This includes examination, evaluation to determine the most appropriate oral appliance, fitting, maximizing adaptation of the appliance and the function.

Oral Appliances

Oral appliances that treat snoring and obstructive sleep apnea are small devices that are worn in the mouth, similar to orthodontic retainers or sports mouth guards. These appliances help prevent the collapse of the tongue and soft tissues in the back of the throat, keeping the airway open during sleep and promoting adequate air intake. Currently there are approximately 70 different oral appliances available. Oral appliances may be used alone or in combination with other means of treating OSA, including general health and weight management, surgery or CPAP.

Types of Oral Appliances

With so many different oral appliances available, selection of a specific appliance may appear somewhat overwhelming. Nearly all appliances fall into one of two categories. The diverse variety is simply a variation of a few major themes. Oral appliances can be classified by mode of action or design variation.

- **Tongue Retaining Appliances**
  - Function by holding the tongue in a forward position by means of a suction bulb. When the tongue is in a forward position it serves to keep the back of the tongue from collapsing during sleep and obstructing the airway in the throat.

- **Mandibular Repositioning Appliances**
  - Function to reposition and maintain the lower jaw (mandible) in a protruded position during sleep. This serves to open the airway by indirectly pulling the tongue forward, stimulating activity of the muscles in the tongue and making it more rigid. It also holds the lower jaw and other structures in a stable position to prevent opening of the mouth.

Standards of Care

In addition to lifestyle, such as good sleep hygiene, exercise and weight loss, there are three primary ways to treat snoring and OSA: CPAP, Oral Appliance Therapy and Surgery.

Oral appliance therapy is indicated for:

- Patients with primary snoring or mild OSA who do not respond to, or are not appropriate candidates for treatment with behavioral measures such as weight loss or sleep position change.
- Patients with moderate to severe OSA should have an initial trial of nasal CPAP, due to greater effectiveness than with the use of oral appliances.
- Patients with moderate to severe OSA who are intolerant of or refuse treatment with nasal CPAP. Oral appliances are also indicated for patients who refuse treatment or are not candidates for tonsillectomy and adenoidectomy, cranofacial operations or tracheostomy.

Snoring and Obstructive Sleep Apnea

Snoring is the sound of partially obstructed breathing during sleep. While snoring can be harmless, it can also be the sign of a more serious medical condition known as Obstructive Sleep Apnea (OSA). When Obstructive Sleep Apnea occurs, the tongue and soft palate collapse onto the back of the throat and completely block the airway which restricts the flow of oxygen. The condition known as Upper Airway Resistance Syndrome (UARS) is midway between primary snoring and true obstructive sleep apnea. People with UARS suffer many of the symptoms of OSA but require special sleep testing techniques.
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