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Product		 dreamTAP	 Adjustable TheraSnore	 OASYS with Nasal Dilators (Optional Tongue Repositioners)	 DynaFlex Dorsal	 aveoTSD
Website		www.tapintosleep.com	www.distar.com	www.dreamsystemsdentallab.com	www.dynaflex.com	www.glidewell dental.com
Warranty (days)		365 (for parts), 60-day satisfaction guarantee	365	365	365	180 (replacement if device defective)
INDICATIONS	Mild to Moderate OSA	X	X	X	X	X
	Snoring	X	X	X	X	X
	Bruxism			X		
TYPE	Custom	X	X	X	X	
	Noncustom					X
	Boil and Bite		X			
How Does the Oral Appliance Work?		The dreamTAP advances and stabilizes the jaw, preventing the tissues of the throat and tongue from collapsing into the airway. The dreamTAP is available with an optional compliance monitor chip.	The Adjustable TheraSnore is worn on the maxillary arch and gently holds the mandible in a protrusive position. The mandible has complete vertical and lateral freedom of movement, thereby eliminating any TMJ discomfort.	The device repositions the mandible, the nasal dilators improve nasal breathing, and the tongue buttons improve tongue position, plus a removable bracket can be added for combination therapy with CPAP.	The DynaFlex Dorsal is a mandibular advancement device. The forward advancement of the lower jaw helps to gain airway opening.	Unlike traditional mandibular advancement devices that indirectly move the tongue forward by moving the mandible, the aveoTSD gently suctions onto the tongue, preventing it from falling back into the throat and obstructing the airway.
Fitting Description		All TAP custom products empower patients to fine-tune treatment at home, as well as work with the clinician to achieve the best results. With a single point of midline adjustment, the dreamTAP prevents uneven bilateral adjustment that may create an irregular bite and jaw discomfort. Initial protrusion is set during the fitting process and is easily modified. Three different hook sizes allow for the greatest range of adjustment (15 mm) with minimal hardware. Posterior stops may be added for comfort.	Fabricated in the doctor's office in 45 minutes or less. Available in different arch sizes providing a more comfortable fit and adjustable with precise settings. Custom fit to each individual patient with minimal trimming for maximum patient comfort and immediate delivery.	The Oasys upper splint is placed. The lower splint with anterior shield is seated. If combination therapy is required, the appliance is retrofitted to include a removable bracket.	After receiving a set of PVS or good working models, a custom fitted Dorsal is fabricated exactly to the bite registration that is provided by the dentist to the lab. The appliance is returned to the sleep practice and delivered to the patient and adjusted by a qualified dental sleep clinician.	The aveoTSD is available in 3 sizes: small, medium, and large. The medium size fits 90% of individuals, though health professionals can purchase a patient sizing kit to properly choose a device for each patient.
Adjustment Description		Adjustment may be made by the patient with the appliance in the mouth in 1/3 mm increments. An anterior dial with one point of adjustment prevents unequal torque. The clinician teaches a home titration schedule, which engages the patient in the therapy process. The dreamTAP may also be easily adjusted in a sleep lab by the sleep tech during a study.	Easily adjusted by separating the halves of the appliance and following the number guide along the side of the appliance to the appropriate protrusion setting. Appliance is snapped back together at the desired setting via a locking mechanism.	The anterior shield is on a sliding/locking system, with mm guides. Pushing on the shield increases protrusion/pulling reduces. Finger adjustment is used for the nasal and lingual buttons.	The DynaFlex Dorsal has 6 mm of mandibular advancement built into the device. The adjustment ratio is 10:1, allowing for very precise forward movement of the lower jaw during titration of the device.	The aveoTSD is not adjustable.
Materials		Cobalt chromium hardware, the trays are made of a durable polymer and the inner lining is one of two types designated by the clinician. Triple Laminate is the most popular, using DuraSoft, which enables retention by comfortably gripping the teeth. ThermAcryl is the other option, which softens when heated to allow reshaping for patients who are having dental work.	Soft thermal plastic over-molded on a hard acrylic.	Upper: 1.5 mm/2 mm Vacuform splint; lower: ThermoFlex hard splint, with hard acrylic shield, onlays, and buttons; stainless steel wire, ball clasps, locks; Duraloy wire for the nasal dilators and tongue buttons, plastic bracket and medical-grade nasal CPAP mask.	Available in 3 different materials or liners: all acrylic with ball clasps, comfort fit (hard soft liner), and ACCU-FIT (thermacrylic liner).	Medical-grade silicone.
Recommended Cleaning		Clean thoroughly after each use with a regular soft toothbrush, mild soap, and cool water. Always rinse thoroughly and allow to air dry before storing in the container.	Brush appliance after each use to remove any debris and clean using Ortho Fresh Cold Water Cleaner.	Brush gently with soft toothbrush and anti-bacterial soap. Use non-alcohol denture cleaner for 15 minutes. Air dry.	The appliance should be cleaned with a soft toothbrush and a mild soap then stored during the day in hard storage case.	Rinse daily in hot water. Once a week, the aveoTSD should be given a thorough wash.
Peer-reviewed Study		Hoekema A, Stegenga B, et al. Obstructive sleep apnea therapy. <i>J Dent Res.</i> 2008;87(9):882-7.	Schmidt-Nowara W et al. Oral appliances for the treatment of snoring and obstructive sleep apnea. <i>Sleep.</i> 1995;18(6):501-10.	Not provided	Not provided	Not provided

Company		Great Lakes Orthodontics Ltd	Laboratory ONIRIS	Luco Hybrid OSA Appliance Inc	OravanOSA	Oventus Medical
Product		 Herbst Appliance	 ONIRIS	 The Luco Hybrid OSA Appliance	 Oravan Herbst	 O ₂ Vent W
Website		www.greatlakesortho.com	www.oniris-snoring.com	www.lucohybridosa.com	www.oravansosa.com	www.ventusmedical.com
Warranty (days)		90 (metal component); 730 (body material)	180	1,695	730	1,095 (titanium mouthguard); 365 (polymer inserts)
INDICATIONS	Mild to Moderate OSA	X	X	X	X	X
	Snoring	X	X	X	X	X
	Bruxism	X		X		
TYPE	Custom	X		X	X	X
	Noncustom					
	Boil and Bite	X (optional)	X			
How Does the Oral Appliance Work?		It works by repositioning and holding the mandible in a more protrusive position, thereby holding the tongue forward and airway open. The Herbst is a registered trademark of Dentaaurum Inc.	Oniris combines a simple custom-fitted tooth print, a vertical opening of the jaw not limited to a single position and an adjustment mechanism with a 1 mm accuracy. It opens the patient's airway through advancement of the mandible.	The only FDA cleared treatment of sleep apnea with concurrent sleep bruxism. Uses a patented forward bite to activate the masseter inhibitory reflex to treat sleep bruxism while managing OSA and UARS symptoms. FDA cleared under medical for sleep apnea and snoring and under dental for sleep bruxism and associated tension/migraine type headaches in adults.	The device opens the patient's airway through advancement of the mandible using an adjustable telescopic Herbst mechanism. Like the Oravan device, Oravan Herbst has a truly open anterior design, encouraging natural protrusion of the tongue and maximum patient comfort.	The O ₂ Vent W is slimline and uses an adjustable dual mechanism to stabilize jaw position and advance the mandible to reduce airway collapse, still enabling opening of the mouth. In addition, the unique airway design allows for breathing through the device to bypass obstructions in the nose, which can contribute to snoring and sleep apnea. The lips maintain an oral seal around the device extension.
Fitting Description		Very few adjustments are required. The standard hard acrylic snaps into place. When requested, retention clasps can be added.	Fitting takes less than 5 minutes. Submerge in boiled water for 2 minutes. Wait 15 seconds to cool off and place in patient's mouth to custom mold for 2 minutes.	Insertion is simple as there is no lingual acrylic to adjust, only 2 ball clasps per sextant. Insertions take minutes as there are only 2 contacts of occlusion with the forward bite.	The Oravan Herbst is custom fitted to each patient by a dentist who takes impressions and bite registration. As a result of the no anterior coverage, less clinical chair time is required, and the Oravan Herbst will not interfere with any anterior dental cosmetic work.	The O ₂ Vent W is custom fitted by a dentist following his/her taking impressions and bite registration. Dental models are scanned and the bespoke design is 3D printed in titanium. Customized polymer inserts are added to top and bottom pieces and sent to dentist for patient delivery.
Adjustment Description		Small increments using advancement shims, or up to 5 mm with a 1 mm retrusion using telescopic hardware.	Gradually increase the advancement of the lower section millimeter by millimeter, using easily interchangeable connecting rods. The rods come in 9 lengths and will not disengage or break even in the case of patients with bruxism.	Titration is by 2 orthodontic screws that are turned with a key (wire). Adjustable in 0.25 mm adjustments up to 6 mm.	The Oravan Herbst can be adjusted by inserting the key into the adjustment mechanism that is located on the anterior mandibular component of the device. Can be advanced in very small increments, up to 5 mm.	Adjustment is by way of a key on each side of the device with up to 6 mm total protrusion achievable in increments of 0.1 mm per turn of 90°.
Materials		Standard hard acrylic and soft version but can be made of Variflex, a thermo-active option, or can be made with optional Rhea design.	A soft inner liner, which maintains retention and offers premium patient comfort, in a hard plastic providing the dimensional stability and high lifetime.	Chrome cobalt, methyl methacrylate, stainless steel.	Acrylic.	Polished titanium (permanent 3D printed mouth guard); dental polymer laminate (customizable plastic models to fit teeth).
Recommended Cleaning		Use of DentaSOAK is recommended along with toothbrush and toothpaste daily. Must be stored dry.	Clean daily with soft toothbrush and toothpaste. Rinse with cold water.	Clean with liquid soap and a soft toothbrush.	Clean with cold water and a soft toothbrush every morning. If one wishes to use toothpaste to clean the Oravan Herbst, brush lightly and thoroughly rinse. Shake dry and store the device in its container until the next use.	Wash daily under running water. Twice a week use an ultrasonic cleaner in warm water with an effervescent cleaning tablet. Dry with a clean tissue or towel and store in box provided.
Peer-reviewed Study		Not provided	Marty M, Lacaze O, Arreto CD, Pierrisnard L, Bour F, Chéliout-Hérait F, Simonneau G. Snoring and obstructive sleep apnea: objective efficacy and impact of a chairside fabricated mandibular advancement device. <i>J Prosthodont</i> . 2017;26(5):381-6.	Not provided	Sutherland K, et al; on behalf of the ORANGE-Registry. Oral appliance treatment for obstructive sleep apnea: an update. <i>J Clin Sleep Med</i> . 2014;10(2):215-27.	Not provided

Company		ProSomnus Sleep Technologies		ResMed	SML-Space Maintainers Laboratories	SomnoMed	Whole You Inc
Product		 [IA] Sleep and Snore Device with Monogram Customization	 Micro ₂ Sleep and Snore Device	 Narval CC	 Lamberg-Sleep Well Appliance	 SomnoDent Fusion	 Respire Pink EF+
Website		www.prosomnus.com	www.prosomnus.com	www.resmed.com/narval	www.smlglobal.com	www.somnomed.com	www.wholeyou.com
Warranty (days)		1,095	1,095	1,095	1,095	1,095	365
INDICATIONS	Mild to Moderate OSA	X	X	X	X	X	X
	Snoring	X	X	X	X		X
	Bruxism				X		
TYPE	Custom	X	X	X	X	X	X
	Noncustom						
	Boil and Bite						
How Does the Oral Appliance Work?		ProSomnus [IA] utilizes vertically mated buccal posts to advance and hold the mandible forward to open the airway.	MicrO ₂ utilizes vertically mated buccal posts to advance and hold the mandible forward to open the airway.	Narval CC uses an optimized articulation method that maintains the mandible in an advanced position, opening the upper airway to enable effective treatment.	It advances the mandible by holding it in a protrusive position.	It advances the mandible to open the airway and hold the jaw in position.	The Respire Pink EF+ has a telescopic arm developed exclusively for Respire Pink devices that adjusts on a scale up to 7 mm. The DentiTrac chip for compliance monitoring can be added as an option.
Fitting Description		ProSomnus [IA] consists of a series of incrementally advanced full arches that are uniquely lingual-less and metal-free. Dentists must provide ProSomnus Sleep Technologies with patient impressions or digital scans along with a repositioning or neuromuscular bite registration and prescribed advancements. Dentists and patients alike experience easy and fast insertion due to the accuracy of the digital design and precision manufactured process.	MicrO ₂ consists of a series of incrementally advanced full arches that are uniquely lingual-less and metal-free. Dentists must provide ProSomnus Sleep Technologies with patient impressions or digital scans along with a repositioning or neuromuscular bite registration and prescribed advancements. Dentists and patients alike experience easy and fast insertion due to the accuracy of the digital design and precision manufactured process.	Narval is a computer-aided design and computer-aided manufacturing (CAD/CAM) MRD device, and each device is fitted specifically to the patient by their dentist. The dentist will take an impression—just like they would for any dental procedure—and will define the initial amount of protrusion required. The lateral flexibility allows patients to talk and drink while wearing the device.	The dentist seats the upper and lower appliance separately to determine: a snug and secure fit, patient comfort, and the ability of the patient to easily insert and remove the appliance. Adams clasps adjust to achieve optimal comfort and retention.	The patient will be fitted for the device by a qualified dental sleep professional. The dentist will make a model of the patient's teeth and take a protrusive bite registration.	Put the upper and lower trays together, place over the upper teeth, then guide the lower jaw into the lower tray.
Adjustment Description		Adjustments are accomplished by simply removing an arch and inserting the next arch in the series of advancement arches. Combinations of different arches add up to a new titration increment. No screws, mechanisms, or elastics required.	Adjustments are accomplished by simply removing an arch and inserting the next arch in the series of advancement arches. Combinations of different arches add up to a new titration increment. No screws, mechanisms, or elastics required.	If patients are still experiencing symptoms at first follow-up, the dentist will adjust fit by replacing the flexible, non-metal connecting rods to adjust fit. Narval CC is easy to titrate and highly adjustable with connecting rods that allow for 15 mm of protrusive range at 0.5 mm increments.	Each patient receives his/her own box of inserts, which includes a sequence of numbered protrusive elements that advance the mandible in 0.5 mm increments. The patient simply pops out the insert on the upper member and replaces it with the following insert in the numbered sequence.	The SomnoDent Fusion is advanced in 1 mm increments by changing the wings on the lower device or more precisely by adjusting the screw in 0.1 mm increments using the screw on the top device. The SomnoDent Fusion offers a custom 8.5 mm range of calibration, reducing the need for device resets.	The new hinge on the Respire Pink EF+ adjusts using a key that is turned 1 full rotation to advance the jaw 0.25 mm. The advancement markings enable precise adjustments using a clear numbered scale.
Materials		Pre-polymerized, milled polymethylmethacrylate (PMMA).	Pre-polymerized, milled polymethylmethacrylate (PMMA).	A flexible, lightweight polymer that is CAD/CAM custom-made.	Special SML brand sleep appliance acrylic.	Acrylic.	Acrylic and chrome.
Recommended Cleaning		Clean daily using a regular soft toothbrush, cool or warm water, and mild detergent such as orthodontic device cleaners. Never use toothpaste to clean. Do not soak. Store in dry container.	Clean daily using a regular soft toothbrush, cool or warm water, and mild detergent such as orthodontic device cleaners. Never use toothpaste to clean. Do not soak. Store in dry container.	Daily cleaning recommended. Rinse in lukewarm water; clean with a soft, clean toothbrush. (Do not use the same toothbrush used to brush teeth, as toothpaste can damage the device.) Rinse in lukewarm water, and dry with a clean paper towel before putting it back in storage box.	Clean once daily with OAP anti-microbial dental appliance cleaner.	Clean the device every morning after removing it from the mouth using a soft toothbrush, but never use toothpaste as it contains abrasives. SomnoMed recommends using SomTabs for daily cleaning.	Upon removal the device should be rinsed and cleaned with soap and water, using a soft brush.
Peer-reviewed Study		Hu J, Kuhns D, Kim S, Liptak L, Sheppard L. Case Report: The Micro ₂ Sleep Device. <i>Dental Sleep Practice</i> . Summer 2015:24-7.	Hu J, Kuhns D, Kim S, Liptak L, Sheppard L. Case Report: The Micro ₂ Sleep Device. <i>Dental Sleep Practice</i> . Summer 2015:24-7.	Vecchierini MF, Attali V, Collet JM, et al. A custom-made mandibular repositioning device for obstructive sleep apnoea-hypopnoea syndrome: the ORCADES study. <i>Sleep Med</i> . 2016;19:131-40.	Not provided	SomnoMed SomnoDent Fusion Obstructive Sleep Apnea Device. <i>Dental Product Shopper</i> . 2015;9(6):72-3.	Not provided