

Features and Benefits

- Permits normal mouth opening
- Allows speech & drinking
- Unrestricted tongue space
- Full lip-seal
- Easily adjustable
- Safe & effective
- Clinically validated
- Custom-fitted



Effectiveness of SomnoDent®

The SomnoDent® sleep apnea appliance is a highly effective solution, for the majority of patients suffering from Obstructive Sleep Apnea. Its exceptional levels of patient acceptance and compliance as well as treatment efficacy are backed by a large body of clinical research which you can find on our website, somnomed.com.

Durability

The SomnoDent® is made from premium grade materials to ensure durability. The appliance is manufactured in an FDA registered facility under quality systems designed to meet FDA requirements. Each SomnoDent® will pass a quality check to ensure the patient is receiving a superior custom appliance.

The SomnoDent® comes with a three year warranty against manufacturing defects. Proper care and maintenance of your appliance should result in a long life of comfortable and effective use.

Customized SomnoDent®

The SomnoDent® is a custom-made appliance with a number of key features that are significant improvements on other oral appliances. Consisting of upper and lower dental plates with a unique patented fin-coupling component, the SomnoDent® permits normal mouth opening and closing. Our appliance also provides adjustable levels of lower jaw advancement. This improves the comfort and effectiveness of treatment, as the jaw is moved only as far as is required to treat Obstructive Sleep Apnea.

- ✓ Successful treatment of Obstructive Sleep Apnea
- ✓ Unrivaled patient acceptance and compliance
- ✓ Three year warranty



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SomnoMed®

Dental • Sleep • Medical



SomnoDent® MAS
DESIGNED FOR SLEEP | FLEX



SomnoDent® MAS
DESIGNED FOR SLEEP | EDENTULOUS



SomnoDent® MAS
DESIGNED FOR SLEEP | ACRYLIC

Patented
Clinically Proven
Compliant OSA Treatment

About SomnoMed

At SomnoMed we have dedicated ourselves to the understanding, identification and management of OSA. We are committed to:

- Increasing public, medical and dental awareness of OSA.
- Providing the highest level of education to the dental community and facilitating the implementation of dental sleep medicine into your practice.
- Manufacturing the best oral appliance available for the treatment of OSA.

We pride ourselves on our evidence-based approach to OSA treatment and the development of the SomnoDent®. In 2004, after 7 years of clinical research, SomnoMed was approved to commercialize its mandibular advancement splint, the SomnoDent®, as a clinically validated treatment of OSA. SomnoMed continues to conduct research and development projects to provide further clinical evidence, and to increase the efficacy of our sleep apnea appliance to better serve our patients, Dentists and Sleep Specialists. While we create potentially life-changing devices, it is the interdisciplinary treatment support network we foster which ensures patients are treated thoroughly, and in line with our evidence-based approach. Through these values we aim to provide reliable support to patients, Dentists and referring Sleep Specialists in our shared quest to alleviate the strain of OSA on the community.

SomnoMed Academy

The SomnoDent® is a medical device treating a deadly medical condition. SomnoMed has a commitment to patients, Dentists, and Sleep Specialists that every SomnoDent® is being fitted by a highly trained specialist. In order to successfully do this, SomnoMed has created curriculum and resources for Physicians, Dentists and Sleep Specialists to learn about Sleep Medicine - the SomnoMed Academy. The SomnoMed Academy combines current and new educational seminars and programs with educational institutions. Additionally, the SomnoMed Academy provides webinars, training materials, instructional DVD's and more.

SomnoDent® Therapy

The SomnoDent® is a Mandibular Advancement Splint (MAS) that treats mild, moderate and severe OSA by moving the lower jaw slightly forward. This movement tightens the soft tissue and muscles of the upper airway, which prevents obstruction while you sleep. The SomnoDent® also prevents the tissues of the upper airway from vibrating as air passes over them, which is the major cause of snoring.

The SomnoDent® is a custom made medical device that is comprised of upper and lower dental plates with a unique patented fin coupling component to maintain mandible protrusion. The fin coupling mechanism is a key differentiator from other oral devices as it enables the patient to maintain normal mouth opening and closing while wearing the SomnoDent®. Implementing a number of key design features which represent quantum improvements on existing MAS devices, the SomnoDent® is both more comfortable and effective.

1. Mehta A, et al: A Randomized, Controlled Study of a Mandibular Advancement Splints for Obstructive Sleep Apnoea. Am J Respir Crit Care Med 2001; 163: 1457- 1461
2. Chan A, Lee R, Cistulli PA. Oral Appliances for Obstructive Sleep Apnea [Review]. Chest (In Press). 2007 Aug; 132(2): 693-9
3. Rose E, University of Freiburg; Identifying the Ideal Oral Appliance Candidate (J.of Orofacial Orthopedics, 2004, 65, 6)
4. Zeng B; Ng AT; Qian J; Petocz P; Darendeliler MAS; Cistulli PA. Influence of nasal resistance on oral appliance treatment outcome in obstructive sleep apnea. SLEEP 2008;31 (4): 543-547
5. A Hoekema. Oral Appliance Therapy in Obstructive Sleep Apnea-Hypopnea Syndrome- A clinical study on therapeutic outcomes. PhD Thesis, University Medical Centre Groningen Department of Oral and Maxillofacial Surgery. pp. 110 (2007)
6. Walker-Engstrom ML, Tegelberg A, DDS, PhD; Wilhelmsson, MD, PhD; Ringqvist I: 4 year follow up of treatment with Dental Appliance or Uvulopalatopharyngoplasty in patients with Obstructive Sleep Apnoea. Chest. 2002; 121: pp 739-746

Clinical Research

- ✓ 96% of patients with proven OSA stated they would like to continue to use the SomnoDent®.¹
- ✓ 91% of patients reported substantial improvement in sleep quality with the SomnoDent®.¹

Over the last decade, there has been a significant increase in the evidence supporting the use of oral devices in the treatment of OSA. Studies demonstrating their efficacy have been underpinned by increasing recognition of the importance of upper airway anatomy in the pathophysiology of OSA². Oral devices have been shown to have a beneficial effect in targeting a number of significant clinical end points. These include the polysomnographic indexes of OSA, subjective and objective measures of sleepiness, blood pressure, aspects of neuropsychological functioning, and quality of life. A further study by Dr Edmund Rose, University of Freiburg 2004 successfully treated (AHI < 5) 88% of patients with MAS and proposes optimum patient selection to include AHI < 25, BMI < 30 and good dentition³.

Another study published in SLEEP 2008 on the Influence of nasal resistance (NAR) on oral device treatment outcome in OSA demonstrates the need for an interdisciplinary approach between ENT Surgeons and Sleep Physicians to treating OSA. The study suggests that higher levels of NAR may negatively affect outcome with MAS⁴ and subsequently methods to lower nasal resistance may improve the outcome of oral device treatment.

Longitudinal studies to characterise the long-term adverse effects of oral device use are now beginning to emerge². Although less efficacious than CPAP for improving the polysomnographic indexes of OSA, oral devices are generally preferred and better tolerated by patients. This has the potential to translate to improved patient compliance and may provide an equivalent health outcome to CPAP². Furthermore, a randomized parallel trial of 103 patients showed that an oral device was not inferior to CPAP for the effective treatment of OSAHS⁵.

In comparing the efficacy of oral devices to that of corrective upper airway surgery a four year randomized study published in the American College of Chest Physicians conducted at the Central Hospital, Vasteras Sweden concluded that there were significantly higher success and normalization rates in the dental device group, than with UPPP⁶. The study also showed that use of a dental device with regular follow ups can be recommended as a long term treatment for OSA sufferers⁶.

The SomnoDent® is a clinically validated treatment for Obstructive Sleep Apnea. Its exceptional levels of patient preference, tolerance, compliance and treatment efficacy are backed by clinical research conducted by leading researchers. A copy of these studies can be requested by calling SomnoMed at 1-888-447-6673 or through our website, www.somnomed.com.

Comfort of SomnoDent®

The SomnoDent® is comfortable and easy to wear. The appliance uses the smallest amount of material possible, reducing bulkiness in the mouth. It is made up of two separate pieces, which allow you to speak, yawn and drink. Our design does not restrict tongue space which results in high efficacy and comfort.

	SomnoDent® MAS	CPAP Therapy
Travels Well	X	
Free from Attachments	X	
Speak and Drink while in Use	X	
Makes NO Noise	X	
Requires Electricity		X
Cumbersome Head Gear		X
Consumable Parts to Replace		X
Limits on Sleep Positions		X

