



About Oventus

Oventus is an Australian medical device company with a proprietary technology for the treatment of *obstructive sleep apnea (OSA)*. Our focus is on treating those patients that are not being, or cannot be treated effectively with existing treatment modalities.

OSA is a massive, multibillion dollar and fast growing market

There is a huge unmet need many times the size of the existing market due to the abandonment of existing treatments by the majority of patients

Oventus has a clinically proven ability to deliver superior outcomes for more than 80% of these patients with the first products in its treatment platform currently launching in the US with FDA clearance and existing reimbursement codes

Platform technology developed and company founded in 2013 by CEO, Dr Chris Hart B.Sc. B.D.Sc (Hons) M.Phil (Cantab), Oventus is listed on the Australian Securities Exchange (ASX:OVN)



Disclaimer

- 1. The information in this presentation does not constitute personal investment advice. The presentation is not intended to be comprehensive or provide all information required by investors to make an informed decision on any investment in Oventus Medical Limited ACN 608 393 282 (Company). In preparing this presentation, the Company did not take into account the investment objectives, financial situation and particular needs of any particular investor.
- 2. Further advice should be obtained from a professional investment adviser before taking any action on any information dealt with in the presentation. Those acting upon any information without advice do so entirely at their own risk.
- 3. Whilst this presentation is based on information from sources which are considered reliable, no representation or warranty, express or implied, is made or given by or on behalf of the Company, any of its directors, or any other person about the accuracy, completeness or fairness of the information or opinions contained in this presentation. No responsibility or liability is accepted by any of them for that information or those opinions or for any errors, omissions, misstatements (negligent or otherwise) or for any communication written or otherwise, contained or referred to in this presentation.
- 4. Neither the Company nor any of its directors, officers, employees, advisers, associated persons or subsidiaries are liable for any direct, indirect or consequential loss or damage suffered by any person as a result of relying upon any statement in this presentation or any document supplied with this presentation, or by any future communications in connection with those documents and all of those losses and damages are expressly disclaimed.
- 5. Any opinions expressed reflect the Company's position at the date of this presentation and are subject to change.





Obstructive Sleep Apnea (OSA)

What is Sleep Apnea?

How is it treated today?

What is the market size?

What could it be with Oventus in market?



What is OSA?

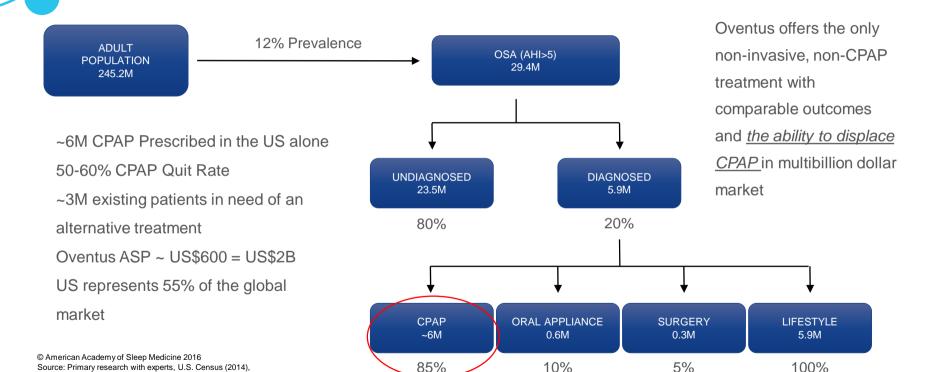
- Obstructive sleep apnea (OSA) is the most common type of 'sleep apnea'
- OSA is the absence of breathing that occurs during sleep that results in disruptive sleep that compromises daytime functions leading to excessive sleepiness, memory impairment, depression and a host of comorbidities, ie. Hypertension, heart disease, stroke and diabetes etc.
- Occurs when there is obstruction or collapse of the nose, soft palate and lateral walls of the airway.







US epidemiology/prevalence – US\$2B opportunity for Oventus



Predicted market growth 16% by 2025

Adults." American Journal of Epidemiology (2013)

Peppard "Increased Prevalence of Sleep-disordered Breathing in



Commonly reported limitations of current standard of care – Continuous Positive Air Pressure (CPAP)



- Discomfort due to mask and straps: facial abrasion, strap marks, claustrophobia and general discomfort
- Pressure intolerance and device noise.
- Limits freedom of movement with the power cords and mask hose.
- \$ Cleaning, maintenance and resupply.



Under-reported: role of the nose in CPAP intolerance

"The importance of the nose to successful use of CPAP cannot be overstated." – Dr. Jerrold A. Kram, MD, FCCP, FAASM

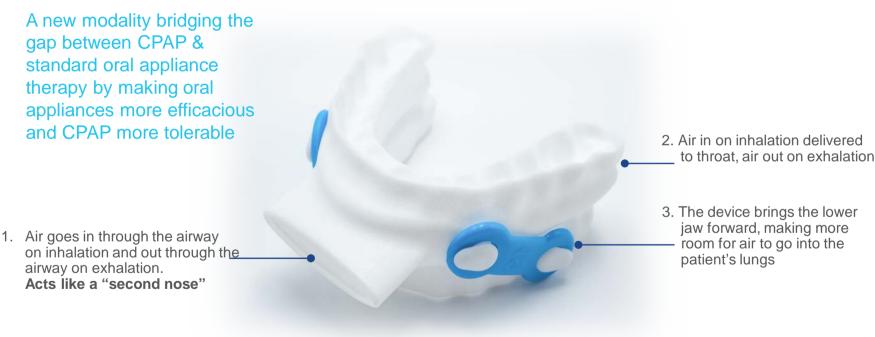
- The <u>increase in nasal airway resistance</u> can lead to mouth breathing.¹ Mouth breathing leads to CPAP intolerance.
- Examples of Nasal Obstruction (79% self-reported):
 - Allergies
 - Congestion
 - Deviated septum
 - Anatomical features



¹ McNicholas WT. The nose and OSA: variable nasal obstruction may be more important in pathophysiology than fixed obstruction. Eur Respir J. 2008 Jul;32(1):3-8.



O₂Vent Airway Technology - Allowing air to flow to where its needed instead of pumping it in through a hose and mask





Over 170 patients studied across four clinical studies

Clinical data presented so far shows that:

- Patients with nasal obstruction who would normally struggle with treatment displayed a clinically and statistically significant benefit owing to Oventus' O₂ Vent airway technology (p<0.05)
- Patients that had failed prior lines of therapy were shown to have benefit from Oventus airway technology
 - 20% decrease in residual events (p<0.05)
 - 20% increase in success rate
 - 40% increase in response rate
- Addition of the Oventus PEEP (positive end expiratory pressure) valve technology to the O₂Vent airway delivered a
 - 30% (p<0.01) increase in efficacy for ExVent and
 - 50% (P<0.01) increase in efficacy for ONEPAP
- Oventus airway technology improved treatment outcomes for CPAP users by reducing pressure requirements by 40-50% (p<0.001) and eliminating the need for full face masks



Clinical results lead to value-driving product innovation

During 2018, clinical work undertaken through the Federal Government-funded CRC-P, 'NeuRA trial' led to three significant discoveries in the area of sleep medicine:

- The ExVent[™] valve inserting this valve into the 'duck bill' of Oventus' O₂Vent[™] device improves efficacy for those patients who need more intervention
- The O₂Vent ONEPAP™ valve clips into the 'duck bill' of Oventus' O₂Vent™ device and acts as a mini CPAP valve without the need for cords or power
- 3. The O₂Vent Connect™ CPAP connection will connect the Oventus O₂Vent™ device to CPAP, enabling CPAP to be delivered at lower pressures, without the need for a full face mask

These unexpected product discoveries, Oventus' ExVent valve, OnePAP and O2Vent Connect, represent the most significant improvements in sleep medicine <u>in over</u> <u>several decades</u>.

Oventus personalised Sleep Treatment Platform

..set to deliver treatment to **all types** of OSA patients, **potentially displacing the need for CPAP**



ExVentTM valve Expected to be released Q2CY19

Outstanding clinical success reported in a variety of forums



^{*}AHI Reduction to less than 10 events per hour

¹ McCloy K, Lavery D, Moldavtsev J, Airway open-airway closed: The effect of mandibular advancement therapy for obstructive sleep apnoea with and without a novel in-built airway. Abstract Submitted ASA Brisbane 2018. ² Lai V, Tong B, Tran C, Ricciardiello A, Donegan M, Murray N, Carberry J and Eckert D, Combination therapy with mandibular advancement and expiratory positive airway pressure valves reduces OSA severity. Abstract Submitted ASA Brisbane 2018. ³ Tong B, Tran C, Ricciardiello A, Donegan M, Murray N, Chiang A, Szollosi I, Amatoury A and Eckert D. Combination therapy with CPAP plus MAS reduces CPAP therapeutic requirements in incomplete MAS responders. Abstract submitted ASA Brisbane 2018.



O₂ Vent Optima Launch

- Optima is the new lightweight, nylon version of the O2 Vent oral device
- Easier to manufacture and has a lower cost of goods
- Successful controlled market release occurred in Australia and Canada during December and January 2018
- Hard launch occurred in Australia during January 2019 in conjunction with a <u>national media campaign</u>
- Launched in Canada during February 2019
- Early feedback has been exceptional
- US launch mid year 2019 (subject to FDA Clearance)



O2Vent® Optima







89% of patients found O2Vent® Optima easy to clean and maintain at home



94% of patients indicated they would continue using their O2Vent® Optima device (based on fit, comfort and treating their OSA).



72% of patients feel
confident or very confident
in their ability to use O2Vent®
Optima on a regular basis.
Self-efficacy is crucial for
treatment success.



80% or 8/10 patients chose O2Vent® Optima over their current oral appliance.

77% of patients achieved a reduced Epworth Sleepiness Scale score after using O2Vent® Optima.

* (n=22)

US Medical Technology Advisory Board



Dr. Lee A. Surkin, MD, FAASM Chief Medical Officer of N3Sleep



Dr. Mark A. Rasmus, MD, FAASM Medical Director, Idaho Sleep Health



Dr. Richard K. Bogan, MD, FCCP, FAASMAssociate Clinical Professor at the University of South Carolina School of Medicine in Columbia, SC and Medical University of SC in Charleston, SC



Daniel B. Brown, Esq.
Partner, Healthcare and Corporate Practice
Groups, Taylor English Duma LLP Atlanta,
Georgia



Jerrold A. Kram, MD, FCCP, FAASM Medical Director of the California Centre for Sleep Disorders



Myra G. Brown
President, MbrownGroup LLC



Dr. Mark Hickey, MD, FAASMFounder, Colorado Sleep Institute





Robin Randolph
VP Marketing and Operations, North America
Marketing & Sales executive 30+ years Sleep Industry.
In-depth North America medical device
commercialization experience. Former Dir. Sleep
Initiatives and National Accounts- ResMed, Manager—
Fisher & Paykel Healthcare NA Marketing



VP Operations, North America
15+ years leadership experience in upstream and downstream marketing of medical devices in sleep apnea, COPD, and dental Restoratives products. Former Sr. Marketing Manager – KaVo Kerr



Phillip Miller
Leader Information Technology
Proven leadership 20+ years information technology
systems and services across a range of industries and
markets. Former VP Data & Communications - ResMed



Robyn Woidtke, MSN-Ed, RN, BSHS, R.PSGT Director of Regulatory and Clinical Affairs With a sleep medicine career spanning 30 years and extensive experience in the medical device industry. Former Director of Clinical Affairs - ResMed



Peggy Powers Manager Clinical Education

20+ years clinical educator and authority in the sleep & respiratory industry. Registered Respiratory Therapist. Former Manager Clinical Education – ResMed, former Clinical Educator – Fisher & Paykel Healthcare



Brian Ueda Marketing Operations Manager

10+ years marketing career with extensive marketing operations and digital marketing experience in the medical device industry. Former Digital Marketing Manger – Fisher & Paykel Healthcare



Linda Appiah-Dimanche Customer Care Coordinator

10+ years growing and implementing customer service teams while providing outstanding customer experience.

Masoud Vahidi

US Commercial Strategy Consists of Four Sales Channels

1. Create hybrid ecosystem of dental/sleep practices

Partnering with largest sleep providers in the US. Implementing collaborative clinical models & product distribution

Dentists work under sleep physicians so more revenues and improved gross margins generated for providers and Oventus

2. Dental Organizations

Partnering with major dental/medical distributors who are aligned with a number of Dental Networks



3. Direct To Consumer

App launched to funnel failed and struggling CPAP patients to sleep and dental partners. Launched Q2 CY2019

4. Veterans Administration

Identified major distributor with Federal Supply Schedule



Traditional US patient referral pathway

The "silo-ing" of dentists and sleep physicians makes the patient journey complex and creates conflicting economic imperatives

- Patients present to their family doctor with symptoms
- They are referred to a sleep physician
- A sleep test is performed in a lab or at home
- They return for a follow-up consultation with a sleep physician
- They are referred to a durable medical equipment supplier or CPAP reseller for a CPAP trial
- 35% of patients refuse a CPAP trial

- 20% of CPAP trial patients will not move forward with a CPAP
- 50% of the patients that move forward with CPAP abandon treatment within the first year
- The patient returns to the sleep physician or GP requesting a prescription for an oral appliance
- Patient returns to the dentist for fitting of an oral appliance
- Patient should be referred back to the sleep physician for follow up

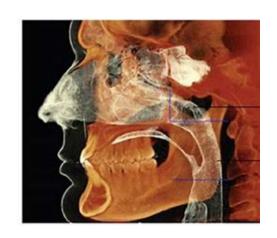


Oventus' 'lab in lab' model is designed to overcome these issues: launching July 2019

Designed specifically for sleep groups

The Dental Sleep 'Lab in Lab' program is comprehensive and assists sleep groups in maximising patient outcomes by providing the systems, support, training and resources required to run a professional Dental Sleep Medicine clinic, utilising Oventus' proprietary airway technology and digital workflow







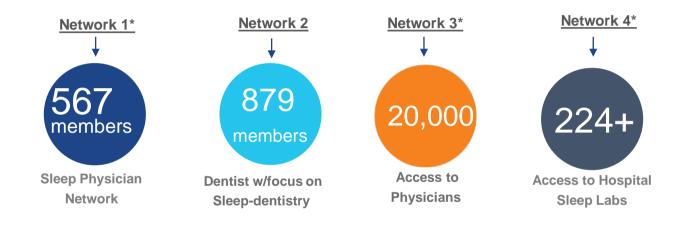
'Lab in lab' model

Bringing dentists and sleep physicians together, improving patient outcomes and creating value for all stakeholders

- Historically dentists have attempted to manage OSA in their clinics although they are not licensed to do so
- Sleep physicians have been frustrated by dentists treating patients for OSA outside their scope of practice
- Oventus' solution is to enable dentists to practice within the sleep lab setting under the clinical supervision of the sleep physician
- This has been called the 'lab in lab' model, and creates a new sub-specialty of sleepdentists working out of sleep labs
- This 'lab in lab' model can increase revenue and profit for both the dentist and sleep groups and improve clinical outcomes for patients
- Oventus' treatment platform and digital workflow is unique in its ability to facilitate this level of collaboration
- Patients will be able to find providers where these collaborations can be accessed AwakeXpress.com



Partnering With Major US Sleep Networks for Launch of O2Vent Optima*



^{*}Subject to 510k clearance - expected mid CY2019



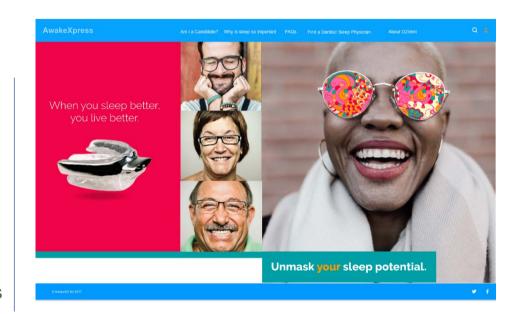
Patient interaction through AwakeXpress.com

Through the AwakeXpress website, we're reaching out directly to failed and struggling CPAP users to educate them on a new alternative to treatment.

The intolerance to CPAP is not their fault and may be related to several common factors underscored by under-reported nasal conditions.

Site features:

- Provider locator map in all markets where O₂ Vent is available (Australia and North America)
- Appointment scheduling
- Vouchers and promotions





How does AwakeXpress help patients manage their OSA?

Helping patients understand how to access alternate therapies to CPAP

Through AwakeXpress.com patients can learn why an O₂Vent might be the solution they are looking for and

- Then be guided through one of three pathways:
 - They have been diagnosed and are not using CPAP → Dentist
 - They have been diagnosed but would like a second treatment option → Dentist or sleep facility with 'lab in lab' set up
 - They have not been diagnosed → Sleep Physician / Sleep Clinic
- The appropriate referral can then be made online and the patient supported through their patient journey towards optimal treatment



Market and outlook

- Current device market for the treatment of OSA is US\$4.4B of which 10% are oral appliances
- Total device market forecast to grow at 7.5% CAGR (historical growth rates of 15-20% CAGR)
- Oral appliance segment forecast to grow at 25% CAGR
- Growth in acceptance of oral appliances by healthcare providers 80% of patients yet to be offered treatment
- Oventus' increased efficacy of oral appliances to CPAP-like levels set to increase the adoption of oral appliance therapy
- Oventus' 'lab in lab' model is set to penetrate the CPAP failure market



Why now for Oventus?

- Oventus technology is clinically validated as the most effective oral appliance with treatment outcomes comparable to CPAP.
- The 'lab in lab' business model is set to accelerate adoption of Oventus' Sleep Treatment Platform and sales revenue in the second half of calendar 2019
- 'Lab in lab' contracts with minimum quotas signed / announced in June
- And with a significant additional pipeline of agreements, Oventus is well positioned for significant revenue growth through to the end of CY2019 and well in to CY2020

Intellectual Property Compliance Valve Integrated 3D printing For people Jaw positioning **CPAP** Airway and airflow airway and bite Arrangement technology with jaw pain adjustment design connector sensors **Breathing** Provisional Titratable Airway PAP Design and Compliance and Provisional Assist Device Platform design with application for connectors to additive airflow sensors applications for with Tonque an airway an integrated the Oventus valve manufacturing Retaining allows lower device airwav arrangements Device iaw for airflow adjustment by control the patient PCT/AU2019/05 PCT/AU2019/05 AU2012255625 AU2015240431 AU2016303791 AU2017243874 PCT/AU2017/051092 PCT/AU2017/051316 0402 0223 AU2017228641 CA2994175 CA3039830 EP2709572 CA3016209 JP2019-518265 CA2944525 CN2016800575152 CN201780022113.3 US10010444 AU2018903930 KR10-2019-7012830 EP16831973.9 CN206880919 US16/003.558 CN2015800269491 US15/300865 EP15773894.9 JP2018-505470 CN201721839219.6 NZ739363 JP2016-560790 EP17772876.3 KR10-2016-7028505 US15/750023 JP2018-545631 US15/300865 KR10-2018-7026715 NZ745767 US16/089084





Trademarks advancing according to Madrid protocol



Board of Directors and Management



Dr Mel Bridges Non-executive Chairman

Extensive experience as an Executive and Company Director in healthcare, agricultural technology, drug development, pathology, diagnostics and medical devices.

Has successfully raised in excess of \$300M investment capital in the healthcare/biotech sector and been directly involved in over \$1B in merger and acquisition and related transactions.



Experienced dentist with extensive business experience.

Heads up clinician engagement for the delivery of the Oventus appliances. Inventor of the core design.

©2019 OVENTUS PTY LTD. ALL RIGHTS RESERVED

Ms Sue MacLeman Non-executive Director

Very broad commercial experience in multiple companies currently Chair of the Medical Technology and Pharmaceutical Industry Innovation Growth Centre.

Underpinned by graduate qualifications in pharmacy and post graduate qualifications in corporate governance, commercial law, business administration and marketing.

Mr Neil Anderson **Chief Technology Officer**

Experienced CEO, project manager, materials scientist and entrepreneur. In-depth skills and knowledge of medical device commercialisation - in the field for over 30 years.

Has managed the R&D, manufacturing process and regulatory.





Boston based. Active in the medical technology industry for over 30 years, held senior positions for the past 10 years including global entrepreneurial medical devices CEO with experience in launching medical devices.

Holds qualifications in mechanical engineering in the biomedical space and also holds an MBA

Mr Steve Denaro **Company Secretary**



Bachelor of Business in Accountancy, Graduate Diploma in Applied Corporate Governance and is a member of the Institute of Chartered Accountants in 8 Australia & New Zealand.



Finances	Details	Shareholders	
Cash on hand 31 March 2019	\$5,100,000	Dr Chris Hart	25%
Revenue FYTD2019 (Up to 31 March 2019)	\$241,000	Other founders	11%
		Other top 20 shareholders	30%
		Remaining 985 shareholders	34%
Capital Structure	Details		
Shares on Issue	105.9 m		
Options	4.45 m		
Price (21 June 2019)	\$0.21		
Market Cap (21 June 2019)	\$21.705 m		



Oventus Airway Technology

This is what our patients say about comfort when compared to a traditional oral device

"Due to my new Oventus device I have found that I am sleeping far better. Previously I had a sleep apnea machine with a long hose and a nose piece. I was constantly battling with the hose because I felt like it was always pulling on my head. I was waking most mornings with a dry mouth and bloated stomach from the machine forcing air. I travel often and found it challenging to bring my machine with me. These things are no longer an issue thanks to my new Oventus device."

Blake Schampers

"I use the Oventus device consistently now – and it has been wonderful, especially when visiting friends and family – no packing an extension cord to make sure the CPAP machine can be easily connected to power – and less luggage to carry.

The most significant advantage has been when travelling overseas – with my device in a tiny container in my handbag, I can sleep very comfortably on the plane knowing that I'm irritating my fellow travellers by snoring, and arrive feeling refreshed and ready for action immediately on arrival."

Jill Agnew

"The Oventus device allowed me to sleep in a normal manner without my sleep being interrupted by leaking and ill fitting masks. The Oventus device is also so much more easily mobile than machines and masks especially when travelling."

David Nicoll



Be a part of unmasking the sleep industry's true potential!





Dr Chris Hart Founder & CEO chris@oventus.com.au

+61 409 647 496



SLEEP BETTER.

LIVE BETTER.



Addendum

Appliance validation - O₂Vent (Oventus Airway Technology)

Clinical trials to validate Oventus 'airway technology' and assist marketing

Name	Study/ Investigation	Patients completed (per Nov 2018)	Results - reduction in A (sleep events per hour)		Events
Sydney study (NeuRa) OVEN-005 CRC-P funded (\$2.95m) 3 stages over 3 years 180 Patients in Total	Pilot study	4	37 reduced to 8 = 78% reduction	In addition to AHI reduction, 66% reduction in CPAP pressure required when using Oventus CPAP connector	Presented at AADSM/AASM Sleep 2017 in Boston
			Airway Technology increased efficacy by 50% cf Traditional oral appliance		
	Nasal Resistance Study	7	34.4 reduced to 7.0 = 80% reduction	Increased nasal resistance did not impact treatment outcomes	Interim results presented at Prague, World Sleep Congress (abstract) 9-12 October 201
		39	29 reduced down to 14.5 = 50% reduction		Expanded results presented at European Respiratory Society in Paris September 2018
	PEEP Valve Study	22	21.6 reduced to 7.2 67% reduction In previous treatment failures	Success rates increased by 59% enabling over 75% of patients to be treated successfully without CPAP	Final results being presented at the ASA Sleep DownUnder Oct 2018
	MAS Combo Study	16	CPAP Pressure requirements reduced by 35-40%	Patients able to breathe through the device while using nCPAP eliminating the need for full face masks	Interim results presented at European Respiratory Society in Paris September 2018 Expanded results presented at ASA Sleep DownUnder Oct 2018

^{*} Apnoea-Hypopnoea Index (AHI), known as 'sleep events' per hour occurring when the breathing airway collapses temporarily, leading to disruptions in breathing and sleep, in patients with Obstructive Sleep Apnoea (OSA)

Appliance validation - O₂Vent (Oventus Airway Technology)

Clinical trials to validate Oventus 'airway technology' and assist marketing

Name	Study/ Investigation	Patients completed (per Nov 2018)	Results - reduction in AHI (sleep events per hour)*	Commentary	Peer Review
Perth study OVEN-004	Airway Open/Airway Closed	10	69.6 reduced to 19.4 = 72% reduction	Airway Technology increased Efficacy by 30 %	Interim results: Auckland Sleep DownUnder, ASA Conference (abstract) 25 October 2017
Effect of Oventus Airway on Upper airway Physiology	Predictors of response to Oventus Airway	22**	53.6 reduced to 29.4 = 45% reduction	Physiologic Study showing females exhibited greater response to Oventus Airway Technology	Final results presented at the ASA Sleep DownUnder Oct 2018
Brisbane study OVEN-003	Effect of Oventus Airway on Efficac & Compliance		24 reduced to 10 = 58% reduction	Airway Technology increased response rate by 40% and success rate by 20% Increased efficacy in nasal obstructers and previous treatment failures	Final results presented at the ASA Sleep DownUnder Oct 2018
Brisbane study OVEN-001	Efficacy of Oventus O ₂ Vent	29	42 reduced to 16 = 62.5% reduction	Same response rate and efficacy with and without self reported nasal congestion	Journal of Dental Sleep Medicine, Vol 4, No. 3

Total patients

171

^{*} Apnoea-Hypopnoea Index (AHI), known as 'sleep events' per hour occurring when the breathing airway collapses temporarily, leading to disruptions in breathing and sleep, in patients with Obstructive Sleep Apnoea (OSA)

^{** 10} patients data on this study were presented previously in Auckland Sleep DownUnder ASA Conference