



Program



Sleep education wherever you are

sleepweek 

20-23 October 2020

Sleep Week

Sleep Week will be the premier scientific and educational opportunity in 2020 for all clinicians and researchers involved in sleep health and sleep medicine across Australia, New Zealand and the Asia-Pacific region.

We will gather online from 20-23 October to share the latest research findings, learn more about best practice sleep medicine, and uncover opportunities to deliver better sleep services to more communities.

The Sleep Week program features 17 international speakers, all attending virtually, to contribute to two-hour sessions focusing on key aspects of sleep health and sleep medicine. These sessions will also include local experts, as well as short presentations on recent research findings from Australian and New Zealander researchers. There will be a panel discussion on COVID-19 topics as well as opportunities to interact virtually in online happy hours.

Australasian Sleep Association

The Australasian Sleep Association (ASA) is the peak scientific body in Australia and New Zealand representing clinicians, scientists and researchers working in sleep health and sleep medicine. It promotes and provides education and training to members and the broader health community. ASA also fosters scientific research and establishes best-practice clinical guidelines.

The Australasian Sleep Association thanks our sponsors



Welcome from the President



Welcome to Sleep Week. Despite the current climate we are all living in at present, on behalf of the ASA Board, I am delighted that we are able to come together this year, not in our usual way with Sleep DownUnder, but virtually with Sleep Week.

It's important that we still maintain our connections within the community, especially now, to share our knowledge and hear the latest in Australian and International research. The work currently being undertaken by our wider scientific community and specifically our work, is so vitally important for the health and wellbeing of us all.

I would like to extend my thanks to the many individuals who have worked tirelessly to pull together what is an incredible program of Australian and International speakers. Thanks to our Sleep Week sponsors - **Compumedics, Fisher & Paykel, Philips (Sleep and Respiratory Care) and Aspen Pharmacare Australia.**

I'm looking forward to sharing in this experience with you and hopefully coming together in 2021 for Sleep DownUnder.

Alan Young, President

Welcome from the CEO



I started working with the ASA earlier this year, so I haven't yet been lucky enough to attend a Sleep DownUnder conference. I'm disappointed about that, because experiencing a big national conference is the best way to really understand the many dimensions of a professional community.

Instead, this year, we have Sleep Week. The Councils and Conference Committee have done an amazing job of turning this idea into an exciting reality. It's an opportunity to learn from many more international speakers than is possible at a face-to-face meeting, and to still enjoy some of the features of Sleep DownUnder that members appreciate.

Like me, you may sense that the pandemic could change forever how we meet together as a scientific and professional community. We don't yet know what future conference will be like, but in the meantime, Sleep Week is a wonderful opportunity to gather together, learn, debate, and stay connected.

I'm looking forward to speaking with many more ASA members than I've met so far during Sleep Week. I hope you enjoy it!

Marcia Balzer, Chief Executive Officer

Program Overview

	Sydney	Perth	Brisbane	Adelaide	New Zealand
Tuesday, October 20					
Challenging aspects of management in paediatric respiratory sleep medicine	10-5pm	7-2pm	9-4pm	9:30-4:30pm	12-7pm
Fundamentals of Sleep	10-5pm	7-2pm	9-4pm	9:30-4:30pm	12-7pm
Early Career Researchers	6-8pm	3-5pm	5-7pm	5:30-7:30pm	8-10pm
Wednesday, October 21					
Welcome and New Investigator Award presentations	10-12pm	7-10am	9-11am	9:30-12:30pm	12-2pm
Chronobiology	2-4pm	11-1pm	1-3pm	1:30-3:30pm	4-6pm
Dental Sleep Medicine	2-4pm	11-1pm	1-3pm	1:30-3:30pm	4-6pm
Surgery	6-8pm	3-5pm	5-7pm	5:30-7:30pm	8-10pm
Philips evening symposium: Positional Obstructive Sleep Apnoea	6-7pm	3-4pm	5-6pm	5:30-6:30pm	8-9pm
Happy Hour	7-8pm	4-5pm	6-7pm	6:30-7:30pm	9-10pm
Thursday, October 22					
Insomnia & Sleep Health	10-12pm	7-9am	9-11am	9:30-12:30pm	12-2pm
ANZSSA	10-12pm	7-9am	9-11am	9:30-12:30pm	12-2pm
Annual General Meeting	Sydney 12:15-1:15pm	Perth 9:15-10:15am	Brisbane 11:15-12:15pm	Adelaide 11:45-12:45pm	New Zealand 2:15-5:15pm
Paediatric	2-4pm	11-1pm	1-3pm	1:30-3:30pm	4-6pm
Sleep Physicians (Sponsored by Philips)	2-4pm	11-1pm	1-3pm	1:30-3:30pm	4-6pm
Primary Care	6-8pm	3-5pm	5-7pm	5:30-7:30pm	8-10pm
Fisher & Paykel Healthcare evening symposium: Chronic nocturnal use of humidified nasal high flow oxygen in COPD	6-7pm	3-4pm	5-6pm	5:30-6:30pm	8-9pm
Happy Hour	7-8pm	4-5pm	6-7pm	6:30-7:30pm	9-10pm
Friday, October 23					
Occupational Health Safety & Performance	10-12pm	7-9am	9-11am	9:30-12:30pm	12-2pm
Respiratory	10-12pm	7-9am	9-11am	9:30-12:30pm	12-2pm
Neuroscience	2-4pm	11-1pm	1-3pm	1:30-3:30pm	4-6pm
Hot Topic Discussion - An update on COVID19	2-4pm	11-1pm	1-3pm	1:30-3:30pm	4-6pm
Advanced Trainees	6-8pm	3-5pm	5-7pm	5:30-7:30pm	8-10pm
Fisher & Paykel Healthcare evening symposium: Mechanisms of nasal high flow	6-7pm	3-4pm	5-6pm	5:30-6:30pm	8-9pm
Emerging Sleep Hero Awards Happy Hour	7-8pm	4-5pm	6-7pm	6:30-7:30pm	9-10pm

Program

Please note that times listed in the program are Australian Eastern Daylight Time (AEDT)

Tuesday 20 October Postgraduate short courses

Let's try and answer **THOSE** questions:

Challenging aspects of paediatric respiratory sleep medicine

Tuesday 20 October 10am-5pm AEDT

This course aims to address those areas of paediatric respiratory sleep medicine that challenge us all. An international panel of speakers will present on a range of topics relating to different aspects of sleep disordered breathing and ventilation in infants and children. The course will discuss controversial areas specific to paediatrics, such as the limitations of gold standard PSG monitoring, management of persistent OSA when CPAP fails and ethical issues around respiratory support in children with complex medical conditions. There will be the opportunity to interact with the speakers throughout the course, with case discussions utilised to illustrate key points and stimulate discussion areas.

This course is intended for pediatricians, sleep clinicians, sleep scientists/ technicians, ENT surgeons, nurses, fellows, students and anyone involved in the management of infants and children with sleep disorders.

Speakers and topics

- Unanswered questions in paediatric sleep disordered breathing: an overview – **Jasneek Chawla**
- Infants with laryngomalacia – when does sleep monitoring help the surgeon? – **Nicola Slee**
- Intricacies of ventilating infants: when does a tracheostomy help? – **Joanna Maclean**, University of Alberta Canada
- When should we start ventilation in neuromuscular disease: an update on evidence – **David Kilner**
- The AHI doesn't help...what else can we use in paediatric OSA? – **Colin Sullivan**
- The ever-recurring question: which snoring child needs surgery? – **Karen Waters**
- My child won't wear CPAP – what else can we try? The role of the ENT surgeon – **Derek Lam**, Oregon Health and Science University, USA
- My child won't wear CPAP – what else can we try? Non-surgical options – **Jasneek Chawla**
- My child won't wear CPAP – what else can we try? The role of the craniofacial surgeon – **Yun Phua**
- My child won't wear CPAP... Does it matter? Complications of untreated OSA – **Catherine Hill**, University of Southampton, UK
- Withholding respiratory support in children – when is it the best thing to do? – **Paul Walker**

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Fundamentals of sleep

Tuesday 20 October 10am-5pm AEDT

This postgraduate short course provides a foundation for future learning in sleep medicine for dentists, pharmacists, nurses, general practitioners, surgeons, psychologists and medical advanced trainees.

Join expert sleep clinicians and researchers for a day's journey into all you ever wanted to know about sleep, and use it as the basis for improving your knowledge and skills in the years to come.

Speakers and topics

- What is sleep, why is it important? - **Christopher Worsnop**
- What is 'good sleep' and how to wake refreshed in the morning - **Nigel McArdle**
- Societal prevalence and consequences of sleep disorders - **Yu Sun Bin**
- How do we measure sleep? - **Kerri Melehan**
- Assessment and management of sleepiness, including driving - **Mark Howard**
- The three clocks - what is the circadian rhythm? - **Amy Reynolds**
Common non-respiratory sleep disorders (1): circadian rhythm disorders, restless legs and periodic limb movement syndromes, parasomnias, narcolepsy - **Fergal O'Donoghue**
- Common non-respiratory sleep disorders (2): insomnia - **Hailey Meaklim**
Sleep disordered breathing - OSA, CSA, UARS, snoring and hypoventilation - **Bhajan Singh**
- Co-morbidities of OSA - diabetes, hypertension, cardiovascular disease - **Kirk Kee**
- Consequences of OSA - cognitive dysfunction, depression and dementia - **Michelle Olaithe**
- Management of OSA - CPAP - **Liam Hannan**
- Surgical management of sleep disordered breathing - **Leon Kitipornchai**
Management of OSA - weight loss, positional therapy, HGNS, others - **Simon Joosten**
- Oral appliances to manage sleep-disordered breathing, including side effects - **Ramesh Balasubramaniam**
- Clinical management pathways for the patient with OSA - **Maree Barnes**
- Paediatric sleep apnoea and management - **Jasneek Chawla**

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Early Career Researchers

Consumer and citizen engagement and the search for philanthropic grants

Tuesday 20 October 6pm - 8pm AEDT

This free session designed for early career researchers covers engaging consumers in research, harnessing the potential of citizen science approaches, and how to pitch for philanthropic grants.

The speakers are **Shantel Duffy** (Deputy Director of the Healthy Brain Ageing Program and Leader of the Lifestyle, Exercise and Physical Activity Program in the Healthy Brain Ageing Clinic, University of Sydney), **Samantha Rowbotham** (Lecturer in Health Policy at the University of Sydney) and **Sinthia Bosnic-Anticevich** (Woolcock Institute of Medical Research).

Shantel Duffy's session is titled *Engaging consumers in research*.

Samantha Rowbotham currently leads a program of research with the Australian Prevention Partnership Centre exploring the potential of citizen science approaches as a means of engaging the public in research, policy and practice in chronic disease prevention. In this session she will provide an introduction to citizen science approaches and situate these in relation to other forms of public engagement in research and decision-making. She will discuss examples of citizen science approaches from her own work and the work of others in order to stimulate discussion on how these approaches might be applied in the field of sleep research.

Sinthia Bosnic-Anticevich's session is titled *Philanthropic grants: where are they and how can I get one?*

Wednesday 21 October

Welcome and New Investigator Award presentations

10am - 12pm AEDT

Sleep Week opens with a welcome from President, Alan Young, followed by research presentations from the six finalists for this year's New Investigator Award. This is a free session.

New Investigator presentations

- A novel EEG derived marker of sleep depth/alertness predicts excessive daytime sleepiness and perceived poor sleep in large population-based cohorts - **Bastien Lechat**
- Estimating dim light melatonin onset from sleep markers derived from the Munich Chronotype Questionnaire and actigraphy - **Andrew Reiter**
- How do parents sleep? Using a multimethod approach to assess and manage parental insomnia - **Prerna Varma**
- Correspondence between physiological and behavioural responses to vibratory stimuli during the sleep onset period: a quantitative electroencephalography analysis - **Hannah Scott**
- Shift work management: the risk factors, consequences and treatment for Shift Work Disorder in nurses - **Lauren Booker**
- Armodafinil to reduce the sleepiness related side-effects of Sleep Restriction Therapy being used to treat Insomnia Disorder (MODERATE): an open label pilot study compared to historical matched controls - **Daniel Judge**

Chronobiology

Wednesday 21 October 2pm - 4pm AEDT

Let there be light...The impact of daylight savings time and evening light on the human circadian system

Exposure to bright light - whether it be natural or man-made - exerts a powerful impact on the timing of the human body clock. Our ancestors organised their daily life and routines by the rising and the setting of the sun. But now, most of us live in cities, work indoors, and use electric light at night. Because of this, we tend to organise our daily lives by a 'social clock' that is not always synchronised with sunrise and sunset or the body clock. Light plays an important role in shaping our behaviour and the body clock plays an important role in maintaining our health and wellbeing. Join us for a 'light-hearted' discussion about daylight savings time and evening light exposure and the challenges these two conditions present for human health and safety.

Celine Vetter from the University of Colorado and **Andrew Phillips** from Monash University will be discussing the latest research and its implications.

Oral Presentations

- Genetic and environmental influences on sleep/wake behaviours in adolescent twins - **Victoria O'Callaghan**
- The influences of social restrictions related to the COVID-19 pandemic on sleep among staff at a tertiary education institution in NZ - **Sally Baddock**
- Sleep in late pregnancy: a qualitative study - **Sally Baddock**
- The relationship between salivary and urinary melatonin in young adults with short-sightedness (myopia) compared to normally sighted young adults (emmetropes) - **Gorica Micic**

Dental Sleep Medicine

Wednesday 21 October 2pm - 4pm AEDT

Benjamin Pliska from the University of British Columbia in Canada looks at the orthodontic perspective of OSA in children, including CBCT imaging and facial morphology.

Ramesh Balasubramaniam from the University of Western Australia discusses sleep bruxism, its causes, detection, treatment and current advances, while **Ghizlane Aarab** from the Academic Centre for Dentistry Amsterdam is looking at redefining dental sleep medicine.

Oral Presentations

- Comparative effects on CPAP and mandibular advancement splint therapy on blood pressure profile in moderate to severe OSA - **Hasthi Dissanayake**
- Effect of masseter and lateral pterygoid muscle size on mandibular advancement splint therapy - **Anna McLean**
- Acceptance, compliance and efficacy of mandibular advancement splint therapy in atrial fibrillation patients - **Anna Mohammadieh**

Surgery

Wednesday 21 October 6pm - 8pm AEDT

The future of sleep surgery in Australia

This session has applicability to all clinicians who manage sleep-disordered breathing. The focus of the session is on the future of sleep surgery in Australia - in particular, where surgery can play a role in managing OSA, challenges in producing high quality evidence to guide surgeons of the future, and who should be the practitioners of sleep surgery in the future.

Topic and speakers

- Minimally invasive treatments for OSA and snoring - **Bhik Kotecha**, Royal National Throat, Nose and Ear Hospital, UK
- Where will nerve stimulation fit in the OSA treatment paradigm in Australia? - **John Wheatley**
- Challenges and biases in publishing surgical studies - **Edward Weaver**, University of Washington, USA
- Australian OHNS Trainee Sleep Surgery Education Study - **Nathan Hayward**
- Who are the best people to perform sleep surgery in Australia? - **Stuart Mackay**

Philips evening symposium

Wednesday 21 October 6pm - 7pm AEDT

The Philips logo is displayed in a bold, blue, sans-serif font. It is positioned to the right of the 'Philips evening symposium' section header. The background of the slide features a large, faint, light green graphic of a DNA double helix.

Prevalence of positional OSA and clinical approaches to therapy

Hosted by Phillips, this symposium covers the characteristics of positional obstructive sleep apnoea (POSA), its prevalence and pathophysiology. Clinical evidence will be highlighted to show insights into therapy options and compliance.

Speakers for this session are yet to be confirmed. This is a free session.

Wednesday Happy Hour

Wednesday 21 October 7pm - 8pm AEDT

Join Sleep Week delegates online for a moderated discussion of the day's sessions. BYO beverage. Free session.

Thursday 22 October

Insomnia and Sleep Health

Thursday 22 October 10am - 12pm AEDT

Effective, essential and employable: the role of mindfulness and acceptance-based therapies in management of sleep disorders

Featuring **Jason Ong** from Northwestern University in the US, and **Eric Morris** from LaTrobe University, this session includes presentations and discussion useful for researchers, clinicians and students.

Jason Ong will examine the applicability of mindfulness-based therapies (MBT) to improve outcomes related to various sleep disorders. The presentation will highlight different MBT approaches, with a specific focus on specialised Mindfulness Based Therapy for Insomnia that combines elements from MBT and Cognitive Behaviour Therapy for Insomnia (CBT-I). The presentation will include a summary of recent research on applicability of MBT approaches in context of different sleep disorders as well as how the accessibility and adherence to the treatments can be improved.

Principles of Acceptance and Commitment Therapy (ACT) will be discussed by speaker **Eric Morris**, with elaboration on how these principles can be translated into clinical practice for sleep disorders. Useful act approaches will be explored for treating insomnia in adults, particularly in individuals that may have co-existing conditions such as Autism Spectrum Disorder, depression and bipolar disorder.

Both speakers will engage in a discussion on current treatment issues in clinical practice and future integration of MBT or ACT interventions in clinical sleep treatments.

Oral Presentations

- Sleep in the time of COVID-19: Impact of a global pandemic on sleep and mental health - **Melinda Jackson**
- An evaluation of wind farm noise effects on sleep using validated objective and subjective sleep assessment: a systematic review and meta-analysis - **Tessa Liebich**
- The effect of body position on maternal cardiovascular function during sleep and wakefulness in late pregnancy - **Danielle Wilson**
- A double-blind placebo controlled, randomised cross-over evaluation of medicinal cannabis for treating insomnia symptoms - **Jennifer Walsh**
- Sleep misperception among older adults suffering from insomnia with short and normal objective sleep duration and the effects of Cognitive Behaviour Therapy - **Nicole Lovato**

ANZSSA

Thursday 22 October 10am - 12pm AEDT

The only thing that is constant is change

Topics and speakers

- The pressure to protect staff when applying pressure - **Michelle Ananda-Rajah**
- Level 4 testing during stage 3 lockdown - **Nicole Verginis**
- Access to patient data when the patient is not so accessible:
CPAP pump data access in a sleep service - **Julie Tolson**
How do filters added for COVID-19 affect non-invasive ventilator performance? - **Rodney Hone**
Trial of respiratory rate measurement for COVID-19 patient monitoring - **Tom Churchward**
- More than sleep. Using PSG's for COVID-19 and other diseases - **Erna Sif Arnadottir**, University of Reykjavik, Iceland
- The validity of wrist-worn actigraphy compared to polysomnography for detecting sleep versus wake in the presence of environmental road traffic and wind farm noise - **Gorica Micic**

Annual General Meeting

Thursday 22 October 12:15pm - 1:15pm AEDT

The ASA's Annual General Meeting plus announcement of award winners for 2020 - New Investigator Award, Distinguished Service Award and President's Award. This is a free session.

Paediatric

Thursday 22 October 2pm - 4pm AEDT

Join two leading international speakers for a cutting-edge session in paediatric sleep medicine.

Children's sleep in hospital – can we do better?

Catherine Hill, University Hospital Southampton, UK

Hospital routines and ward sleep environments are rarely conducive to a good night's sleep. Sleep debt affects co-sleeping parents as well as the inpatient child. This matters because short, or broken sleep affects mood, emotional regulation, pain tolerance and immune function. In this talk we will review the international evidence on the impact of the hospital environment on sleep and consider approaches to promote healthy sleep alongside safe care.

I sleep, therefore I learn: a lesson for the ephemera society

Karen Spruyt, University of Lyon, France

One of the main tasks in childhood is learning. Another primary activity during childhood is sleeping. During sleep, the brain is switched into an activation state that is distinct from wakefulness at both microscopic (e.g., spindles) and macroscopic (e.g., sleep duration) levels. Progressively more studies overall conclude that without proper sleep a child's cognitive abilities suffer, but questions on how and to what extent, linger. In this talk, we provide a state of the art on the impact of sleep on cognition.

Oral Presentations

- A meta-analysis of the relationship between subjective sleep and depression in adolescence - **Victoria O'Callaghan**
- Sleep planning in adolescents: daily associations between bed and rise time planning and sleep opportunity over 28-day of school and vacation - **Svetlana Maskevich**
- Cumulative sleep debt, and associations with daily affect in adolescents: a 28-day study over school and holiday periods - **Lin Shen**
- Associations between sleep and heart rate variability in healthy young children - **Barbara Galland**

Sleep Physicians

Thursday 22 October 2pm - 4pm AEDT

State of the art: sleepiness, restless legs and use of consumer data to measure sleep

Topics and speakers

- Hypersomnia
 - Measurement and classification - can we do better? - **Simon Frenkel**
 - Advances in pharmacotherapy - **Claire Ellender**
- Restless legs syndrome
 - Difficult restless legs - are opiates the answer? - **John Winkelman**, Harvard Medical School, USA
 - Q&A - **John Swieca and John Winkelman**
- Consumer data
 - What can consumer data - big and small - tell us about sleep? - **Olivia Walch**, University of Michigan, USA
 - Q&A - **David Cunnington and Olivia Walch**

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Primary Care

Thursday 22 October 6pm - 8pm AEDT

Primary care management of insomnia

Christina Sandlund from Sweden's Karolinska Institutet will discuss implementing CBT-I as group treatment led by nurses in seven primary health centres in Stockholm. The effects of treatment were evaluated in a randomised controlled trial. Focus group interviews to explore patient's experiences of the treatment were also conducted as part of the project.

Claire Ellender will lead a 20-minute care-based discussion of insomnia pharmacotherapy in the management of chronic insomnia.

Oral Presentations

- Systematic review and IPD meta-analysis of randomised trials comparing primary care vs specialised sleep centre management of obstructive sleep apnoea - **Emer Van Ryswyk**
- Is cumulative time of oxygen desaturation a better predictor of cardiovascular mortality than Apnoea Hypopnoea Index? - **Nadi Sadr**

Oral Presentations cont.

- Sleep health with ageing: interviews exploring the experiences, attitudes and behaviours of older people living in Aotearoa - **Rosemary Gibson**
- Prevalence of cognitive impairment in patients undergoing evaluation for obstructive sleep apnoea in an Australian population - **Asha Bonney**

Fisher & Paykel Healthcare evening symposium

Thursday 22 October 6pm - 7pm AEDT

Fisher & Paykel
HEALTHCARE

Chronic nocturnal use of humidified nasal high flow oxygen in COPD patients - effects on exacerbations and hospitalizations

Presenters **Ulla Weinreich** and **Line Storgaard** from Aalborg University Hospital, Denmark conducted the largest RCT study to date using chronic nasal high flow (NHF) and myAIRVO to treat COPD patients who were already using long term oxygen therapy. 200 patients were randomly assigned into either the control group (standard care), or the NHF group (standard care and NHF) and were evaluated over one year of treatment and care. The results of this landmark study will be presented. This includes the main study results demonstrating the close to 40% reduction in exacerbations, improved quality of life, reduced dyspnea and hypercapnia, and a reduction in hospitalization for those who complied with the therapy. Also being presented will be a recently published qualitative study where 20 people including some trial participants and family caregivers were asked a series of structured questions around their experience using myAIRVO at home, and a preliminary health economic analysis based on the result of the original RCT. This is a free session.

Thursday Happy Hour

7pm - 8pm AEDT

Join Sleep Week delegates online for a moderated discussion of the day's sessions. BYO beverage. Free session.

Friday 23 October

Occupational Health Safety & Performance

Friday 23 October 10am - 12pm AEDT

Irregular working hours and sleep

Shift work and circadian challenges beyond Earth

Laura K Barger from Harvard Medical School, USA, will present on shift work and circadian challenges on the International Space Station, in a 105-day simulation study in Moscow and in the Phoenix Mars Lander project. Fatigue countermeasures used in those situations will also be presented.

Shift work and the effectiveness of different coping strategies

Jill Dorrian's presentation will focus on the types of coping strategies that are used by shift workers and will discuss the effectiveness of these strategies in maintaining performance and vigilance while at work and aiding sleep between shifts.

Oral Presentations

- The relationship between off-site on-call shifts and sleep, mood and vigilance among doctors - Doctors On-Call (DOC) study - **Raymond Wong**
- Assessment of fitness to drive in Counties Manukau sleep patients - **Alison Goldthorpe**
- Cough syncope as a cause of motor vehicle crash: fatal distraction? A case series - **Hui Guo**

Respiratory

Friday 23 October 10am - 12pm AEDT

OSA and COVID-19 topics by demand

Respiratory support for COVID-19 pneumonitis through the pandemic: the role of NIV, HNFO and CPAP, presented by **Alister Neil** and **NIV respiratory support for non COVID19 patients through the pandemic**, presented by **Mark Howard** will examine aspects of COVID-19 treatment as requested by Respiratory Council members. This will include the use of NIV in non-COVID patients during the pandemic.

Ocular manifestations of sleep apnoea

Charles Bouchard from Loyola University Chicago will present on ocular manifestations of sleep apnoea. His presentation will outline the anterior segment (cornea, orbit, eyelids) and posterior segment (glaucoma, retina, neurological) manifestations of obstructive sleep apnoea.

A cardiologists' perspective: obstructive sleep apnoea and atrial fibrillation

Omar Farouque will outline the pathophysiological links between OSA and atrial fibrillation (AF), both common co-morbidities. The impact of treating OSA on management of AF will be explored including the potential value of screening for OSA in AF patients.

Oral Presentations

- Does craniofacial phenotype relate to sleep apnoea severity reduction following weight loss interventions? A patient level meta-analysis - **Kate Sutherland**
- APAP variation between devices from different manufacturers - **Angela Campbell**
- Cross sectional association between measures of sleepiness in obstructive sleep apnoea and cardiovascular disease in the Western Australian Sleep Health study - **Shok Yin Lee**
- Conducting a non-contact sleep study in the era of COVID-19 - **Julie Tolson**
- Are subjects recruited to randomised controlled trails representative of typical sleep clinic patients - **Ayesha Reynor**
- Sleep and mood in a bubble: The impact of changed sleep during COVID-19 alert level restrictions on anxiety, depression and loneliness - **Rosemary Gibson**

Neuroscience

Friday 23 October 2pm - 4pm AEDT

From animal models to artificial intelligence: state of the art in sleep neuroscience

Lucy Tainton-Heap, will discuss in her session titled *A paradoxical kind of sleep in Drosophila melanogaster: Implications for understanding the ontogeny of REM sleep*, the dynamic nature of sleep in animals which suggest distinct stages that serve different purposes.

In his session titled *Deep learning solutions for sleep medicine*, invited international speaker, **Henri Korkalainen**, University of Eastern Finland & Kuopio University Hospital, will introduce different deep learning approaches developed in research groups for the automatic estimation of OSA severity from blood oxygen saturation signals, and automatic detection of respiratory events from cardiorespiratory signals. In addition, deep learning approaches for identifying sleep stages utilising a single EEG channel or photoplethysmography signals will be discussed.

This session will also include a panel discussion with speakers from the neuroscience session.

Oral Presentations

- Self-reported snoring patterns predict stroke events in high-risk patients with obstructive sleep apnoea: post-hoc analyses of the SAVE study - **Jing-Wei Li**
- Sleep and neuroimaging biomarkers of brain health in older adults - **Stephanie Rainey-Smith**
- Motor control of the genioglossus during after-discharge - **Amy Jordon**

Hot topic discussion

Friday 23 October 2pm - 4pm AEDT

An update on COVID-19

A panel of experts - chaired by **Alan Young** and including Federal Deputy Medical Officer, **Nick Coatsworth** - provides a snapshot of where we're at with COVID-19, and the implications for health systems in the future. There will also be time for questions and discussion.

- COVID-19 - Where have we come from and where are we going? - **Nick Coatsworth**, Federal Deputy CMO
- COVID-19 transmission and risks for healthcare workers - **Stephen Guy**
- Risks and benefits of acute NIV for COVID-19 infection - **Amanda Piper**
- Monitoring in the time of COVID-19 - **Teanau Roebuck**
- Update on National Living Guidelines COVID-19 - **Sutapa Mukherjee**

Advanced Trainees

Friday 23 October 6pm - 8pm AEDT

Clinical research project presentations from Medical Advanced Trainees.

More details coming soon.

Fisher & Paykel Healthcare evening symposium

Friday 23 October 6pm - 7pm AEDT



Mechanisms of nasal high flow

This session covers the three key mechanisms of Nasal High Flow (NHF) - respiratory support, hydration and oxygen presented through an educational tool which the presenter has developed and widely used.

Stanislav Tatkov joined Fisher & Paykel Healthcare in 2007 and is involved in Research and Development of high flow systems. His research interests cover respiratory physiology and chronic respiratory diseases. He obtained his MD and PhD degrees in Russian State Medical University, Moscow. Prior to joining Fisher & Paykel Healthcare he researched mucociliary transport and the role of humidification on mucus transport velocity at Massey University, New Zealand. This is a free session.

Emerging Sleep Hero Awards Happy Hour

Friday 23 October 7pm - 8pm AEDT

Energy, fun and excitement are the dominant themes of Friday's happy hour, hosted by the Sleep Health Foundation and the newly-launched Australian Sleep and Alertness Consortium.

The Emerging Sleep Hero Awards will offer Australian and New Zealand university students with a primary research focus on sleep or alertness an opportunity to showcase their research and its impact.

Six chosen finalists will give a three-minute creative pitch live during the happy hour about their research and its potential impact. With lots of opportunity for audience interaction along the way, the judges will announce the winners at the end of the session, finishing Sleep Week on a high note. This is a free session.

Sleep Week Sponsors

Compumedics

Technology sponsor

Compumedics Limited is a trusted medical device company involved in the development, manufacture and commercialisation of diagnostic technology for the sleep, brain and ultrasonic blood-flow monitoring applications.

Executive Chairman Dr David Burton founded Compumedics in 1987. In the same year the Company successfully designed and installed the first Australian, fully computerised sleep clinic at Epworth Hospital, Melbourne. Following this early success, Compumedics focused on the development of products that sold into the growing international sleep clinic and home monitoring markets.

Compumedics is today, Australia's leading sleep diagnostic provider, offering technologically forward, intuitive and comprehensive range of solutions for the clinical laboratory setting to the home.

Explore some of our highlights:

- GraeL-4K diagnostics system is the world's first high-definition PSG solution with the latest digital amplifier technology. When you need clearer, more precise data for sleep studies and more advanced capabilities in data analysis and data management, GraeL-4K delivers. With the increasing interest in low frequency and high frequency EEG analysis to discriminate certain sleep disorders and the desire to have more physiologic responses for SpO2, nasal pressure and other parameters, digital amplifiers and signal processing should be uncompromising in their design.
- Somte PSG is the solution - whether you are looking for an attended sleep studies recorder, or you wish to perform full polysomnography in an unattended, ambulatory setting, or both. Somte PSG is the simplest and most convenient way to meet requirements for full PSG...absolutely anywhere.
- ProFusion Sleep Software Suite is the world-class PSG software platform. The latest iteration released in 2020, Version 5 is designed to give you everything you need and more: Clarity, Power, Speed, Quality Assurance, and Great Reports. Profusion SLeep will optimise your laboratory efficiency by improving scoring speed and providing clear, accurate results in exactly the report formats you need. And, because it is fully compatible with the complete Compumedics family of recorders/amplifiers, your sleep program can easily expand into new testing modalities...without having to learn new software or change your report formats. Profusion SLeep software suite offers true flexibility and control of data recording. Comprehensive analysis and reporting lets you handle your data your way - efficiently.
- ProFusion neXus 360 is a revolution in laboratory management. Built on the proven Profusion neXus platform with more than 15 years of customer use and

thousands of users, Profusion neXus 360 offers the full functionality of Profusion neXus and more, in a fully web-based interface. It provides healthcare professionals with the ability to access data from any device, anytime and anywhere and can be tailored as an on-premise solution managed by you or a cloud-based solution managed by Compumedics. Compumedics' cloud-based infrastructure provides complete data storage and archive capabilities whilst eliminating costly IT support and locally-managed server requirements.

Compumedics listed on the Australian Securities Exchange in 2000. Over the years, Compumedics has received numerous awards, including Australia's Exporter of the Year, and has been recognised as a Top 100 Innovator by both German and Australian governments.

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As a global leader in the sleep and respiratory markets, we're passionate about providing solutions that lead to healthier patients, practices, and businesses. For us, innovation in sleep apnoea management, oxygen therapy, noninvasive ventilation, and respiratory drug delivery is driven by gaining insight into the needs of our customers.

We believe that effective sleep therapy management empowers patients to rediscover their dreams and to have the freedom to live a fulfilling life by restoring their ability to sleep comfortably - as sleep is intended to be. We are passionate about providing patient-driven designed products that help patients lead healthy lives and, for providers, solutions designed to increase patient adoption, long-term use and enhanced efficiencies that help them attend to patient's needs.

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*excludes compounding; [^]IQVIA data May 2020

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