

EXHIBIT J

**Expert opinion on the inquiry into the convictions of Kathleen Megan Folbigg
Prepared by Professor Rosemary SC Horne, PhD, DSc
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Rosemary Sylvia Claire Horne, BSc, MSc, PhD, BLitt, DSc

Specialised knowledge: I completed my PhD from Monash University in 1989. My thesis investigated arousal responses from sleep as an underlying mechanism for Sudden Infant Death Syndrome (SIDS). I returned to the Department of Paediatrics, Monash University in 1995 and have headed an extensive research program investigating the physiological mechanisms involved in SIDS and other sleep disorders in children publishing over 170 peer reviewed publications in this area.

I was chair the National Scientific Advisory Group of Red Nose formerly SIDS and Kids Australia (2015-2018). I am on the executive on the International Pediatric Sleep Association, I chair the Physiology Working Group of the International Society for the Study and Prevention of Perinatal and Infant Death, I chaired the Paediatric Special Interest Group of the Australasian Sleep Association 2011-2015, I am on the editorial boards of the scientific journals Sleep, Sleep Medicine and Sleep Research.

In 2017 I was awarded a Doctorate of Science by Monash University. This degree is awarded for work that makes an original, substantial and distinguished contribution to knowledge which is internationally recognised. In 2018 I was awarded International Society for the Study and Prevention of Infant Death Distinguished Researcher Award for outstanding contributions to SIDS Research.

I, Professor Rosemary SC Horne, acknowledge for the purpose of Rule 31.23 of the Uniform Civil Procedure Rules 2005 that I have read the Expert Witness Code of Conduct in Schedule 7 to the said rules and agree to be bound by it.

Background

Sudden infant death syndrome (SIDS) is currently defined as “*the sudden unexpected death of an infant < 1 year of age, with onset of the fatal episode apparently occurring during sleep, that remains unexplained after a thorough investigation, including performance of a complete autopsy and review of the circumstances of death and the clinical history.*”¹

SIDS is a diagnosis of exclusion and there has been considerable research into the underlying mechanisms that may underpin the known risk factors for SIDS. SIDS is believed to be multifactorial in origin² and a triple risk hypothesis has been proposed to model the current knowledge³. This model proposes that when a vulnerable infant, such as one born preterm or exposed to maternal smoking is at a critical but unstable developmental period in homeostatic control, is exposed to an exogenous stressor such as being prone to sleep, then SIDS may occur. The model proposes that infants will die of SIDS only if they possess all three factors, and that the vulnerability lies dormant until they enter the critical developmental period and are exposed to an exogenous stressor.

SIDS occurs during sleep, with 90% of deaths occurring in the first 6 months of life, with a peak at 2-4 months and fewer babies dying in the first month⁴⁻⁸. This is a time when sleep patterns and cardiorespiratory control are rapidly maturing⁹. The final pathway to SIDS is widely believed to involve immature cardiorespiratory control, in conjunction with a failure of arousal from sleep¹⁰. Support for this hypothesis comes from numerous physiological studies showing that the major risk factors for SIDS (prone sleeping, maternal smoking, prematurity, head covering) have significant effects on blood pressure and heart rate and their control and impair arousal from sleep⁹. In addition, babies who subsequently died from SIDS had incomplete arousal responses¹¹ and altered autonomic cardiovascular control¹².

Issues arising:

Potential protective factors for SIDS.

All infants were born at term with a normal birth weight. Worldwide 8-10% of babies are born preterm (before 37 weeks of gestation). Preterm babies are at 4 times an increased risk for SIDS¹³. However, the majority of infants who die from SIDS are born at term. The Confidential Enquiry into Stillbirths and Deaths in Infancy (CESDI) conducted across England between 1993 and 1996¹⁴ reported that 80% of SIDS infants were born >37 weeks gestational age.

All infants were found supine with their faces uncovered and were sleeping in their own bed. Sleeping a baby supine (on their back) is recommended as sleeping babies prone (on their tummies) significantly increases the risk of SIDS. In a meta-analysis of case control studies from 20 countries 18.6% of SIDS cases were placed supine to sleep and found supine and 25% had their faces covered¹⁵. The most recent data from the New Zealand SUDI Nationwide Case Control study with 133 cases and 258 controls reports 83 (65.9%) of infants who died were placed to sleep on their backs¹⁶.

The Collaborative Home Infant Monitoring Evaluation (CHIME) study collected cardiorespiratory data during overnight home monitoring in 1070 infants for 700,000 hours to detect episodes of extremely prolonged apnoea or bradycardia. Extreme cardiorespiratory events were defined as an apnoea ≥ 30 seconds or a heart rate < 60 bpm for ≥ 10 seconds (when < 44 weeks post menstrual age) or < 50 bpm for ≥ 10 seconds (when < 44 weeks post menstrual age). The results showed that in the 116 infants who experienced an extreme cardiorespiratory event, compared with 231 matched control subjects (2 per case) who did not experience any extreme events, extreme cardiorespiratory events were just as likely when infants slept supine as when they slept prone or on their side¹⁷. It needs to be acknowledged that the majority of extreme events were in infants who had been born preterm.

Age at death SIDS is defined as the death of an infant less than one year of age, and 90% of deaths occur in the first 6 months of life, with a peak at 2-4 months and fewer babies dying in the first month⁴⁻⁸. Patrick was 8 months and Sarah 10 months when they died.

In relation to the death of Caleb at 19 days. Between 2004-2006 in the USA 10% of SIDS cases died under one month of age¹⁸ and in the New Zealand SUDI study 16 infants died between 7-27 days of life¹⁶.

In relation to the death of Laura at 19 months. Sudden unexplained death in childhood (SUDC) is much less common than SIDS (1.0-1.4 deaths per 100,000 of the population compared to 38.7 deaths per 100,000 live births) and occurs mainly in toddlers aged 1-4 years¹⁹.

Vaccination All children were vaccinated which is protective. A recent meta analysis found that a multivariate OR for immunisation and SUDI to be 0.54 (95% CI 0.31-0.76), in other words the risk of SUDI is halved in immunised infants^{20,21}.

Dummy use. Sarah, Laura and Patrick used a dummy. Meta-analyses of available studies^{22,23} have consistently reported a reduced risk of sudden infant death by 50-60% associated with dummy use.

Socioeconomic status. There is an increased risk of SIDS in families of low socioeconomic status and in unmarried mothers, however the Folbiggs married and were typical of a family with an average income, they both worked and owned their own home, which was kept clean and well presented.

Potential Risk Factors

All infants were formula fed. Breast-feeding is protective. Laura was breast fed initially for two weeks. Recent evidence from a multivariable analysis of 2267 SIDS cases and 6837 control infants showed that breastfeeding for less than 2 months was not protective (adjusted odds ratio [aOR]: 0.91, 95% confidence interval [CI]: 0.68 – 1.22). However, breast feeding for longer than 2 months was protective, with greater protection seen with increased duration (2 – 4 months: aOR: 0.60, 95% CI:0.44 – 0.82; 4 – 6 months: aOR: 0.40, 95% CI: 0.26 – 0.63; and >6 months: aOR: 0.36, 95% CI:0.22 – 0.61)²⁴ .

All infants, with the exception of Sarah, slept in their own room. Room-sharing is protective. Several studies have shown that when a caregiver sleeps in the same room, but not the same bed with their baby, the chance of the baby dying suddenly and unexpectedly is reduced by up to 50% when compared to babies sleeping in a separate room (solitary sleeping)²⁵⁻³⁰ .

Maternal age. There is an increased risk of SIDS in younger mothers (less than 26 years)³¹ . Ms Folbigg was 21 when Caleb was born, 22 when Kathleen was born, 25 when Sarah was born and 30 when Laura was born.

Smoking. Maternal smoking increases the risk of SIDS, however Ms Folbigg did not smoke. Mr Folbigg did smoke and paternal smoking and passive smoke exposure during infancy have been associated with an increased risk of sudden infant death, with some data demonstrating that these relationships are also dose-dependent³²⁻³⁴ .

Advances in the understanding of SIDS since May 2003

Recordings of infants on cardio-respiratory monitors during the time of death suggest that autonomic failure plays a role in the fatal event. Arousal from sleep involves both physiological and behavioural responses and has long been considered a vital survival response for restoring homeostasis in response to various life-threatening situations, such as prolonged hypoxia or hypotension³⁵ . There are two distinct arousal types defined in infants, sub-cortical activation and full cortical arousal, which reflect the hierarchical activation from the brainstem (including heart rate, blood pressure and ventilation changes) to the cortex³⁶ . Any impairment of these protective responses may render an infant vulnerable to the respiratory and cardiovascular instabilities that are common during infancy, and that have been postulated to occur in SIDS.

Among the characteristic findings prior to the SIDS event are a short lasting yet profound bradycardia (slowing of the heart) before the advent of central apnoea or sometimes in the presence of continued respiratory effort^{37,38} . In support of this idea, infants who had been studied previously and who subsequently died from SIDS had higher baseline heart rates³⁹ , lower heart rate variability which is a measure of autonomic control of the heart⁴⁰ , a prolonged QT interval⁴¹ , and low parasympathetic or vagal tone and/or high sympathovagal balance^{42,43} . Studies have also revealed that infants who subsequently dies from SIDS had fewer spontaneous arousals from sleep and impaired arousal responses with fewer full cortical arousals¹¹ . These findings support the role of impaired cardiovascular control and a failure of arousal from sleep being involved in the final pathway to SIDS.

In recent years there have been significant advances in identifying genetics and neuropathology which are associated with SIDS. These have established an increasing number of inherited or sporadic gene mutations, which can cause either sudden unexpected death (e.g. cardiac arrhythmias) or polymorphisms, which likely contribute to death but require additional factors⁴⁴ . Conceptually, the discovery of specific brain pathology in up to 70% of

unexplained sudden unexpected death in infancy (SUDI) ⁴⁵ is in general similar to genetic advances, in that some pathology will be causative and other pathology contributory.

Kinney and colleagues have proposed that dysfunction in brainstem serotonergic and GABAergic mechanisms that control heart rate, breathing, body temperature, upper airway patency, sleep and arousal, impair an infant's ability to respond to stressors ⁴⁶⁻⁴⁹. These "protective" responses include arousal from sleep, cardiorespiratory responses to hypoxia and hypercapnoea, motor responses to lift or turn the head to clear the airway, the laryngeal chemoreflex and auto resuscitation in response to asphyxia.

Other researchers have identified abnormalities of the Phox2B immune reactive neurons which are critical for detection of carbon dioxide⁵⁰. Abnormalities in the dentate gyrus have been identified in 41% of 153 infants who died suddenly and unexpectedly with no apparent cause⁵¹. Abnormalities in this brain region have also been identified in cases of sudden unexpected death due to epilepsy and febrile seizures.

Abnormalities in the neuropeptide substance P (SP) and its tachykinin neurokinin-1 receptor (NK1R) have been shown to play an integral role in the modulation of homeostatic function in the medulla. These functions include regulation of respiratory rhythm generation, integration of cardiovascular control, and modulation of the baroreceptor reflex which controls blood pressure and mediation of the chemoreceptor reflex in response to hypoxia. Abnormalities in SP neurotransmission may therefore result in autonomic dysfunction during sleep and contribute to SIDS deaths. Compared to controls, SIDS cases exhibited a differential, abnormal developmental profile of the SP/NK1R system in the medulla. Furthermore, the study revealed significantly decreased NK1R binding within key medullary nuclei in SIDS cases ⁵².

The orexinergic neurons control wakefulness/arousal and have also been shown to be reduced in SIDS infants compared to controls ⁵³.

There is convincing evidence that a slight infection and an activated immune system are involved in SIDS. Almost half of SIDS infants had a mild respiratory infection in the last days prior to death⁵⁴. Genetic variations in cytokine genes are most likely involved⁵⁵.

Genetic studies indicate that up to 35% of SIDS cases might be explained by familial or genetic diseases, such as cardiomyopathies, ion channelopathies or metabolic disorders that remained undetected during conventional forensic autopsy procedures⁵⁶. Whole-exome sequencing (WES) in 161 European SIDS infants with focus on 192 genes associated with cardiovascular and metabolic diseases. Potentially causative variants were detected in 20% of the SIDS cases. The majority of infants had variants with likely functional effects in genes associated with channelopathies (9%), followed by cardiomyopathies (7%) and metabolic diseases (1%) ⁵⁶.

In summary, the underlying cause of the majority of SIDS cases still remains elusive and is likely due to a multifactorial etiology, triggered by a combination of different genetic and environmental risk factors. In the last decade there have been significant advances in identifying genetic factors which could explain an infant's increased risk for SIDS. As WES is not substantially more expensive than a targeted sequencing approach, it represents an unbiased screening of the exome, which could help to investigate different pathogenic mechanisms underlying SIDS. Additionally, re-analysis of existing datasets provides an opportunity to identify new candidate genes in SIDS and to examine cases of multiple deaths in families.

Relationship between ALTE and SIDS

An apparent life threatening event (ALTE) is “an episode that is frightening to the observer and that is characterised by some combination of apnoea (central or occasionally obstructive), colour change (usually cyanotic, but occasionally erythematous or plethoric), marked change in muscle tone (usually marked limpness), choking, or gagging.”⁵⁷ In the 1970’s it was thought that ALTEs were precursors of SIDS and these events were referred to as Near-Miss for SIDS events⁵⁸. During the 1980’s and 1990’s numerous studies were carried out investigating infants who presented with ALTE to try and identify causes and risk factors for SIDS, however a link between the two has never been proven and there is substantial evidence that the two conditions are in fact not related⁵⁷. Findings that do not support this association include the absence of a temporal occurrence of the two events and failure for the incidence of ALTE to change despite large reductions in the incidence of SIDS. SIDS invariably occurs during sleep and this finding has been included in the recent definition of the event.¹ In contrast to SIDS, most ALTE have been reported to occur during the daytime⁵⁹⁻⁶¹ and whilst awake.⁶² In most cases observers of an infant experiencing an ALTE report that the event appeared life threatening or that they thought that the infant had died, but that prompt intervention resulted in normalisation of the child’s appearance⁶³.

Further, a lack of association is supported by the evidence that SIDS incidence has significantly decreased since the early 1990’s in western countries where reducing the risks campaigns were introduced, whilst the incidence of ALTE has remained unchanged.⁶⁴ One estimate suggested that 7% of SIDS cases are preceded by ALTE⁵⁷, however in the CHIME study only 1 of 153 ALTE infants subsequently died⁶¹. Furthermore, in a review of 8 studies and 643 infants who had experienced an ALTE, 5 deaths (0.8%) were reported, with all those infants having an underlying medical problem⁶⁵.

The majority of ALTEs occur in infants younger than 1 year of age, with a median age of 1-3 months⁶⁵⁻⁶⁷. Infants born prematurely are at increased risk.⁶⁸ Over 80% of infants with ALTE appear to have no acute distress by the time they are seen at the emergency department⁶⁹ and no specific diagnosis can be found in up to 30% of those infants seen⁶⁶. In a systematic review of 8 non randomised descriptive studies,⁷⁰⁻⁷⁶ the most common diagnoses made in cases of ALTE were gastro-oesophageal reflux disease (GORD), which was reported in all studies and comprised 31% of total diagnoses, lower respiratory tract infection including pertussis and respiratory syncytial virus infection were reported in 5 studies and 8% of all diagnoses, and seizure was reported in 7 studies and 11% of all diagnoses.⁶⁵ Other diagnoses were problems with ear, nose and throat (3.6% of all diagnoses), cardiac problems (0.8%), urinary tract infection (1.1%), metabolic disease (1.5%), ingestion of drugs or toxins (1.5%), breath holding (2.3%), and factitious illness (0.3%). Unknown diagnoses were reported in 7/8 studies and made up 23% of all diagnoses and this varied widely from 9-83% between studies⁶⁵.

Overnight polysomnographic (PSG) studies are the gold standard for quantification and differentiation of obstructive and central sleep disordered breathing. The goal of PSG in children who experience an ALTE would be to identify abnormalities that predict subsequent risk of SIDS, however studies of infants who eventually succumbed to SIDS⁷⁷⁻⁷⁹ demonstrated PSG abnormalities that were neither sufficiently distinctive nor predictive to support routine use of PSG for children at risk for SIDS. PSG findings have also been shown to be not predictive of recurrence of ALTE⁸⁰⁻⁸². International guidelines therefore state that PSG is not indicated for routine evaluation in infants with an uncomplicated ALTE^{83,84}.

It has been recommended however, that PSG should be considered in infants who have experienced an ALTE when there is clinical evidence of a sleep related breathing disorder such as obstructive sleep apnoea or sleep-related hypoventilation^{83,84}. Clinical indications might include symptoms of obstructed breathing during sleep, hypercapnia on blood gas sampling, bradycardia on cardiac monitoring in the absence of central apnoea, or clinical evidence of desaturation⁸⁴. Indeed, studies have suggested that infants who had experienced an ALTE may be at increased risk of having or developing OSA, especially when there is a family history of sleep related breathing disorder or facial dysmorphism⁸⁵⁻⁸⁸.

Home monitoring of a baby after ALTE is no longer recommended, but may be helpful in a subset of patients⁸⁹. Monitoring may allow more rapid response by parents to events, thereby limiting the extent of hypoxia. It may not however provide warning in time to prevent sudden death as a result of a respiratory or other event. Monitors with capability to record cardiac and respiratory events may be particularly helpful diagnostically following ALTE⁹⁰ as physiological parameters during an event can be assessed by expert staff. Monitors that detect apnoea only are not indicated in infants with upper airway obstruction because ongoing respiratory efforts against an obstructed airway will not result in an alarm. Events monitors that can detect desaturation and bradycardia are more helpful in this context; alternatively, an oximeter may be indicated for home monitoring.

Many parents, aware of the risk of sudden infant death and wanting to provide the best possible care for their child, may consider the purchase of a home monitoring system for their baby. This may also include parents who are expecting a baby following the sudden and unexpected death of a baby previously.

All alarm systems, however, have been associated with false alarms and babies have been found dead without the monitor alarming⁹¹. Many babies experience apnoea (prolonged pause in breathing) and a slow heart rate exceeding the alarm thresholds and do not die. This may cause multiple false alarms. A link has not been established between prolonged apnoea and SIDS^{92,93}. A monitor may be very disruptive for the family and some families find using devices can increase anxiety⁹⁴. False alarms may occur if the baby is breathing shallowly, rolls off a mat, or there are technical problems with the machine.

Some manufacturers of home monitors make false claims that they prevent sudden death. There is no evidence to support these claims^{83,94}.

It is likely that the ALTE experienced by Patrick, which preceded his death, led to his epilepsy and this may have contributed to his death. There is little evidence that an ALTE without long-term sequelae precedes SIDS, but in this case the outcomes of the ALTE were severe. As noted above cardiorespiratory monitoring may not have prevented this death. New technologies since 2003 may be able to shed more light on the underlying causes of Patrick's death.

More than one SIDS in a family

It has been estimated that the risk of SIDS is between 5-10 times greater for infants where a sibling has already been a SIDS victim, this is because many of the genetic and environmental factors will be the same⁹⁵. This paper reports 9 families which had 3 infant deaths - 8/9 were natural deaths and 1 was a triple homicide. There has been a report of 5 consecutive sibling deaths in one family⁹⁶ (I cannot access a copy of this paper). A study of the Utah Population Database for the death certificate diagnosis of SIDS and their family relationships retrieved records of 1,706 cases of SIDS between 1975 and 2013⁹⁷. There were 10 pairs of affected siblings, 12 males and 8 females from a total of 45 siblings in the 10 families which ranged in size from 2-7 siblings per family. In addition, there were 3 pairs of second degree relatives, 13 pairs affected first cousins and 61 affected second cousins (23 pairs and 5 sets of three each) with a total of 113 who were related to another case of SIDS. The odds ratio of recurrence was 4.2, which is slightly lower than that reported in earlier studies of 5-6 reported in the USA and Norway^{98,99}.

There is evidence that the risk of a subsequent SIDS is greater given that the same risk and genetic factors occur in the same family. There have been cases when two deaths within a family, which were originally attributed to homicide, have been overturned and the deaths diagnosed as SIDS. I have asked a number of colleagues in the USA (Profs Fern Hauck, Rachel Moon, Carrie Shapiro-Mendoza and Carl Hunt and Betty McEntire for the American SIDS Institute) and none can recall more than 3 deaths in a family which were attributed to SIDS. There is a report from 1986 of 5 deaths in one family, which is quoted in Prof Byard's Chapter in his recent book on SIDS "SIDS Sudden Infant and Early Childhood Death: The Past, the Present and the Future"¹⁰⁰. The first infant was born preterm and out of wedlock and

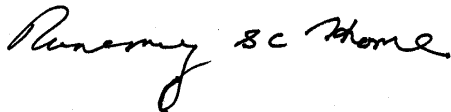
was found to have died of SIDS at 5 months. Subsequently the mother married another partner and two infants born at term died at 4 months and 6 weeks. In a marriage with another partner two further term born infants died at 13 months and 2 years of age. The last infant died despite sleep studies, respiratory stimulant therapy and 19 months of home apnoea monitoring. In terms of genetic risk factors this is interesting as there were three different fathers of the five infants.

Summary

None of the infants were found prone, born preterm or low birth weight or exposed to maternal smoking during pregnancy before or after birth, which are the major risk factors for SIDS. They were all sleeping in a separate room (with the exception of Sarah) rather than the parental bedroom and were not breast-fed, factors which are protective. All infants were in their own cot/bed and there was no evidence of bedding covering the face, so there is no evidence of accidental suffocation. Thus, the most common risk factors for SIDS were not present.

Long QT syndrome seems to have been discounted in all infants. However, recent advances in genetic testing and pathological analysis have now identified possible underlying factors, which could potentially combine with environmental factors to result in SIDS and could possibly explain the multiple deaths in one family.

Signed:

A handwritten signature in black ink that reads "Rosemary SC Horne". The signature is written in a cursive, flowing style.

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10 February 2019

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56. Neubauer J, Lecca MR, Russo G, et al. Post-mortem whole-exome analysis in a large sudden infant death syndrome cohort with a focus on cardiovascular and metabolic genetic diseases. *Eur J Hum Genet.* 2017;25(4):404-409.
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62. Kaji AH, Claudius I, Santillanes G, et al. Apparent Life-Threatening Event: Multicenter Prospective Cohort Study to Develop a Clinical Decision Rule for Admission to the Hospital. *Ann Emerg Med.* 2012.

63. Kahn A. Recommended clinical evaluation of infants with an apparent life-threatening event. Consensus document of the European Society for the Study and Prevention of Infant Death, 2003. *Eur J Pediatr.* 2004;163(2):108-115.
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86. Guillemineault C, Pelayo R, Leger D, Philip P. Apparent life-threatening events, facial dysmorphism and sleep-disordered breathing. *Eur J Pediatr.* 2000;159(6):444-449.
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94. Strehle E-M, Gray WK, Gopiseti S, Richardson J, McGuire J, Malone S. Can home monitoring reduce mortality in infants at increased risk of sudden infant death syndrome? A systematic review. *Acta Paediatr.* 2012;101(1):8-13.
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96. Diamond EF. Sudden infant death in five consecutive siblings. *IMJ Ill Med J.* 1986;170(1):33-34.
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Curriculum Vitae of: Rosemary Sylvia Claire HORNE

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Business address: The Ritchie Centre, Level 5 Monash Medical Centre,

246 Clayton Road, Clayton, Melbourne, Australia 3168

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EDUCATION:

- 1973-1976 Bachelor of Science in Zoology and Physiology, Massey University, New Zealand
- 1977-1979 Master of Science in Zoology (Hons), Massey University, New Zealand
- 1983-1989 PhD (part-time), Monash University, Melbourne
Thesis: Arousal from sleep in response to cardiovascular stimuli in newborn lambs
- 1991-1999 Bachelor of Letters (part-time), University of Melbourne
- 2017 Doctor of Science, Physiological studies during sleep. Monash University

CURRENT APPOINTMENTS:

- 2012 Professor
The Ritchie Centre, Hudson Institute of Medical Research (formerly The Monash Institute of Medical Research) and Department of Paediatrics, Monash University
- 2010 Deputy Director
The Ritchie Centre, Hudson Institute of Medical Research (formerly The Monash Institute of Medical Research) and Department of Paediatrics, Monash University

PREVIOUS APPOINTMENTS

- 1979-1980 Laboratory Assistant
Pathology Department, Ballarat Base Hospital, Ballarat
- 1980-1982 Biologist
Antarctic Division, Department of Science & Technology, Kingston
- 1982-1988 Research Officer / PhD Student
Centre for Early Human Development, Monash University, Melbourne

After completing my doctorate I worked part-time (0.5-0.8 EFT) combining my career with raising three children born in 1986, 1989 and 1993. I commenced full time work in 2004.

- 1988-1991 Senior Research Officer (0.5 EFT)
Microsurgery Research Centre, St Vincent's Hospital, Melbourne
- 1991-1992 Research Officer (0.5EFT)

Howard Florey Institute of Experimental Physiology and Medicine, University of Melbourne

- 1992-1995 Research Fellow (0.5EFT)
Deakin Institute of Nursing Research, School of Nursing, Deakin University
- 1995-1996 Research Fellow (0.6 EFT)
Department of Paediatrics, Monash University, Melbourne
- 1997-2002 Senior Research Fellow (0.8EFT)
Department of Paediatrics, Monash University, Melbourne
- 2003-2005 Senior Research Fellow and Senior Scientist
Ritchie Centre for Baby Health Research, Monash Institute of Reproduction and Development, Monash University
- 2005-2009 NHMRC Senior Research Fellow
Ritchie Centre for Baby Health Research, Monash Institute of Medical Research, Monash University
- 2006-2012 Associate Professor
Ritchie Centre for Baby Health Research, Monash Institute of Medical Research, Monash University
- 2008-2010 Scientific Director
Ritchie Centre for Baby Health Research, Monash Institute of Medical Research, Monash University
- 2010-2015 NHMRC Senior Research Fellow
The Ritchie Centre, Monash Institute of Medical Research, Monash University

NATIONAL AND INTERNATIONAL PROFILE

INVITED NATIONAL LECTURES

HORNE RSC. Arousal from sleep in newborn infants: relevance to Sudden Infant Death Syndrome. Australian Sleep Technologists Society, Melbourne. March 7, 2000.

HORNE RSC. Infant sleep research. Newborn Services, Monash Medical Centre 2000

HORNE RSC. Arousal from sleep in infants: relevance to Sudden Infant Death Syndrome. Department of Disability Studies, RMIT University, July 19, 2001.

HORNE RSC. To sleep or not to sleep? A question of arousal. Monash Medical Centre, Melbourne. November 2001.

HORNE RSC. Infant sleep studies. Newborn Services, Monash Medical Centre. June 14, 2002.

HORNE RSC. Infant sleep research. Department of Respiratory Medicine, Royal Children's Hospital, Melbourne. December 10, 2002.

HORNE RSC. Infant sleep research. Department of Respiratory Medicine, Monash Medical Centre, Melbourne. March 25, 2003.

HORNE RSC. Infant sleep reseach. Department of Newborn Services, Monash Medical Centre, Melbourne. October 17, 2003.

HORNE RSC. Breast feeding promoted protective arousal responses. Monash Medical Centre Midwives. Monash Medical Centre, Melbourne. 29 July 2004.

HORNE RSC. Hypoxic ventilatory and arousal responses in infants. Department of Respiratory Medicine, Monash Medical Centre, Melbourne. 17 August 2004.

HORNE RSC. Recent update in SIDS research. SIDS and KIDS annual general meeting. 1227 Malvern Road, Malvern, Melbourne. 23 August 2004.

HORNE RSC. Breast feeding and SIDS. Wheelers Hill Rotary Club, Mulgrave Melbourne. 24 August 2004.

HORNE RSC. Breast feeding promotes protective arousal responses. Victorian Branch Australasian Sleep Association, Alfred Hospital, Melbourne. 2 September 2004.

HORNE RSC. Breast feeding promotes protective arousal responses. Monash Medical Centre Midwives. Monash Medical Centre, Melbourne. 9 September 2004.

HORNE RSC. Safe sleeping promotes protective arousal responses. Kaarene Fitzgerald Public Lecture, October 13 2004, Monash Medical Centre, Melbourne

HORNE RSC. Do SIDS risk factors impair arousal pathways? National SIDS Council of Australia 13th Annual Confererence, Adelaide. 11 March 2005.

HORNE RSC. Safe sleeping promotes protective arousal responses in infants. Department of Physiology. University of Adelaide. 15 March 2005.

HORNE RSC. A new method of continuous blood pressure measurement: possibilites for OSA diagnosis? Department of Respiratory Medicine, Monash Medical Centre. 10 May 2005.

HORNE RSC. Monash University Advancing Women in Research Seminar. 1 June 2005.

HORNE RSC. Centre for Women's Health. Monash University. Research studies into infant sleep. 7 June 2005.

HORNE RSC. Monash Institute of Medical Research. To sleep, perchance to dream. 1 July 2005.

HORNE RSC. Breastfeeding, arousal and SIDS risk factors. Breastfeeding and babies: Asking questions looking for answers. Australian Lactation Consultant's Association Victorian Branch Meeting. 12 November 2005.

HORNE RSC. The circulation in infancy: effects of preterm birth. Healthy Start to Life Research Initiative. Monash University 14 July 2006.

HORNE RSC. Sleeping like a baby. Department of Anatomy, Monash University 13 October, 2006.

HORNE RSC. 25 years of SIDS research: where are we in 2007? Victorian Institute of Forensic Medicine, 20 September 2007

HORNE RSC. 25 years of SIDS research: where are we in 2007? Prince Henry's Institute of Medical Research 30 October 2007.

HORNE RSC A sleeping child is a good child. Southern Health Medical Research Week May 2008.

HORNE RSC, NIXON GM. Paediatric sleep studies at Monash University: 2009 and beyond. University of Adelaide 19 March 2009.

HORNE RSC Cardiovascular effects of sleep disordered breathing in children. Plenary Speaker 21st Annual Meeting of the Australasian Sleep Association, Melbourne 8-10 October 2009.

HORNE RSC Safe sleep in 2009. SIDS Victoria Grief Counselors 25 November 2009.

HORNE RSC Update on Paediatric Sleep Research. Department of Paediatrics, Monash Medical Centre 1 September 2010.

HORNE RSC Update on Paediatric Sleep Research. Department of Respiratory Medicine, Monash Medical Centre 26 October 2010.

HORNE RSC. The Physiological Basis of the Prone Sleeping Risk. Kaarene Fitzgerald Public Lecture. Melbourne, Australia 14th June 2011.

HORNE RSC Is sleep disordered breathing a risk for cardiovascular disease in children? Plenary Symposium Sleep and the Heart: Reciprocal Interactions. 23rd Annual Scientific Meeting of the Australasian Sleep Association, Sydney 27-29 October 2011.

HORNE RSC. Pediatrics Year in Review: The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.

HORNE RSC Cardiovascular vulnerability in the neonate – SIDS. Sansom Institute for Health Research Symposium Transition to postnatal life in the vulnerable fetus. 12 December 2011.

HORNE RSC Cardiovascular effects of sleep disordered breathing in children – is it a matter of time? The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA), Darwin October 10-13 2012.

HORNE RSC Infant Safe Sleeping. Victorian Department of Health Maternity and Newborn Clinical Network Conference 22 October 2012, Melbourne.

HORNE RSC Should we be worried about childhood snoring? The Royal Children's Hospital Campus Research and Education Week. 26 October 2012, Melbourne.

HORNE RSC Should we be worried about paediatric central sleep apnoea? Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. 9-11 October, 2014, Perth, Australia.

HORNE RSC BIGGS SN The Ritchie Centre Infant and Child Health Theme: Why do we study sleep in children? Paediatric Grand Rounds, Monash Health, Melbourne 23 April 2015.

INVITED INTERNATIONAL LECTURES

HORNE RSC. Provoked arousal in infants: other stimuli. Arousal and awakening in human development: Definitions, Criteria, Methods Workshop. World Federation of Sleep Research Societies Third International Congress Dresden Germany, October 5-9 1999.

HORNE RSC. Paediatric sleep. Department of Paediatrics, University of Lund, Sweden. October 1999.

HORNE RSC. Infant sleep research. Department of Pediatrics, Columbia University, New York, USA. November 8, 2000.

HORNE RSC. Arousability in at augmented risk and pathological infants. Symposium on Arousal and Awakening in Early Ontogenesis. World Federation of Sleep Research Societies 4th Congress, Punta del Este Uruguay October 21-26 2001.

HORNE RSC. To sleep or not to sleep? A question of arousal. Department of Physiology, University of Bologna, Bologna, Italy. September 6, 2002.

HORNE RSC, PARSLOW PM, FERENS D, BANDOPADHAYAY P, OSBORNE A, WATTS A-M, CRANAGE SM, ADAMSON TM. Arousal responses and risk factors for Sudden Infant Death Syndrome. International Symposium on Arousals in Children. Tokyo Women's Medical University, Japan. October 6-7, 2002.

FRANCO P, VAN de BORNE P, CHABANSKI S, SAWAGUCHI T, HORNE RSC, VERHEULPEN D, GROSWASSER J, KAHN A. Physiological relationship between autonomic reactions and arousals in infancy. International Symposium on Arousals in Children. Tokyo Women's Medical University, Japan. October 6-7, 2002

HORNE RSC. Infant arousal from sleep: relationship to Sudden Infant Death Syndrome. Department of Paediatrics, Nagoya City University, Nagoya, Japan. October 10, 2002.

HORNE RSC, PM PARSLOW, TM ADAMSON, R HARDING. Consistency and consequences of infant arousability. 13th meeting of the European Pediatric Sleep Club. Rome 22-23 November 2003.

HORNE RSC. Safe sleeping promotes protective arousal responses. Sleeping arrangements, context, biology and culture: Beyond the "bedsharing debate". SIDS International

Conference, Edmonton, Canada, July 2-6, 2004.

HORNE RSC. Focus group on Cardio-respiratory control in infant sleep – Recent Developments, Major Questions, New Controversies. World Federation of Sleep Research and Sleep Medicine Societies, New Delhi, September 22-26, 2005.

HORNE RSC. Nicotine exposure and arousals. Symposium on Hypoxia and arousal mechanisms. International Pediatric Sleep Association Berlin, Germany, 2005.

HORNE RSC. Development of infant ventilatory and arousal responses to hypoxia. Arousal mechanisms, The Andre Kahn Memorial Symposium. 9th SIDS International Conference, Yokohama, Japan, 1-4 June, 2006.

HORNE RSC. Sleeping like a baby. Department of Neurobiology, David Geffen School of Medicine UCLA, Los Angeles, California USA, 29 January 2007.

HORNE RSC. Sleeping like a baby. Stanford Research International Institute, Palo Alto, San Francisco, California USA, 31 January 2007.

HORNE RSC, YIALLOUROU SR, WALKER AM. Development of cardiovascular control in infants. Symposium Paediatric Sleep: Development of Cardiovascular Control in Infants and Children – New Methods of Assessment and Issues. 5th Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, Australia, 2-6 September 2007.

HORNE RSC A sleeping child is a good child. Department of Psychology, Second University of Naples, Casserta, Italy, 18 June 2007.

HORNE RSC. Paediatric sleep studies at Monash University: 2009 and beyond. University of Michigan, Ann Arbor USA. 30 September 2009.

HORNE RSC Sleep studies in infants and children: what they can tell us about normal physiology and disease. Belgian Sleep Society, Queen Fabiola Children's Hospital, Brussels, Belgium 13 January 2010.

HORNE RSC Paediatric Sleep studies at Monash University. University of Picardie, Amiens, France. 19 January 2010.

HORNE RSC Preterm birth: consequences for the infant. Plenary Speaker. 14th Annual Congress of the Perinatal Society of Australia and New Zealand. 28-31 March 2010 Wellington, New Zealand.

HORNE RSC What can we learn about SIDS from physiological studies in healthy infants? International Stillbirth Alliance and International Society for the Study and Prevention of Infant and Perinatal Death Joint Conference, 8-10 October 2010, Sydney Australia.

HORNE RSC Sleep in infancy – understanding the risks for SIDS. 22nd Annual Scientific Meeting of the Australasian Sleep Association 21-23 October 2010, Christchurch New Zealand.

HORNE RSC Autonomic control during sleep and risk factors for SIDS. Congress of the International Pediatric Sleep Association Joint Meeting with the Pediatric Sleep Medicine Conference 3-5 December 2010, Rome, Italy.

HORNE RSC Responding to stressors: how do healthy infants respond? Congress of the International Pediatric Sleep Association Joint Meeting with the Pediatric Sleep Medicine Conference 3-5 December 2010, Rome, Italy.

HORNE RSC, WONG FY, YIALLOUROU SR. Mechanisms for the Protective Effects of Dummies. Foundation for the Study of Infant Deaths (FSID). Glasgow, United Kingdom, September 2011.

RICHARDSON HL, HORNE RSC. Safe Sleeping: Does Swaddling Improve Infants Sleep Without Decreasing Arousability. Scottish Cot Death Trust. Glasgow, United Kingdom, 7th September 2011.

HORNE RSC, WONG FY, YIALLOUROU SR. A Mechanism for the Increased Risk of the Sudden Infant Death Syndrome in Infants Sleeping in the Prone Position. Scottish Cot Death Trust. Glasgow, United Kingdom, 7th September 2011.

HORNE RSC. Understanding the Mechanisms for The Sudden Infant Death Syndrome: What We Can Learn From Infant Sleep Studies. World Sleep 2011. Kyoto, Japan, 16-20th October 2011.

HORNE RSC, WALTER LM, NIXON GM, DAVEY MJ, O'DRISCOLL DM, TRINDER J. Sleep Disturbance in Pre-School Children with Obstructive Sleep Apnoea Syndrome. World Sleep 2011. Kyoto, Japan, 16-20th October 2011.

HORNE RSC, RICHARDSON HL. The Importance of Arousal from Sleep in SIDS. World Sleep 2011. Kyoto, Japan, 16-20th October 2011.

HORNE RSC, RICHARDSON HL, WALKER AM. Does Sleep Position Affect Arousal from Sleep Pathways in Infants Born Preterm? World Sleep 2011. Kyoto, Japan, 16-20th October 2011.

HORNE RSC. Behavioural and Neurocognitive Effects of Sleep Disordered Breathing in Children – Is it a Matter of Time? Mortimer D Sackler Winter Conference in Developmental Psychobiology. Hawaii, United States of America, 5-8th January 2012.

HORNE RSC. The role of the Physiologist. SIDS and Infant Survival SIDS/SUDI Workshop: SIDS/SUDI Diagnostic Shift. 2012 International Conference on Stillbirth, SIDS and Infant Survival, Baltimore 4-7 October, 2012

HORNE RSC Safe sleeping – why is the prone sleeping position a risk for SIDS? Plenary speaker International Paediatric Sleep Association, Manchester UK. December 5-7 2012.

HORNE RSC Understanding the mechanisms of the sudden infant death syndrome. Invited talk Neonatology Research Seminar Columbia University, New York 9 May 2013.

HORNE RSC Mechanisms for the protective effects of dummies. Lullaby Trust, London, England, September 2013.

HORNE RSC From physiology to epidemiology in SIDS. The 2014 International Conference on Stillbirth, SIDS and Baby Survival: Global Action needed! Amsterdam, the Netherlands, 18-21 September 2014.

HORNE RSC We sleep them prone in the NICU – but what does this really do to a preterm infant's physiology? Eric Burnard Memorial Trust 4th Neonatal Update 23 October 2014, Wellington, New Zealand.

RSC The consequences of sleep disordered breathing are age dependent – should we be treating earlier? XIIIth Oxford Breathing meeting Respiratory and Cardiovascular October 26-31 2014, Sydney, Australia.

HORNE RSC What happens to a child with untreated obstructive sleep apnoea? 19th Congress of Asian Pacific Society of Respirology, Bali, Indonesia, 13-16 November 2014.

HORNE RSC Sleep position and cardiovascular control. 3rd International Pediatric Sleep Association Congress, Porto Alegre, Brazil, 3-5 December 2014.

HORNE RSC National Institute of Child Health and Human Development Sudden Unexpected Death in Fetal Life through Early Childhood: New Opportunities Washington DC, USA, 23-34 March 2015.

HORNE RSC Paediatric Sleep Research DownUnder Pediatric Sleep Group, Children's Hospital of Philadelphia, Philadelphia USA, March 25 2015.

HORNE RSC Preterm infants and SIDS. 1st Asian Paediatric Pulmonology Society Annual Congress and 18th Hong Kong Society of Paediatric Respirology Annual Scientific Meeting, Hong Kong 3-5 October 2015.

HORNE RSC Long term morbidities of childhood sleep disordered breathing. 1st Asian Paediatric Pulmonology Society Annual Congress and 18th Hong Kong Society of Paediatric Respirology Annual Scientific Meeting, Hong Kong 3-5 October 2015.

HORNE RSC Treatment for childhood OSA – when and what severity? 1st Asian Paediatric Pulmonology Society Annual Congress and 18th Hong Kong Society of Paediatric Respirology Annual Scientific Meeting, Hong Kong 3-5 October 2015.

HORNE RSC Cardiovascular consequences of sleep disordered breathing in infants and children. Round Table Discussion: What's new in cardiovascular control during sleep: from basic research to clinical implications. World Sleep 2015 7th World Congress of the World Sleep Federation, Istanbul, Turkey 31 October-3 November 2015.

HORNE RSC Chair Symposium: Complications associated with childhood obstructive sleep apnoea, are they reversible? Longitudinal effects of treatment of sleep disordered breathing on the cardiovascular system and daytime functioning. 4th International Pediatric Sleep Association Congress, Taipei, Taiwan 10-13 March 2016.

HORNE RSC Chair Symposium: Sleep in infants and young children – effects on development and cognition. Should we be concerned about periodic breathing in infancy? 4th International Pediatric Sleep Association Congress, Taipei, Taiwan 10-13 March 2016.

HORNE RSC Year in Review: Sudden Unexpected Death in Infancy. BMedSc Honours Taipei, Taiwan 10-13 March 2016.

HORNE RSC Chair Symposium: The consequences of apnoea in infancy and childhood: effects on the cardiovascular system and daytime functioning. Is current treatment effective for resolving consequences of paediatric OSA? 23rd Congress of the European Sleep Research Society, Bologna, Italy 13-16 September 2016

HORNE RSC Invited speaker Symposium Cardiovascular control during sleep: of mice and men. Cardiovascular consequences of apnoeas and snoring during sleep in infants and children. 23rd Congress of the European Sleep Research Society, Bologna, Italy 13-16 September 2016

HORNE RSC Invited speaker Symposium: Cardiorespiratory interaction and the role of sleep, arousal and hypoxia: From inutero to adulthood and bench to bedside. Cardiovascular consequences of sleep disordered breathing in infants and children. 28th Annual Scientific meeting of the Australasian Sleep Association Adelaide 20-22 October, 2016.

HORNE RSC Invited speaker Sleep studies in infants and children: an update on DownUnder research. Sleep Medicine Grand Rounds Rainbow Babies Hospital and Case Western Reserve University School of Medicine Cleveland Ohio. 30 May 2017.

HORNE RSC Invited speaker Sleeping like a baby - but should we be worried? Boston Children's Department of Neonatology Research Seminar. 1 June 2017.

HORNE RSC Invited speaker Sleeping like a baby - but should we be worried? Sleep Medicine Grand Round Cincinnati Children's Hospital Medical Centre, Cincinnati Ohio. 9 June 2017.

HORNE RSC Chair symposium The importance of sleep in children around the world: Factors which affect outcomes. World Sleep 2017, Prague, Czech Republic. 9 October 2017.

HORNE RSC. Invited speaker Symposium: Infant sleep: Interventions for obesity prevention and problematic sleep, and safe sleep practices. Safe sleeping for preterm infants. Australasian Sleep Association Sleep Downunder 2017. Auckland New Zealand, 25-28 October 2017.

HORNE RSC Invited speaker Symposium Development of sleep in the first year of life. Longitudinal effects of apnoea and periodic breathing on cerebral oxygenation – a risk for neurodevelopmental impairment? 5th International Pediatric Sleep Association Congress, Paris France, April 27-29, 2018.

HORNE RSC Invited speaker Symposium Effects of Sleep disordered breathing on blood pressure and its regulation: evidence from preschoolers to adolescents. Autonomic impact of sleep disordered breathing in preschool children. 5th International Pediatric Sleep Association Congress, Paris France, April 27-29, 2018.

HORNE RSC Invited speaker Symposium Preceptions of sleep and the consequences of sleep disordered breathing in children: an international perspective. Relationship between regional brain tissue changes and outcomes in children with sleep disordered breathing. 5th International Pediatric Sleep Association Congress, Paris France, April 27-29, 2018.

HORNE RSC Plenary speaker. Is sleeping our preterm babies prone whilst in the neonatal unit good for their brains? 2018 International Conference on Stillbirth, SIDS and Baby Survival. Glasgow, Scotland 7-9 June 2018.

HORNE RSC. Sleeping like a baby – but should we be worried? Paediatric Grand Rounds Evelina Children’s Hospital, London England 28 June, 2018.

JOURNAL EDITORIAL BOARD MEMBERSHIP

2005-present Journal of Sleep Research

2008-present Sleep Medicine

2012 -present Sleep

EXECUTIVE POSITIONS - NATIONAL

Member Australasian Sleep Association Research Committee 2007-present

Member Australasian Sleep Association Conference Committees 2009, 2010 and 2011

Member International Society for the Study and Prevention of Infant Death Conference Committee 2010, Chair Scientific Programme Committee

Member Perinatal Society of Australia and New Zealand Conference Committee 2010.

Australasian Sleep Association Sleep Trials Network (Multicentre trial in paediatric behavioural sleep health)

Chair Australasian Sleep Association Paediatric Special Interest Group 2011-2015

Red Nose National Scientific Advisory Group 2012-present

Chair Red Nose National Scientific Advisory Group 2015-2018

EXECUTIVE POSITIONS - INTERNATIONAL

Executive Member and Chairperson Physiology working group of the International Society for the Study and Prevention of Infant Death 2008-present

Member International Society for the Study and Prevention of Infant Death conference committees 2014, 2016, 2018 and 2020.

Executive Member and Treasurer World Federation of Sleep Research and Sleep Medicine Societies 2008-2012

Executive Member of the International Pediatric Sleep Association 2008-present, elected secretary 2016.

Member International Pediatric Sleep Association conference committees 2014, 2016 2018 and 2020.

PERSONAL SCIENTIFIC AWARDS

The Helgi Kristbjarnarson’s award for outstanding scientific presentation at the 18th Congress of the European Sleep research Society, Innsbruck September 12-16, 2006.

Monash University Vice Chancellor’s Award for Excellence in Honours Supervision 2011. Special Commendation.

Distinguished Achievement Award, for contributions to infant and paediatric sleep medicine research and dedication to the training and development of early career sleep scientists. Australasian Sleep Association, 2014.

Hudson Institute of Medical Research Certificate of Achievement for outstanding service to postgraduate student leadership, 2015.

Australasian Sleep Association World Sleep Travel Award 2017.

International Society for the Study and Prevention of Infant Death Distinguished Researcher Award for outstanding contributions to SIDS Research, 2018

VISITING PROFESSOR INVITATIONS

At the invitation of Professor Andre Kahn Paediatric Sleep Unit, University Children's Hospital Queen Fabiola, Free University of Brussels, Belgium. June-July 2001.

At the invitation of Professor Veronique Bach Périnatalité and Risques Toxiques, Facultie de Médecine, Université de Picardie Jules Verne, Amiens, France. December 2009 – January 2010.

POSTGRADUATE AND UNDERGRADUATE TEACHING

PhD STUDENTS SUPERVISED

Ms Chamali Egodagamage. Development of sleep patterns in the newborn infant. 1999-2001 (candidature withdrawn by university for unsatisfactory progress).

Mr Peter Parslow. Arousal and ventilatory responses to hypoxia in newborn infants. 1999-2002.

Dr Rita Tulhadar. Development of cardiorespiratory control in infants. 2000-2003.

Ms Stephanie Yiallourou. Cardiovascular control in the prone sleeping position. Commenced 2004 (part-time) Completed February 2008.

Ms Heidi Richardson. Arousal pathways and risk factors for SIDS. 2005-2009

Mr Joel Yang. Use of spectral analysis of EEG for the determination of sleep quality in children with sleep disordered breathing. 2005-2009

Ms Nicole Witcombe. Development of Cardiovascular Control During Sleep in Human Infants After Preterm Birth. 2006-2009

Mr Robert Bourke Doctoral student in Psychology, University of Melbourne. Neurobehavioural and Neurocognitive Function in Children with Sleep Disordered breathing. 2005 -2008.

Ms Angela Jackman PhD student in Psychology, University of Melbourne. Neurobehavioural and Neurocognitive Function in Pre-School Children with Sleep Disordered breathing .Commenced 2006 Completed 2011.

Dr Clare Collins PhD student University of Melbourne. Prospective randomised controlled trial of High Flow Nasal cannulae vs Nasal CPAP in preterm infants less than 32 weeks gestation. Commenced June 2009 Completed 2012.

Ms Anna Vlahandonis (nee Kourbasis). Effectiveness of sleep disordered breathing treatment in children. Commenced August 2009 Completed 2013.

Ms Lauren Nisbet. Effects of sleep disordered breathing on cardiovascular control in preschool children. MBBS/PhD Commenced January 2010 Completed 2013.

Ms Karinna Fyfe Could sleeping in the prone position result in reduced cerebral oxygenation in preterm infants: implications for the sudden infant death syndrome. MBBS/PhD commenced January 2011 Completed March 2014

Dr Moya Vandeleur. Sleep disturbances in children with cystic fibrosis. Commenced March 2011 (part-time), Submitted February 2018.

Ms Danika Ryan (nee Vojisavljevic) Co-supervisor. The effect of preterm birth and intrauterine growth restriction of renal development. Commenced March 2013, Completed December 2016.

Ms Knarik Tamanyan Measuring cerebral oxygenation in children with sleep disordered breathing. Commenced March 2014

Dr Emily Cohen Effects of intrauterine growth restriction on cardiovascular control in preterm infants. Commenced March 2014, Completed March 2017.

Ms Kelsee Shepherd Effects of sleeping position on cerebral oxygenation in preterm infants. Commenced February 2016.

Ms Poornima Wijayarathne Light therapy to improve sleep and quality of life in children with acute lymphoblastic leukaemia Commenced February 2017

MASTERS STUDENTS SUPERVISED

Ms Rebecca Aitken. Master of Education and Child Psychology 2001-2002. Correlation between infant temperament and sleep patterns over the first year of life. Honours H1 completed 2002.

Dr Farhat Bashir. Master of Reproduction and Development. Blood pressure changes in children with sleep disordered breathing. Completed December 2006.

Ms Michelle Ng Master of Reproduction and Development. Cardiovascular Assessment to Define Clinically Significant Sleep Disordered Breathing in Children. Completed December 2006.

Ms Nicole Virginis Master of Science in Sleep Medicine, University of Sydney. A comparison of methods for scoring respiratory events in paediatric participants. Completed 2006.

Ms Blessy Thomas Master of Biomedical Science. Obstructive sleep apnoea in children born preterm. H1 2017.

HONOURS STUDENTS SUPERVISED

Ms Kristy Mitchell, BSc Honours student. Arousal from sleep in the preterm infant: The effects of apnoea of prematurity. Honours H1 Completed October 1996.

Ms Kylie Ch'ng, BSc Honours student. Arousal from sleep to an air-jet stimulus in newborn lambs. Honours H1A Completed October 1996.

Mr Andrew Osborne, BMedSc student. Arousal from sleep in infants: effects of respiratory illness. Honours H1. Completed November 1998.

Ms Anne-Maree Watts, B Sc Honours Student. Arousal from sleep in infants: effects of sleeping position. Honours H2A Completed October 1998.

Ms Dorota Ferens, BSc Honours Student. Arousal from sleep in infants: effects of sleeping position and maternal smoking. Honours H2A completed 1999

Ms Pratiti Bandopadhyay. BMedSc student. Arousal from sleep in premature infants: effects of sleeping position and maternal smoking. Honours H1 completed 1999.

Mr Kevin So. BMedSc student. Development of infant sleep over the first year of life. Honours H1 completed 2002.

Ms Melissa Sung. BMedSc student. Development of infant sleep: effects of neonatal environment. Honours H1 completed 2002.

Ms Sarah Scott. BBiomedSc Honours student. Arousal and ventilatory responses to hypoxia in Preterm Infants. Honours H1 completed 2002.

Ms Jenika Jayamaha. BSc Honours student. Development of cardiovascular control during sleep in infants after preterm birth Honours H2A completed 2003.

- Ms Nisha Makkar.** B Biomed Sc Honours student. Cardiovascular control during sleep after preterm birth. Honours H1 2004
- Ms Heidi Richardson.** BSc Honours student. Maturation of the hypoxic ventilatory response during sleep in infants. Honours H1 2004.
- Ms Nicole Smith** BSc Honours student. Development of Cardiovascular Control During Sleep in Human Infants After Preterm Birth. Honours H2A 2005.
- Mr Matthew Southwell** B Biomed Sc Honours Student. Assessment of Autonomic Control in Preterm Infants and a Comparison of Blood Pressure Measuring Techniques. Honours H1 2006.
- Ms Vera Golder** BMed Sc Honours Student Assessment of Autonomic cardiovascular Control in Preterm Infants in the First Days of Life. Honours H1 2007
- Ms Shi Wong,** B Biomed Sc Honours Student. Cardiovascular assessments during Sleep in Normal Children. Honours H1 2007
- Ms Lalitha Krishnan,** B Behav Neurosci Honours Development of Cardiovascular Control in Full Term Infants: Implications for Sudden Infant Death Syndrome Honours H2A 2008.
- Ms Leona Singam,** BSc Honours Assessment of autonomic cardiovascular control in primary school children with sleep disordered breathing. Honours H1 2008
- Ms Michele Hepponstall** B Biomed Sc Honours Student. Autonomic Cardiovascular Control in Preterm neonates. Honours H1 2008
- Ms Alicia Dymoski** B Behav Neurosci Honours Student The effects of sleep state, sleeping position and postnatal age on heart rate, blood pressure and cerebral oxygenation during sleep in infants. Honours H1 2009
- Ms Lauren Nisbet** BMed Sc student Effects of sleep disordered breathing on cardiovascular control in preschool children. Honours H1 2010
- Ms Pallavi Prathivadi** BMed Sc student Why are dummies protective for SIDS? Honours H1 2010
- Ms Dharini Sivakumar** BMed Sc student Exposure to beta-glucan in house dust and asthma. H2A 2010
- Ms Karinna Fyfe** BMed Sc Could sleeping in the prone position result in reduced cerebral oxygenation in preterm infants: implications for the sudden infant death syndrome. Honours H1 2011.
- Ms Hannah Poole** B Bio Med Sc Honours The effects of dummy sucking during sleep on autonomic cardiovascular control: Implication for Sudden Infant Death Syndrome. Honours H1 2011.
- Ms Shanelle Andrew** B Bio Med Sc Honours the effect of dummy use on infant arousability: a possible protective mechanism against the sudden infant death syndrome. Honours H1 2011.
- Ms Jessica Gooden** BA (Psychology) Honours The Impact of Sleep-Disordered Breathing on Higher Cognitive Functioning During Childhood Honours H1 2011.
- Ms Emma Owen** BA (Psychology) Honours Time Course of Slow Wave Activity in Children with Sleep Disordered Breathing: A Possible Mechanism for Observed Behavioural Deficits? Honours H1 2011.
- Ms Chloe Lappin** BSc Physiology Honours Sleep disordered breathing and the homeostatic regulation of sleep: effects on executive function. H1 2013
- Ms Anjalee Athukoralage** BBioMedSc Changes in Cardiovascular Control with Dummy Use in Preterm Infants, Honours H2A 2013
- Mr Vibhav Damodaran** BBioMedSc Can Treatment Reverse Changes in Cardiovascular Parameters That Were Altered By Sleep Disordered Breathing In Pre-School Children? Honours H1 2013

Ms Lucy Dick BSc Physiology The Effect of Treatment on Acute Cardiovascular Changes Following Respiratory Events in Pre-School Children With Sleep Disordered Breathing H2A 2014

Mrs Elizabeth Senn BSc Psychology Long Term Effect of Treatment for Sleep Disordered Breathing on Cognition and Behaviour in Young Children H1 2014

Ms Elicia Toon BSc Psychology Validation of Commercial Sleep Devices to measure Sleep Duration and Quality in Children H1 2014

Dr Genevieve Shandler BMedSc The effects of obesity on the cardiovascular system in children with obstructive sleep apnoea. Honours H1 2016.

Ms Natalie Dassanayake BSc Honours The effects of sleep position on sleep disordered breathing in children. Honours H1 2016.

Ms Bianca Arena BBiomedSc Honours Sleep in children who were born intrauterine growth restricted. Honours H1 2016.

Ms Amanda Perera BBiomedSc Honours Are sleep spindles associated with neurocognitive deficits in children with sleep disordered breathing? Honours H1 2017.

Mr Samuel Kaye BSc Honours The consequences of respiratory instability on cerebrovascular and cardiovascular physiology in preterm infants 2018.

Mr Leon Siriwardhana BMedSc Honours 2018

Mr Quillan Chan BMedSc Honours 2018

Ms Aimy Tran BMedSc Honours 2018

Ms Julia Vasthi BMedSc Honours 2018

INTERNATIONAL MEDICAL RESEARCH ELECTIVE STUDENTS

Ms Joke-Afke van der Zee. Medical Student University of Maastricht, The Netherlands, research elective. Heart rate variability in preterm infants. April-August 1998.

Ms Helen Waterworth. Medical Student University of Leeds, research elective. Development of sleep spindles in preterm infants. August-September 1998.

Ms Irma Pernot. Medical Student University of Maastricht, The Netherlands, research elective. Changes in heart rate after trigeminal air-jet stimulation in healthy premature infants and premature infants with a history of apnoea and bradycardia. A longitudinal study. 1999.

Ms Marjan Verbeek Medical student Leiden University, The Netherlands, research elective. August 2005 – February 2006

Ms Herlina Harkim Medical student Vrije University, The Netherlands, research elective. September - December 2005

Ms Sio Ming Oei Medical student Radboud University, The Netherlands, research elective. July-October 2007

Ms Frederieke Weehuizen 4 February – 22 May 2009 Medical student University of Amsterdam, The Netherlands.

Ms Ramona Schlenker Medical student 3 August – 1 October 2009. Biomedical Science student Julius-Maximilians University, Wuerzburg, Germany.

Ms Henriette Merk Masters Degree Student Pharmaceutical Science Ludwig-Maximilians-University Munich Germany 4 March – 1 June 2011.

Ms Pamela Browne Medical Student University of Maastricht, The Netherlands, research elective 18 July – 16 November 2011.

Ms Emily Cohen Medical Student University of Maastricht, The Netherlands, research elective October 2011 – February 2012.

Ms Milou Muntinga Medical Student University of Maastricht, The Netherlands, research elective November 2013 - April 2014.

Ms Christianna Zeldenrust Medical Student University of Maastricht, The Netherlands, research elective March 2014 - August 2014

Ms Natascha Cikor Medical Student University of Maastricht, The Netherlands, research elective March 2014-August 2014

Ms Eline Van Breevoort Medical Student University of Maastricht, The Netherlands, research elective August 2014-December 2014

Ms Annie Fung Medical student Chinese University of Hong Kong, China research elective April-May 2016.

Mr James Hooi Medical student Chinese University of Hong Kong, China research elective April-May 2017.

Ms Isabelle Rozier Medical Student Jules Vern Univeristy of Picardie, Amiens, France. June-July, 2017.

Ms Tracy Wong Chui Hang Medical student Chinese University of Hong Kong, China research elective April-May 2018.

Mr Martin Chan Medical student Chinese University of Hong Kong, China research elective April-May 2018.

GRADUATE DIPLOMA IN REPRODUCTIVE SCIENCE LITERATURE REVIEW SUPERVISOR

Ms Danielle Spencer, MReprodSci student. Literature Review: Historical background to the prone position and SIDS. May-June 1998.

Ms Bashong Chen, Effects of maternal cigarette smoking on the preterm infant. May-June 1999.

Ms Emily Shields, Modifiable risk factors involved in Sudden Infant Death Syndrome. May-June 2001.

Ms April Dacumos, Co-sleeping and Sudden Infant Death Syndrome. May-June 2002.

UNDERGRADUATE TEACHING

Monash University BME 3082 The Physiology of Sleep

Monash University GRS 4103 The Sudden Infant Death Syndrome

Monash University GRS 4103 Development of Sleep

STUDENT AWARDS

Peter Parslow. Best Student presentation at 15th National Workshop on Fetal and Neonatal Physiology. Canberra, 12-13 March 2001.

Peter Parslow. Anne Elizabeth Surratt Young Investigator Award at the 8th International Symposium on Sleep and Breathing. Reykjavik, Iceland May 31-June 2 2002. \$US1200.

Stephanie Yiallourou. Best first year PhD student presentation. Institute of Reproduction and Development, 2004.

Heidi Richardson. Best first year student presentation. 19th National Workshop on Fetal and Neonatal Physiology. Adelaide, 12-13 March 2005.

Stephanie Yiallourou. New Investigator Award. 18th Annual Scientific Meeting of the Australasian Sleep Association. Gold Coast, 7-9 October 2005.

Stephanie Yiallourou. New Investigator Award. 10th Annual Congress Perinatal Society of Australia and New Zealand. Perth, 3-6 April 2006.

Nicole Witcombe Best presentation Fetal and Neonatal Physiology Meeting Rottneest Island, 7-8 April 2006.

Michelle Ng. Best poster presentation. 19th Annual Scientific Meeting of the Australasian Sleep Association. Perth, 5-7 October 2006.

Michelle Ng. Travel Grant. 19th Annual Scientific Meeting of the Australasian Sleep Association. Perth, 5-7 October 2006.

Michelle Ng. Student Investigator Award, Southern Health Medical Research Week April 17-19, 2007

Heidi Richardson Harold Mitchell Scholarship, 2007

Heidi Richardson Trainee Travel Award 5th Congress of the World Federation of Sleep Research and Sleep Medicine Societies, 2-6 September, 2007.

Stephanie Yiallourou Trainee Travel Award 5th Congress of the World Federation of Sleep Research and Sleep Medicine Societies, 2-6 September, 2007.

Nicole Witcombe Trainee Travel Award 5th Congress of the World Federation of Sleep Research and Sleep Medicine Societies, 2-6 September, 2007.

Nicole Witcombe Scientific Merit Award 5th Congress of the World Federation of Sleep Research and Sleep Medicine Societies, 2-6 September, 2007.

Nicole Witcombe New Investigator Best Scientific Presentation Award 5th Congress of the World Federation of Sleep Research and Sleep Medicine Societies, 2-6 September, 2007.

Nicole Witcombe New Investigator Award Best Basic Science Presentation 12th Annual Congress Perinatal Society of Australia and New Zealand, 20-23 April, 2008

Heidi Richardson ISPID Travel Grant for attendance at the SIDS 10th International Conference, 23-26 June, UK, 2008

Nicole Witcombe ISPID Travel Grant for attendance at the SIDS 10th International Conference, 23-26 June, UK, 2008

Michele Hepponstall Best student poster presentation. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.

Nicole Witcombe First prize for best third year PhD presentation Monash Institute of Medical Research Postgraduate Student Symposium 1 December 2008.

Heidi Richardson Second prize for best fourth year PhD presentation Monash Institute of Medical Research Postgraduate Student Symposium 1 December 2008.

Heidi Richardson New Investigator Award, 21st Annual Meeting of the Australasian Sleep Association 2009.

Nicole Witcombe Best Student Presentation Healthy Start to Life Research Initiative Scientific Conference, Monash University 2009.

Nicole Witcombe Monash Institute of Medical Research Annual Student Symposium, best 4th year student presentation 2009.

Angela Jackman Childhood Sleep Disorders and Development Section Investigator Award at the Associated Professional Sleep Societies (USA) Meeting 2010.

Stephanie Yiallourou Best Poster presentation, Southern Health Medical Research Week, May 2010.

Stephanie Yiallourou ISPID New Investigator Award ISA and ISPID Joint Conference, Sydney 2010.

Lauren Nisbet New Investigator Award, 23rd Annual meeting of the Australasian Sleep Association October 2011.

Karina Fyfe New Investigator Award Best Presentation Neonatology 17th Congress of Asian and Oceania Perinatal Societies and 16th Congress of the Perinatal Society of Australia and New Zealand March 2012.

Lauren Nisbet Heart Foundation Travel Award 2012 \$2,000

Lauren Nisbet American Thoracic Society Travel Award 2012 \$2,000

Lauren Nisbet Childhood Sleep Disorders and Development Section Investigator Award at the Associated Professional Sleep Societies (USA) Meeting 2012.

Karinna Fyfe New Investigator Award, 24th Annual meeting of the Australasian Sleep Association October 2012.

Anna Vlahandonis Faculty of Medicine Nursing and Health Sciences Mollie Holman Medal for best PhD 2013.

Karinna Fyfe Monash University David Healy Award for Medical Student PhD Research, December 2014.

Lauren Nisbet The World Association of Sleep Medicine Elio Lugaresi Award for Education, 2015.

Emily Cohen Best PhD presentation 30th annual meeting of the Fetal and Neonatal Workshop of Australia and New Zealand (FNWANZ, a sub-committee of the PSANZ) Magnetic Island, May 2016.

POSTDOCTORAL STUDENT AWARDS AND FELLOWSHIPS

Dr Flora Wong The Kathleen Tinsley Postdoctoral Fellowship 2008-2010.

Dr Stephanie Yiallourou The Kaarene Fitzgerald Postdoctoral Fellowship 2009-2011.

Dr Denise O'Driscoll The Allen and Hanbury TSANZ Postdoctoral Fellowship 2009-2010.

Dr Lisa Walter Harold Mitchell Postdoctoral Travel Scholarship \$5000 2009.

Dr Heidi Richardson NHMRC CJ Martin Biomedical Training Fellowship 2010-2013

Dr Stephanie Yiallourou International Pediatric Sleep Association New Investigator Award 2012

Dr Sarah Biggs Australasian Sleep Association Rob Pierce New Investigator Award 2012

Dr Sarah Biggs NHMRC Peter Doherty Biomedical Training Fellowship 2013-2016.

Dr Sarah Biggs CASS Foundation Travel Grant 2014.

Dr Sarah Biggs Sleep Research Society Foundation (USA) Early Career Research Development Award 2015-16. Identifying pathways for new treatment strategies for children with sleep disordered breathing. \$US74,509 2015.

Dr Lisa Walter Australia and New Zealand Children's Haematology Oncology Group to hold a Concept Development Workshop 2015 \$4,000

Dr Lisa Walter International Travel Award from the Australasian Sleep Association 2015 to present at the 30th Annual Meeting of the Associated Professional Sleep Societies, Denver, Colorado June 2016 \$5,000

Dr Lisa Walter Children's Cancer Foundation Grant 2016 \$18,426

UNIVERSITY ADMINISTRATIVE RESPONSIBILITIES

Within Monash University

1995-present Postgraduate Co-ordinator, Department of Paediatrics

1996-present Department of Paediatrics Library Committee Representative

2006-2014 MIMR representative to Faculty of Medicine Higher Degrees Committee

2007 present Executive Monash University Healthy Start to Life Network

2007-present Executive Monash Sleep Network

2010-present Mentor Monash Senior Women's Academic Career Programme

Within the Hudson Institute of Medical Research

2004-present Senior Scientist MIMR

1998-2006 MIMR Open Day Committee

2004-2006 Chair MIMR Open Day Committee

2004-2008 MIMR Postgraduate Committee

2008-2014 Chair MIMR Postgraduate Committee

2014-present Member Hudson Institute Gender Equity Committee

2014- present Mentor Hudson Institute Career Development Initiative

Within the Ritchie Centre

2010-present Deputy Director The Ritchie Centre

2007-2009 Scientific Director

1998-2009 Ritchie Centre for Baby Health Research Executive

2002-2009 Convenor Ritchie Centre for Baby Health Research Seminar Series

2003-2009 Convenor Ritchie Centre for Baby Health Research Journal Club

2014-present Chair The Ritchie Centre Career Development Initiative

PEER REVIEW

National grant reviewer

2006-2007 NHMRC Grant Review Panel member Sleep and Respiratory;

2008 Perinatology/Paediatrics/Obstetrics/Reproduction,

2010 Perinatology/Paediatrics/Obstetrics/Reproduction

2015 Perinatology/Paediatrics/Obstetrics/Reproduction

National Heart Foundation

Woman's and Children's Hospital Foundation

International research grants reviews

The Israel Science Foundation

Auckland Medical Research Foundation

Wellington Medical Foundation

Sleep Research Society (USA)

Asthma and Respiratory Foundation of New Zealand

2011 New Zealand Health Research Council

2012-2014 Foundation member discipline based Science Assessing Committee College New Zealand Health Research Council

Hong Kong Research Foundation

Research Grants Council of Hong Kong

Journal reviewer (I review ~ 50 articles per year)

New England Journal of Medicine

British Medical Journal

Pediatrics

Pediatric Research

Journal of Pediatrics

Early Human Development

Journal of Paediatrics and Child Health

Infant and Child Development

Journal of Clinical Child and Adolescent Psychology

Acta Paediatrica

Australian Journal of Paediatrics and Child Health

Australian and New Zealand Journal of Obstetrics and Gynaecology

Archives of Medical Research

Archives of Pediatrics

Infant Behaviour and Development

American Journal of Respiratory and Critical Care Medicine

European Respiratory Journal

Journal of Urban Health

Respiration Physiology and Neurobiology
 Journal of Applied Physiology
 Sleep Medicine
 Sleep
 Journal of Sleep Research
 Clinical Otolaryngology
 Stress
 Swiss Medical Weekly
 Journal of Orthopaedic Surgery and Research
 Chronobiology International
 Journal of Applied Physiology
 Chest
 Sleep Medicine Reviews
 Pediatric Pulmonology
 Archives of Adolescent and Pediatric Medicine
 Behavioural Brain Research
 Medical Engineering and Physics
 Canadian Medical Association Journal
 European Journal of Pain
 Indian Journal of Medical Research
 Plos One
 International Journal of Pediatric Otorhinolaryngology
 International Journal of Obesity
 BMC Pediatrics
 JAMA Pediatrics

SOCIETY MEMBERSHIPS - NATIONAL

Perinatal Society of Australia and New Zealand
 Australasian Sleep Association
 Sleep Health Foundation

SOCIETY MEMBERSHIPS - INTERNATIONAL

Sleep Research Society
 European Sleep Research Society
 International Society for the Study and Prevention of Infant Death
 International Pediatric Sleep Association
 World Federation of Sleep Research and Sleep Medicine Societies
 European Paediatric Wake-up Club. Working group on defining arousal in infants 1 month- 1 year of age. Final consensus published 2005.

WIDER COMMUNITY INVOLVEMENT

Media coverage prior to Red Nose Day
 Medical Research Week activities
 Work experience student supervisor
 Invited Lecturer VCE Psychology Teachers Conference 2004-2006. Introduction to Sleep: Development, Function, Recording and Disorders.

RESEARCH SUPPORT

1988 Clive and Vera Ramaciotti Foundation

- Horne RSC, O'Brien BMcC
Experimental surgery to correct congenital abnormalities in utero
\$20,000
- 1989 Royal Australasian College of Surgeons Foundation
Cleland H, Horne RSC
Correction of congenital abnormalities in utero
\$10,000
- 1990-1991 National Health and Medical Research Council
O'Brien BMcC, Horne RSC, Hurley JV
Fetal wound healing and in utero microsurgical correction of abnormalities
\$100,000
- 1992 Deakin University Faculty Research Grant
Naphine R, Horne RSC, Holmes C
Work overload: What nurses do when they can't do everything
\$5,000
- 1993 Deakin University, School of Nursing Research Grant
Horne RSC, Baker H, Naphine R
A comparative study of wound care products
\$5,000
- 1994 Health and Community Services, Victoria
Project Manager for consultancy to Evaluate group sessions for first time
mothers run by the Maternal and Child Health Service
\$50,000
- 1994 Deakin University Faculty Research Grant
Horne RSC, Baker H, Peters G
A comparative study of wound care products
\$5,000
- 1996-1998 Sudden Infant Death Research Foundation (South Australia)
TM Adamson, RSC Horne
Arousal from sleep in the newborn infant: Effects of respiratory illness and
prematurity
\$109,864
- 1996 Monash University Research Initiatives Fund
RSC Horne
Arousal from sleep in the newborn infant: Effects of respiratory illness.
\$5,000
- 1997-1999 National SIDS Council of Australia
RSC Horne, TM Adamson
Arousal from sleep in the newborn infant: Effects of sleeping position and
maternal smoking
\$126,169

- 1997-1999 SIDAssist
RSC Horne, TM Adamson
Arousal from sleep in the newborn infant.
\$70,107
- 1999-2000 Sudden Infant Death Research Foundation (South Australia) Fellowship
RSC Horne
Comparison of Arousal Responses in Infants at Risk for SIDS
\$100,000
- 1999 Ramaciotti Equipment Grant
TM Adamson, RSC Horne
Comparison of Arousal Responses in Infants at Risk for SIDS
\$10,000
- 2000 Karitane
RSC Horne, TM Adamson
Parent Education to Improve Infant Sleep/Wake Pattern
\$12,500
- 2000 Bonnie Babes Foundation
RSC Horne, TM Adamson
Effects of early postnatal compromises on development of infant sleep
\$5,304
- 2001 Monash Institute for Reproduction and Development
RSC Horne
Baby Health Research
\$50,000
- 2002 Monash Institute for Reproduction and Development
RSC Horne
Baby Health Research
\$50,000
- 2002 Sudden Infant Death Research Foundation (South Australia)
RSC Horne
Cardiovascular control in the prone position: a mechanism for Sudden Infant
Death Syndrome.
\$30,000
- 2003 Perpetual Trustees
RSC Horne, AW Walker
Dangerous dreams: Why is sleep dangerous for preterm babies?
\$75,000
- 2003 Sudden Infant Death Research Foundation (South Australia)
RSC Horne
Cardiovascular control in the prone position: a mechanism for Sudden Infant
Death Syndrome.

	\$30,000
2004-2006	NHMRC RSC Horne, AM Walker, CA Ramsden Development of cardiovascular control during sleep in infants after preterm birth. \$352,162
2005-2009	NHMRC Senior Research Fellowship RSC Horne \$506,250
2006-2008	NHMRC APP384142 RSC Horne, V Anderson, J Trinder, MJ Davey, AW Walker Cardiovascular, neurophysiological and neurocognitive assessments to define sleep disordered breathing in children \$317,625
2006-2008	NHMRC APP384218 AM Walker, C Barfield, RSC Horne Novel approaches to assessing cerebral circulation and oxygenation in preterm human infants \$340,140
2007	Marion and EH Flack Trustees RSC Horne Portable physiological recording system to record heart rate, respiratory rate, oxygen levels and sleep state in preterm infants. \$40,000
2008-2010	NHMRC APP491001 RSC Horne C Catroppa, J Trinder, MJ Davey, GM Nixon, S Hope Impact of sleep disordered breathing on cardiovascular, behavioural and neurocognitive function in preschool children \$408,750
2007-2008	Scottish Cot Death Trust RSC Horne Safe sleep: does swaddling improve infant sleep without decreasing arousability £12,900
2008	Monash University NHMRC equipment grant. SM Rajaratnan, RSC Horne, MG Lenne, GS Hamilton, J Stout, TL Sletten, MT Naughton. \$100,000
2009	Monash University Strategic Grant MT Naughton, RSC Horne, GS Hamilton, GM Nixon, D Mansefield, SM Rajaratnan, L Wee Ming, L Palmer

	\$55,000
2010-2015	NHMRC Senior Research Fellowship RSC Horne \$560,000
2010-2011	Foundation for the Study of Infant Deaths RSC Horne, F Wong, SR Yiallourou Mechanisms for the protective effect of dummies £85,790
2010-2011	Scottish Cot Death Trust RSC Horne, F Wong, SR Yiallourou A mechanism for the increased risk of the Sudden Infant Death Syndrome in infants sleeping in the prone position. £36,000
2011-2013	NHMRC APP1008919 RSC Horne, V Anderson, GM Nixon, MJ Davey Does treatment reverse the neurocognitive and cardiovascular sequelae of sleep disordered breathing in children? \$501,884
2011-2013	NHMRC APP1006647 RSC Horne, F Wong, AM Walker Developmental changes in cerebral oxygenation after term and preterm birth. \$430,022
2011-2013	NHMRC APP1010810 GM Nixon, RSC Horne, D Jolley, MJ Davey Alternatives to polysomnography for children with suspected obstructive sleep apnoea. \$345,444
2012-2013	Scottish Cot Death Trust RSC Horne, SR Yiallourou, FY Wong, N Brew Is sleeping preterm infants prone in the NICU really good for their brains? £60,000
2012-2013	Ramaciotti Foundation FY Wong, RSC Horne, SR Yiallourou, N Brew Is sleeping preterm infants prone in the NICU really good for their brains? \$80,000
2013-2015	NHMRC APP1045559 SR Yiallourou, EM Wallace, RSC Horne, S Hope Being born small is not good for the heart: early detection of cardiovascular risk. \$491,051

2013-2014	Heart Foundation RSC Horne, GM Nixon, MJ Davey, LM Walter, M Sabin Understanding the relationship between childhood obesity and obstructive sleep apnoea. \$129,110
2014-2017	NHMRC APP1063500 RSC Horne, SN Biggs, LM Walter, GM Nixon, MJ Davey What role do cerebral hypoxia and sleep disruption play in the neurocognitive effects of paediatric sleep disordered breathing? \$537,670
2015-2017	NHMRC APP1083026 FY Wong, RSC Horne, SR Yiallourou In what position should we be sleeping preterm infants in the NICU? \$398,055
2015	Angior Family Foundation GM Nixon, RSC Horne The daytime impacts of obstructive sleep apnoea in children with Down Syndrome. \$10,000
2015	Jack Brockhoff Foundation GM Nixon, RSC Horne Optimising daytime and cardiovascular function in children with Down Syndrome through the early identification of Obstructive Sleep Apnoea \$30,000
2015	Creswick Foundation RSC Horne SN Biggs Fellowship in child and adolescent development \$8,190
2016	Monash University School of Clinical Sciences NHMRC Near Miss Funding RSC Horne \$80,000
2016-2017	Children's Cancer Foundation Lisa Walter, Peter Downie, Maria McCarthy, Anne Kay, Caroline Blakemore, Janelle Jones, Gillian Nixon, Rosemary Horne Light therapy to improve sleep and quality of life in children with acute lymphoblastic leukaemia \$18,426
2017	Windermere Foundation RSC Horne Development of safe infant sleeping guidelines. \$30,000
2017-2019	Equity Trustees Nixon, GM., Horne, RSC., Liew, D. Davey, MJ.

	Towards evidenced based surgical planning for paediatric tonsillectomy \$134,013.00
2018	Monash University School of Clinical Sciences NHMRC Near Miss Funding RSC Horne \$70,000
2018-2019	Rebecca Cooper Foundation LM Walter, RSC Horne \$100,000

RESEARCH OUTPUT

INVITED REVIEWS

1. **HORNE RSC**, FRANCO P, ADAMSON TM, GROSWASSER J, KAHN A. Effects of body position on sleep and arousal characteristics in infants. Invited review for the Global Strategy Task Force Working party on Physiology. *Early Human Development* 69:25-33, 2002.
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4. **The International Paediatric Work Group on Arousals**. The scoring of arousals in healthy term infants (between the ages of 1 and 6 months) *J Sleep Research* 14:37-41, 2005.
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17. **HORNE RSC**, NIXON GM. The role of physiological studies and apnoea monitoring in infants. Update on SIDS mini symposium *Paediatric Respiratory Reviews.* 15(4):312-318, 2014.
18. **HORNE RSC**, HAUCK FR, MOON RY. Sudden Infant Death Syndrome and advice for safe sleeping. *Review BMJ* Apr 28;350:h1989. doi: 10.1136/bmj.h1989 2015.
19. WALTER LM, NIXON GM, DAVEY MJ, DOWNIE PA, **HORNE RSC**. Sleep and fatigue in pediatric oncology: a review of the literature. *Sleep Medicine Reviews* 24:71-82, 2015.
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23. **HORNE RSC** Cardiovascular autonomic dysfunction in sudden infant death syndrome. *Clinical Autonomic Research* 2018 Jan 3. doi: 10.1007/s10286-017-0490-y. [Epub ahead of print].
24. BENNET L, WALKER DW, **HORNE RSC**. Waking up too early – the consequences of preterm birth on sleep development. *In Press J Physiology* March 2018.

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2. FYFE K, YIALLOUROU SR, **HORNE RSC**. Cardiovascular consequences of preterm birth in the first year of life. In: *Preterm Birth - Mother and Child*, ISBN 978-953-307-828-1. Editor John Morrison. 2011
<http://www.intechopen.com/articles/show/title/cardiovascular-consequences-of-preterm-birth-in-the-first-year-of-life>
3. VLAHANDONIS A, WALTER LM, YIALLOUROU SR, **HORNE RSC**. Autonomic Cardiovascular Regulation During Sleep. In: *Sleep disordered breathing in children: a clinical guide*. Editors Dr Leila Kheirandish-Gozal and Dr David Gozal. Humana Press New York 2012:85-105.
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5. **HORNE RSC.** Apparent life threatening events (ALTE) in infancy. Chapter 25 Principles and Practice of Pediatric Sleep Medicine. Second Edition. Eds Sheldon, Ferber, Kryger and Gozal. Elsevier 2014.
6. **NIXON GM, HORNE RSC.** Chapter 44 Sleep disordered breathing in children. In Sleep Medicine. Editors Darren Mansfield, Matthew Naughton, Shantha Rajaratnam, Nick Antic. IP Communications, Melbourne, 2017.
7. **HORNE RSC.** Chapter 8 Sleep disorders in newborns and infants. In Sleep Disorders in Children. Editors Soňa Nevšim Alová and Oliviero Bruni. Springer International, Switzerland, 2017.
8. **HORNE RSC.** The Autonomic Physiology of the Fetus, and Infant and Arousal. In SIDS, Sudden Infant and Early Childhood Death: the past the present and the future. Editors Roger Byard and Jhodie Duncan 2018.

EDITORIALS

HORNE RSC, DAVEY MJ, NIXON JM. Investing in the Future: The benefits of Continuous Positive Airway Pressure for Childhood Obstructive Sleep Apnea. *Am J Respir Crit Care Med* 2012; 185(9):908-910.

PUBLICATIONS OF MATERIAL FOR MEDICAL PROFESSIONALS

KAHN A, FRANCO P, GROSWASSER J, SAWAGUCHI T, KATO I, KELMANSON I, HORNE RSC, MOZIN J. The effects of smoking during pregnancy. *The Nest*, 14 June 2003.
HORNE RSC Breast-feeding may protect against SIDS. *Australasian Science Magazine* June 2004 25(5): 29-30.

NON REFEREED PUBLICATIONS:

1. **HORNE RSC:** A preliminary survey of the distribution of penguins in the Australian Antarctic Territory, Macquarie Island, Heard Island and McDonald Islands P1 - 82. Unpublished report tabled at SCAR Sub-Committee on Bird Biology Meeting, Queenstown, New Zealand, October, 1980.
2. **HORNE RSC:** International survey of Antarctic seabirds (ISAS). *R.A.O.U. Newsletter*, December, No 50, 1981.
3. **HORNE RSC:** BIOMASS - Australia's contribution. *Habitat*, December, 1981.
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PEER REVIEWED PUBLICATIONS

1983

1. **KERRY KR, HORNE RSC, DORWARD DF:** Records of the short-tailed shearwater (*Puffinus tenuirostris*) in Antarctic Waters. *Emu* 83: Part 1, 35-37, 1983.
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3. WALTER LM, NIXON GM, **HORNE RSC**. Sleep and sleep disordered breathing in children with Down syndrome: effects on behaviour, neurocognition and the cardiovascular system. Submitted June Sleep Medicine Reviews.
4. WALTER LM, TAMANYAN K, WEICHARD A, DAVEY MJ, NIXON GM, **HORNE RSC**. Sleep disordered breathing in children disrupts the normal maturation of autonomic control of heart rate and its association with cerebral oxygenation. Submitted to J Physiology September 2018.
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ABSTRACTS PRESENTED AT SCIENTIFIC MEETINGS**1983**

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 118. RICHARDSON HL, YIALLOUROU SR, TRINDER J, WALKER AM, **HORNE RSC**. Arousal pathways and prone sleeping in infants. 10th Annual Congress of the Perinatal Society of Australia and New Zealand, Perth, April 3-6, 2006.
 119. YIALLOUROU SR, WALKER AW, **HORNE RSC**. Effect of prone sleeping on baroreflex sensitivity in term infants. 10th Annual Congress of the Perinatal Society of Australia and New Zealand, Perth, April 3-6, 2006.
 120. SMITH NB, YIALLOUROU SR, RAMSDEN CA, WALKER AM, **HORNE RSC**. Autonomic control during sleep in preterm infants. 10th Annual Congress of the Perinatal Society of Australia and New Zealand, Perth, April 3-6, 2006.
 121. RICHARDSON HL, YIALLOUROU SR, TRINDER J, WALKER AM, **HORNE RSC**. Does swaddling affect arousal responses in sleeping infants? 12th National Workshop on Fetal and Neonatal Physiology, Rottneest Island, April 7-8, 2006.
 122. SMITH NB, YIALLOUROU SR, RAMSDEN CA, WALKER AM, **HORNE RSC**. Responses to head-up tilting during sleep in preterm infants. 12th National Workshop on Fetal and Neonatal Physiology, Rottneest Island, April 7-8, 2006.
 123. YIALLOUROU SR, RAMSDEN CA, WALKER AM, **HORNE RSC**. Effect of prone sleeping on blood pressure variability in term infants. 12th National Workshop on Fetal and Neonatal Physiology, Rottneest Island, April 7-8, 2006.
 124. **HORNE RSC**. Development of infant ventilatory and arousal responses to hypoxia. 9th SIDS International Conference, Yokohama, June 1-4, 2006
 125. VERBEEK M, RICHARDSON HL, PARSLOW PM, SCOTT S, HARDING R, **HORNE RSC**. Effects of sleep state on the initial ventilatory response to hypoxia in sleeping preterm infants. 9th SIDS International Conference, Yokohama, June 1-4, 2006.
 126. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Heart rate and blood pressure responses to head-up tilts in sleeping infants. 9th SIDS International Conference, Yokohama, June 1-4, 2006.
 127. RICHARDSON HL, YIALLOUROU SR, TRINDER J, WALKER AM, **HORNE**

- RSC.** Arousal pathways and prone sleeping in infants. 9th SIDS International Conference, Yokohama, June 1-4, 2006.
128. **HORNE RSC**, YIALLOUROU SR, SMITH NB, RAMSDEN CA, WALKER AM. The circulation in infancy: effects of pre-term birth. 1st Scientific Conference Healthy Start to Life Research Initiative, Monash University, 14 July 2006.
 129. BASHIR F, YIALLOUROU SR, WALKER AM, DAVEY MJ, **HORNE RSC**. Continuous overnight blood pressure measurement in children with sleep disordered breathing. 1st Scientific Conference Healthy Start to Life Research Initiative, Monash University, 14 July 2006.
 130. RICHARDSON HL, PARSLOW PM, WALKER AM, HARDING R, **HORNE RSC**. Effects of sleep state on the initial hypoxic ventilatory response in sleeping infants. 1st Scientific Conference Healthy Start to Life Research Initiative, Monash University, 14 July 2006.
 131. RICHARDSON HL, PARSLOW PM, WALKER AM, HARDING R, **HORNE RSC**. Effects of postnatal age on the initial hypoxic ventilatory response in sleeping infants. 1st Scientific Conference Healthy Start to Life Research Initiative, Monash University, 14 July 2006.
 132. SMITH NB, YIALLOUROU SR, RAMSDEN CA, WALKER AM, **HORNE RSC**. Autonomic control during sleep in pre-term infants. 1st Scientific Conference Healthy Start to Life Research Initiative, Monash University, 14 July 2006.
 133. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Validation of a new non-invasive method to measure blood pressure and baroreflex sensitivity in pre-term infants. 1st Scientific Conference Healthy Start to Life Research Initiative, Monash University, 14 July 2006.
 134. **HORNE RSC**, BASHIR F, YIALLOUROU SR, WALKER AM, DAVEY MJ. Continuous overnight blood pressure measurement in children with sleep disordered breathing. 18th Congress of the European Sleep Research Society, Innsbruck, 12-16 September 2006.
 135. **HORNE RSC**, VERBEEK M, RICHARDSON HL, PARSLOW PM, SCOTT S, HARDING R. Effects of sleep state and postnatal age on the initial ventilatory response to hypoxia in sleeping term infants. 18th Congress of the European Sleep Research Society, Innsbruck, 12-16 September 2006.
 136. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Blood pressure variability during sleep in infants: effects of sleep state and sleeping position. 18th Congress of the European Sleep Research Society, Innsbruck, 12-16 September 2006.
 137. YIALLOUROU SR, WALKER AM, **HORNE RSC**. The effect of sleep state and sleeping position on baroreflex sensitivity in term infants. 18th Congress of the European Sleep Research Society, Innsbruck, 12-16 September 2006.
 138. **HORNE RSC**, RICHARDSON HL, VERBEEK M, PARSLOW PM, SCOTT S, WALKER AM, HARDING R. Hypoxic ventilatory and arousal responses in newborn infants: effects of prematurity. 33rd Annual Meeting of the Fetal and Neonatal Physiological Society, University of Cambridge, 17-20 September 2006.
 139. NOA AM, NG ML, O'DRISCOLL DM, YANG J, DAVEY MJ, **HORNE RSC**. Cardiovascular implications of sleep disordered breathing in children. 19th Annual Scientific Meeting of the Australasian Sleep Association, Perth, 5-7 October 2006.
 140. NIXON GM, WAWRUSZAK M, VERGINIS N, **HORNE RSC**, DAVEY MJ. Validation of the Paediatric Daytime Sleepiness Scale for assessment of excessive daytime sleepiness in primary school children. 19th Annual Scientific Meeting of the Australasian Sleep Association, Perth, 5-7 October 2006.
 141. NG ML, O'DRISCOLL DM, YANG J, NOA AM, DAVEY MJ, **HORNE RSC**.

Cardiovascular changes during sleep disordered breathing in children. 19th Annual Scientific Meeting of the Australasian Sleep Association, Perth, 5-7 October 2006.

142. **HORNE RSC**, RICHARDSON HL, VERBEEK M, PARSLOW PM, SCOTT S, WALKER AM, HARDING R. Hypoxic ventilatory and arousal responses: effects of prematurity. 19th Annual Scientific Meeting of the Australasian Sleep Association, Perth, 5-7 October 2006.
143. O'DRISCOLL DM, KWAN M, NOA AM, DAVEY MJ, **HORNE RSC**. Clinical usefulness of actigraphy in measuring arousal from sleep in children. 19th Annual Scientific Meeting of the Australasian Sleep Association, Perth, 5-7 October 2006.
144. HYDE M, NIXON GM, O'DRISCOLL DM, VERGINIS N, NOA AM, DAVEY MJ, **HORNE RSC**. Combination of actigraphy and overnight oximetry as an abbreviated test for assessment of paediatric obstructive sleep apnoea. 19th Annual Scientific Meeting of the Australasian Sleep Association, Perth, 5-7 October 2006.

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145. BASHIR F, O'DRISCOLL DM, DAVEY MJ, **HORNE RSC**. Assessment of overnight blood pressure and heart rate in children with sleep disordered breathing. 25th Annual Sleep Disorders in Infancy and Childhood Meeting, Palm Springs, California USA 25-27 January 2007.
146. **HORNE RSC**, RICHARDSON HL, VERBEEK M, PARSLOW PM, SCOTT S, WALKER AM, HARDING R. Hypoxic ventilatory and arousal responses in newborn infants: effects of prematurity. 25th Annual Sleep Disorders in Infancy and Childhood Meeting, Palm Springs, California USA 25-27 January 2007.
147. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Dynamic changes in blood pressure during sleep in early infancy. 21st Annual meeting of the Fetal and Neonatal Workshop, Melbourne, March 31-April 1, 2007.
148. RICHARDSON HL, WALKER AM, TRINDER J, **HORNE RSC**. Maturation changes in infant arousal processes during the first six months of life. 21st Annual meeting of the Fetal and Neonatal Workshop, Melbourne, March 31-April 1, 2007.
149. SMITH NB, YIALLOUROU SR, RAMSDEN CA, O'DRISCOLL DM, WALKER AM, **HORNE RSC**. Cardiovascular control differs in infants with a history of apnoea of prematurity. 21st Annual meeting of the Fetal and Neonatal Workshop, Melbourne, March 31-April 1, 2007.
150. RICHARDSON HL, WALKER AM, TRINDER J, **HORNE RSC**. SIDS risk factors alter infant arousal processes. 11th annual Congress of the Perinatal Society of Australia and New Zealand, Melbourne April 1-4, 2007.
151. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Development of blood pressure variability in term infants during sleep: dangers of prone sleeping. 11th annual Congress of the Perinatal Society of Australia and New Zealand, Melbourne April 1-4, 2007.
152. SMITH NB, YIALLOUROU SR, O'DRISCOLL DM, WALKER AM, **HORNE RSC**. Prematurity is associated with longterm alterations in cardiovascular autonomic control during sleep. 11th annual Congress of the Perinatal Society of Australia and New Zealand, Melbourne April 1-4, 2007.
153. SOUTHWELL MA, YIALLOUROU SR, O'DRISCOLL DM, WALKER AM, **HORNE RSC**. Effects of gestational age on autonomic control of the cardiovascular system. 11th annual Congress of the Perinatal Society of Australia and New Zealand, Melbourne April 1-4, 2007.
154. SOUTHWELL MA, YIALLOUROU SR, O'DRISCOLL DM, WALKER AM, **HORNE RSC**. Validation of non invasive measurement of blood pressure in infants undergoing intensive care. 11th annual Congress of the Perinatal Society of Australia

- and New Zealand, Melbourne April 1-4, 2007.
155. O'DRISCOLL DM, NOA AM, NG ML, YANG J, DAVEY MJ, ANDERSON V, WALKER AM, TRINDER J, **HORNE RSC**. The cardiovascular effects of sleep apnoea in children: does sleep state make a difference. 10th International Sleep and Breathing Meeting. Palm Cove 31 August - 1 September, 2007
 156. VERGINIS N, **HORNE RSC**, DAVEY MJ, NIXON GM. Is OSAS really a REM-related condition in children? 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 157. WAWRUSZAK M, VERGINIS N, **HORNE RSC**, DAVEY MJ, NIXON GM Is a night in the sleep laboratory representative of a child's typical sleep at home? 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 158. RICHARDSON HL, WALKER AM, **HORNE RSC**. Infant arousal pathways are modified at 2-3 months postnatal age. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 159. RICHARDSON HL, WALKER AM, **HORNE RSC**. SIDS risk factors, the prone position and maternal smoking, alter arousal processes in sleeping infants. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 160. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Development of cardiovascular control during sleep in infants: effects of sleep state, position and postnatal age. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 161. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Dynamic changes of blood pressure variability in term infants during sleep: risks of prone sleeping. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 162. NOA AM, O'DRISCOLL DM, NG ML, YANG J, DAVEY MJ, ANDERSON V, WALKER AM, TRINDER J, **HORNE RSC**. The cardiovascular effects of central apnoea during sleep in children. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 163. YANG J, TRINDER J, WALKER AM, DAVEY MJ, ANDERSON V, **HORNE RSC**. Use of EEG spectral analysis for determining sleep quality in children with sleep disordered breathing. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 164. SMITH NB, YIALLOUROU SR, O'DRISCOLL DM, RAMSDEN CA, WALKER AM, **HORNE RSC**. Altered cardiovascular control during sleep in infants with a neonatal history of apnoea of prematurity. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 165. **HORNE RSC**, YIALLOUROU SR, WALKER AM. Development of cardiovascular control in infants. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, Cairns, September 2-6, 2007.
 166. SMITH NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Preterm birth alters blood pressure control: implications for long-term cardiovascular health. Healthy Start for a Healthy Life: Satellite Conference of DOHaD, 5th World Congress on Developmental Origins of Health and Disease, Melbourne, November 1-2, 2007.
 167. GOLDER V, RAMSDEN CA, HOPE SA, WALKER AM, **HORNE RSC**. Assessment of cardiovascular variables as indicators of clinical compromise in preterm infants in the first days of life. Healthy Start for a Healthy Life: Satellite

Conference of DOHaD, 5th World Congress on Developmental Origins of Health and Disease, Melbourne, November 1-2, 2007.

168. RICHARDSON HL, WALKER AM, **HORNE RSC**. Maternal Smoking Alters Infant Arousal Processes. Healthy Start for a Healthy Life: Satellite Conference of DOHaD, 5th World Congress on Developmental Origins of Health and Disease, Melbourne, November 1-2, 2007.

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169. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Cardiovascular control in healthy term infants is altered by sleeping position. 26th Annual Sleep Disorders in Infancy and Childhood Meeting, Palm Springs, California USA 17-19 January 2008.
170. RICHARDSON HL, WALKER AM, **HORNE RSC**. Infant swaddling does not alter arousability. Perinatal Society of Australia and New Zealand 11th Annual Congress, Gold Coast, April 20-23, 2008
171. GOLDER V, RAMSDEN CA, HOPE S, WALKER AM, **HORNE RSC**. Assessment of autonomic cardiovascular control in ill preterm infants during the first days of life. Perinatal Society of Australia and New Zealand 11th Annual Congress, Gold Coast, April 20-23, 2008
172. SMITH NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Impaired baroreflex responses to head-up tilting during sleep in extremely low birth weight preterm infants. Perinatal Society of Australia and New Zealand 11th Annual Congress, Gold Coast, April 20-23, 2008.
173. SMITH NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Prematurely-born infants with extremely low birth weights have altered cardiovascular control during sleep: implications for later cardiovascular disease. Perinatal Society of Australia and New Zealand 11th Annual Congress, Gold Coast, April 20-23, 2008.
174. YIALLOUROU SR, WALKER AM, **HORNE RSC**. The prone sleeping position impairs cardiovascular control in healthy term infants. Perinatal Society of Australia and New Zealand 11th Annual Congress, Gold Coast, April 20-23, 2008.
175. SMITH NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Effects of birth weight on baroreflex responses to head-up tilting during sleep in prematurely-born infants. 22nd Annual Meeting of the Associated Professional Sleep Societies, Baltimore, USA, June 7-12, 2008.
176. RICHARDSON HL, WALKER AM, **HORNE RSC**. Sleeping like a baby: Does swaddling promote sleep in infants by inhibiting arousal pathways? 22nd annual meeting of the Associated Professional Sleep Societies, Baltimore USA, June 7-12, 2008.
177. RICHARDSON HL, TAN SK, WALKER AM, **HORNE RSC**. Comparison of infant arousal responses between different stimuli. 22nd annual meeting of the Associated Professional Sleep Societies, Baltimore USA, June 7-12, 2008.
178. **HORNE RSC**, FOSTER AM, PATTERSON R, YANG JSC, WONG S, NG ML, BASHIR F, NIXON GM, DAVEY MJ, TRINDER J. Sleep Disordered Breathing Of Any Severity Affects Blood Pressure During Sleep In Primary School Children. 22nd annual meeting of the Associated Professional Sleep Societies, Baltimore USA, June 7-12, 2008.
179. YANG JSC, NICHOLAS CL, WALKER AM, TRINDER JA, NIXON, GM, DAVEY M, ANDERSON V, **HORNE RSC**. Use of EEG spectral analysis for determining overnight sleep quality in children with sleep disordered breathing. 22nd annual meeting of the Associated Professional Sleep Societies, Baltimore USA, June 7-12, 2008.
180. SMITH NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Association

- between birth weight and cardiovascular control during sleep in prematurely-born infants: implications for sudden infant death syndrome. The 10th SIDS International Conference, Portsmouth, UK, June 23-26, 2008.
181. SMITH NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Altered cardiovascular responses to head-up tilting during sleep in extremely low birth weight preterm infants. The 10th SIDS International Conference, Portsmouth, UK, June 23-26, 2008.
 182. RICHARDSON HL, WALKER AM, **HORNE RSC**. To swaddle or not to swaddle: effects on infant arousability from sleep. The 10th SIDS International Conference, Portsmouth, UK, June 23-26, 2008.
 183. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Prone sleeping impairs circulatory control in healthy term infants: implications for SIDS. The 10th SIDS International Conference, Portsmouth, UK, June 23-26, 2008.
 184. RICHARDSON HL, **HORNE RSC**. Safe sleeping: Does swaddling improve infant sleep without decreasing arousability? Combined Meeting of Grant Holders supported by the Foundation for the Study of Infant Deaths and the Scottish Cot Death Trust. University of Greenwich, London UK, September 4-5, 2008.
 185. YIALLOUROU SR, WALKER AM, **HORNE RSC**. Prone sleeping impairs circulatory control in sleeping infants. 19th Congress of the European Sleep Research Society, Glasgow UK, 9-13 September, 2008.
 186. **HORNE RSC**, FOSTER AM, PATTERSON R, YANG JSC, WONG S, NG ML, BASHIR F, NIXON GM, DAVEY MJ, TRINDER J. Sleep Disordered Breathing Of Any Severity Affects Blood Pressure During Sleep In Primary School Children. 20th Annual Scientific Meeting of the Australasian Sleep Association, Adelaide 2-4 October, 2008.
 187. PATTERSON RR, O'DRISCOLL DM, FOSTER A, YANG J, NIXON GM, DAVEY MJ, WALKER AM, ANDERSON V, TRINDER J, **HORNE RSC**. Blood pressure and heart rate during wakefulness and sleep in primary school children with sleep disordered breathing. 20th Annual Scientific Meeting of the Australasian Sleep Association, Adelaide 2-4 October, 2008.
 188. FOSTER A, O'DRISCOLL DM, YANG J, NIXON GM, DAVEY MJ, WALKER AM, ANDERSON V, TRINDER J, **HORNE RSC**. A comparison of novel methods for measuring sleep fragmentation in children. 20th Annual Scientific Meeting of the Australasian Sleep Association, Adelaide 2-4 October, 2008.
 189. WALTER LM, FOSTER A, PATTERSON, RR, ANDERSON V NIXON GM, DAVEY MJ, TRINDER J, WALKER AM, **HORNE RSC**. Cardiovascular variability during periodic leg movements in sleep in children. 20th Annual Scientific Meeting of the Australasian Sleep Association, Adelaide 2-4 October, 2008.
 190. YORKSTON SM, O'DRISCOLL DM, **HORNE RSC**, NIXON GM. Improving home oximetry as a diagnostic tool in children with suspected sleep disordered breathing. 20th Annual Scientific Meeting of the Australasian Sleep Association, Adelaide 2-4 October, 2008.
 191. O'DRISCOLL DM, **HORNE RSC**, HOPE S, NIXON GM. The heart rate response to arousal from sleep is reduced in children with Down syndrome. 20th Annual Scientific Meeting of the Australasian Sleep Association, Adelaide 2-4 October, 2008.
 192. JACKMAN A, PETERS A NICHOLAS C, FOSTER AM, O'DRISCOLL DM, **HORNE RSC**, TRINDER J. Primary snoring in children impacts cardiovascular functioning. 20th Annual Scientific Meeting of the Australasian Sleep Association, Adelaide 2-4 October, 2008.

193. **HORNE RSC** .Sleeping like a baby – sleep and sleep disorders in infancy and childhood. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 194. FOSTER A, O'DRISCOLL DM, YANG J, NIXON GM, DAVEY MJ, WALKER AM, ANDERSON V, TRINDER J, **HORNE RSC**. A comparison of novel methods for measuring sleep fragmentation in children. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 195. WALTER LM, FOSTER A, PATTERSON, RR, ANDERSON V NIXON GM, DAVEY MJ, TRINDER J, WALKER AM, **HORNE RSC**. Cardiovascular variability during periodic leg movements in sleep in children. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 196. YORKSTON SM, O'DRISCOLL DM, **HORNE RSC**, NIXON GM. Improving home oximetry as a diagnostic tool in children with suspected sleep disordered breathing. 23rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 197. WITCOMBE NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Association between birth weight and cardiovascular control during sleep in prematurely born infants: implications for sudden infant death syndrome. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 198. O'DRISCOLL DM, NOA AM, NG ML, YANG J, BASHIR F, DAVEY MJ, ANDERSON V, WALKER AM, TRINDER J, **HORNE RSC**. The cardiovascular effects of sleep apnoea in children: does sleep state pay a role? 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 199. HEPPONSTALL JM, RAMSDEN CA, WALTER LM, **HORNE RSC**. Autonomic cardiovascular control in preterm infants. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 200. KRISHNAN L, WALTER L, WALKER AM, WONG F, **HORNE RSC**. Development of cardiovascular control in full term infants: implications for sudden infant death syndrome. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
 201. SINGAM L, WALTER LM, NOA AM, PATTERSON RR, NIXON GM, DAVEY MJ, WALKER AM, ANDERSON V, TRINDER J, **HORNE RSC**. Assessment of autonomic cardiovascular control in primary school children with sleep disordered breathing. 3rd Annual Scientific Conference of the Monash University Healthy Start to Life Network, Monash University, Melbourne 13-14 November, 2008.
- 2009**
202. RICHARDSON HL, WALKER AM, **HORNE RSC**. Effects of gender on arousal from sleep responses in sleeping infants. 23rd Annual Fetal and Neonatal Workshop of Australia and New Zealand, Darwin 17-18, April 2009.
 203. YIALLOUROU SR, SANDS SA, WALKER AW, **HORNE RSC**. Assessment of baroreflex sensitivity in the frequency and time domains during sleep in term infants. 23rd Annual Fetal and Neonatal Workshop of Australia and New Zealand, Darwin 17-18, April 2009.
 204. WITCOMBE NB, WALKER AM, **HORNE RSC**. Pre-eclampsia: effects on the

- preterm infant cardiovascular system. 23rd Annual Fetal and Neonatal Workshop of Australia and New Zealand, Darwin 17-18, April 2009.
205. YIALLOUROU SR, SANDS SA, WALKER AW, **HORNE RSC**. Maturation of Baroreflex Sensitivity in Term Infants. Perinatal Society of Australia and New Zealand 12th Annual Congress, Darwin, April 20-22, 2009.
 206. WITCOMBE NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Cardiovascular responses to head-up tilting: Consequence of Preterm birth. Perinatal Society of Australia and New Zealand 12th Annual Congress, Darwin, April 20-22, 2009.
 207. RICHARDSON HL, WALKER AM, **HORNE RSC**. Influence of swaddling experience on spontaneous and induced arousal patterns in sleeping infants. Perinatal Society of Australia and New Zealand 12th Annual Congress, Darwin, April 20-22, 2009.
 208. RICHARDSON HL, WALKER AM, **HORNE RSC**. Infant arousal patterns to respiratory and somatosensory stimulation. Perinatal Society of Australia and New Zealand 12th Annual Congress, Darwin, April 20-22, 2009.
 209. HEPONSTALL JM, GOLDBER V, RAMSDEN CA, WALTER LM, **HORNE RSC**. Autonomic cardiovascular control and hypotension in preterm infants. Perinatal Society of Australia and New Zealand 12th Annual Congress, Darwin, April 20-22, 2009.
 210. WONG FY, KRISHNAN L, WITCOMBE NB, YORKSTON SM, FOSTER AM, WALTER LM, WALKER AM, **HORNE RSC**. Impact of sleep states and positions on cerebral oxygenation in term infants. Perinatal Society of Australia and New Zealand 12th Annual Congress, Darwin, April 20-22, 2009.
 211. WITCOMBE NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Cardiovascular responses to head-up tilting: consequences of preterm birth. 23rd Annual meeting of the Associated Professional Sleep Societies, Seattle June 6-11, 2009.
 212. YANG JS, NICHOLAS CL, WALKER AM, TRINDER JA, NIXON, GM, DAVEY M, ANDERSON V, **HORNE RSC**. EEG spectral analysis of respiratory event terminations in children with severe sleep disordered breathing. 23rd Annual meeting of the Associated Professional Sleep Societies, Seattle June 6-11, 2009.
 213. JACKMAN A, DAVEY MJ, NIXON GM, ANDERSON V, TRINDER J, **HORNE RSC**. Reduced quality of life in preschool children with sleep-disordered breathing. 23rd Annual meeting of the Associated Professional Sleep Societies, Seattle, June 6-11, 2009.
 214. WALTER LM, O'DRISCOLL DM, FOSTER AM, NIXON GM, DAVEY MJ, ANDERSON V, WALKER AM, TRINDER J, **HORNE RSC**. Blood pressure remains elevated independent of respiratory events in children with sleep disordered breathing. 5th Annual Conference on Pediatric Sleep Medicine, Westminster Colorado, October 2-4, 2009.
 215. BOURKE R, ANDERSON V, YANG JS, JACKMAN AR, KILLEDAR A, NIXON GM, DAVEY MJ, WALKER AM, TRINDER J, **HORNE RSC**. Neurobehavioural function is impaired in children with all severities of sleep disordered breathing. 5th Annual Conference on Pediatric Sleep Medicine, Westminster Colorado, October 2-4, 2009.
 216. JACKMAN, A.R., DAVEY, M.J., NIXON, G.M., HOPE, S., CATROPPA, C., ANDERSON, V., TRINDER, J., **HORNE, RSC**. Cognitive profiles of preschool children with sleep-disordered breathing. Combined Abstracts of the Australian Psychology Conferences 2009.

217. **HORNE RSC**, YANG JS, WALTER LM, O'DRISCOLL DM, FOSTER AM, WONG S, NG ML, BASHIR F, PATTERSON R, NIXON GM, JOLLEY D, ANDERSON V, WALKER AM, TRINDER J, DAVEY MJ. Effects of sleep disordered breathing severity on nocturnal dipping in primary school children. 5th Annual Conference on Pediatric Sleep Medicine, Westminster Colorado, October 2-4, 2009.
218. **HORNE RSC** Cardiovascular consequences of sleep disordered breathing in children. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
219. WITCOMBE NB, YIALLOUROU SR, SANDS S, WALKER AM, **HORNE RSC**. Baroreflex Sensitivity: Effects of sleep state, age and preterm birth across the first six months of term – corrected age. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
220. RICHARDSON HL, WALKER AM, **HORNE RSC**. Sleeping like a baby: does gender make a difference? 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
221. O'DRISCOLL DM, FOSTER AM, WALTER LM, NIXON GM, DAVEY MJ, ANDERSON V, WALKER AM, TRINDER J, **HORNE RSC**. Determinants of blood pressure and heart rate in children with sleep disordered breathing. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
222. WALTER LM, O'DRISCOLL DM, FOSTER AM, NIXON GM, DAVEY MJ, ANDERSON V, WALKER AM, TRINDER J, **HORNE RSC**. Cardiovascular effects of sleep disordered breathing in children: blood pressure remains elevated independent of respiratory events. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
223. YORKSTON S, DAVEY MJ, **HORNE RSC**, NIXON GM. Clinical Utility of oximetry as a first test in a paediatric sleep laboratory. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
224. JACKMAN A, DAVEY MJ, NIXON GM, HOPE S, CATROPPA C, O'DRISCOLL DM, ANDERSON V, TRINDER J, **HORNE RSC**. Health-related quality of life in preschool children with sleep-disordered breathing. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
225. O'DRISCOLL DM., **HORNE RSC**, M. DAVEY MJ., HOPE S., WALKER AM., NIXON GM. Increased sympathetic activity in children with obstructive sleep apnoea. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
226. TAI A, **HORNE RSC**., DAVEY MJ, NIXON GM. The effects of growth hormone on sleep parameters in children with Prader-Willi Syndrome. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
227. RICHARDSON HL, WALKER AM., **HORNE RSC**. Influence of swaddling experience on infant sleep physiology. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
228. WITCOMBE NB, YIALLOUROU SR., SANDS S, WALKER AM, **HORNE RSC**. Maturation of autonomic nervous system activity during sleep: effects of preterm birth. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
229. YIALLOUROU SR., SANDS S, WALKER AM, **HORNE RSC**. Does Sleeping position affect baroreflex sensitivity in infants?: implications for sudden infant death

syndrome. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.

230. MIHAI R , TAI A, **HORNE RSC**, DAVEY MJ, NIXON GM. Behavioural and quality of life outcomes in children established on CPAP treatment for persistent OSA. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.
231. VERGINIS N, **HORNE RSC**, DAVEY MJ. Comparison of a limited channel portable device (Compumedics Somte) with the gold standard of comprehensive PSG paediatric patients. 21st Annual Scientific Meeting of the Australasian Sleep Association, Melbourne, October 8-10 2009.

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232. YIALLOUROU S, SANDS S, WALKER A, **HORNE RSC**. Effects of Gender on the Maturation of Heart Rate Variability in Term and Preterm Infants. 24th Annual meeting of the Fetal and Neonatal Workshop, Melbourne, Wellington, New Zealand, March 26-27, 2010
233. WITCOMBE N, YIALLOUROU S, SANDS S, WALKER A, **HORNE RSC**. Decreased sympathetic vascular modulation during sleep in preterm infants. Perinatal Society of Australia and New Zealand 14th Annual Congress, Wellington, New Zealand, March 28-31, 2010.
234. YIALLOUROU S, WITCOMBE N, SANDS S, WALKER A, **HORNE RSC**. Gender differences in blood pressure variability during sleep over the first 6 months of life. Perinatal Society of Australia and New Zealand 14th Annual Congress, Wellington, New Zealand, March 28-31, 2010.
235. RICHARDSON HL, WALKER AM, **HORNE RSC**. Effects of gender on spontaneous arousal processes in sleeping infants. Perinatal Society of Australia and New Zealand 14th Annual Congress, Wellington, New Zealand, March 28-31, 2010..
236. RICHARDSON HL, WALKER AM, **HORNE RSC**. Exploring the dummy debate – Does dummy use affect infant arousability from sleep? Perinatal Society of Australia and New Zealand 14th Annual Congress, Wellington, New Zealand, March 28-31, 2010.
237. JACKMAN, A.R., ANDERSON, V.A., CATROPPA, C., DAVEY, M., NIXON, G.M. WALTER, L., O'DRISCOLL, D.M., HOPE, S., TRINDER, J.A., HORNE, R.S.C. (2010). Discrepancy between cognitive and behavioral profiles of young children with sleep-disordered breathing. 24th Annual meeting of the Associated Professional Sleep Societies, San Antonio, Texas USA, June 5-9, 2010.
238. WONG F, WITCOMBE N, YIALLOUROU S, WALKER A, **HORNE RSC**. Effects of prone sleeping on cerebral oxygenation in healthy term infants. 20th Congress of the European Sleep Research Society, Lisbon Portugal September 14-18, 2010.
239. WALTER LM, NIXON GM, WALKER AM, ANDERSON V, TRINDER J, DAVEY MJ, **HORNE RSC**. Heart rate variability remains unchanged in children with sleep disordered breathing. 20th Congress of the European Sleep Research Society, Lisbon Portugal September 14-18, 2010.
240. **HORNE RSC**, WALTER LM, YANG J, RICHARDSON H, O'DRISCOLL D, FOSTER A, WONG S, NG M, BASHIR F, PATTERSON G, NIXON GM, JOLLEY D, WALKER AM, ANDERSON V, DAVEY MJ,. TRINDER J, Effects of sleep-disordered breathing severity on blood pressure in primary school children. 20th Congress of the European Sleep Research Society, Lisbon Portugal September 14-18, 2010.

241. YIALLOUROU S, SANDS S, WALKER A, **HORNE RSC**. Effects of sleeping position on autonomic cardiovascular control in infants. ISA and ISPID Joint Conference, Sydney Masonic Centre, Sydney, October 8-10 2010.
242. YIALLOUROU S, SANDS S, WALKER A, **HORNE RSC**. Does sleeping position effect baroreflex sensitivity in infants? Implications for Sudden Infant Death Syndrome. ISA and ISPID Joint Conference, Sydney Masonic Centre, Sydney, October 8-10 2010.
243. JACKMAN A, ANDERSON V, CATROPPA C, DAVEY M., NIXON G, WALTER, L, O'DRISCOLL D, HOPE S, TRINDER J, **HORNE R**. Cognition vs. behaviour in a clinical sample of preschool children with sleep-disordered breathing. Paper presentation at the Royal Children's Hospital, Murdoch Childrens Research Institute, and University of Melbourne Campus Research Week, Melbourne, Australia. 2010.
244. JACKMAN A, ANDERSON V, CATROPPA C, DAVEY M, NIXON G, WALTER L, O'DRISCOLL, D, HOPE S, TRINDER J, **HORNE RSC**. Cognition vs. behaviour in a clinical sample of preschool children with sleep-disordered breathing. 22nd Annual meeting of the Australasian Sleep Association, Christchurch New Zealand, October 21-23, 2010.
245. WALTER L, DAVEY, M., NIXON, G.M., ANDERSON, V.A, TRINDER J, WALKER AM, **HORNE RSC**. Sleep disordered breathing does not affect autonomic control of heart rate during sleep in primary school children. 22nd Annual meeting of the Australasian Sleep Association, Christchurch New Zealand, October 21-23, 2010.
246. NISBET L, WALTER L, NIXON GM, DAVEY MJ, **HORNE RSC**. Are cardiovascular parameters in 3 to 5 year old children altered by sleep disordered breathing? 5th Australian Health and Medical Research Congress. Melbourne 14-18 November 2010.
247. PRATHAVADI P, YIALLOUROU SR, WONG, FY, **HORNE RSC**. Effect of dummy sucking on infant Arousability: a mechanism for the protection against SIDS? 5th Australian Health and Medical Research Congress. Melbourne 14-18 November 2010.
248. YIALLOUROU S, SANDS S, WALKER A, **HORNE RSC**. Development of Autonomic Heart Rate And Blood Pressure Control In Infants. Congress of the International Paediatric Sleep Association Joint Meeting with Paediatric Sleep Medicine. Rome, Italy, December 3-5, 2010.
249. YIALLOUROU S, SANDS S, WALKER A, **HORNE RSC**. The Effect Of Infant Prematurity On Baroreflex Sensitivity During Sleep In Infancy. Congress of the International Paediatric Sleep Association Joint Meeting with Paediatric Sleep Medicine. Rome, Italy, December 3-5, 2010.

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250. WONG FY, WITCOMBE NB, YIALLOUROU SR, WALKER AM, **HORNE RSC**. Maturation of Cerebral Oxygenation in Infancy. 15th Annual Congress of the Perinatal Society of Australia and New Zealand (PSANZ). Hobart, Australia, 10-13th April 2011.
251. PRATHIVADI P, YILLOUROU SR, WONG FY, RICHARDSON HL, **HORNE RSC**. Effect of Dummy Sucking on Infant Arousability: A Mechanism for the Protection Against SIDS? 15th Annual Congress of the Perinatal Society of Australia and New Zealand (PSANZ). Hobart, Australia, 10-13th April 2011.
252. SUTHERLAND MR, GUBHAJU L, MEDHURST AM , **HORNE RSC**, HOY W, BLACK MJ. Urinary Ngal: Is it Predictive of Pathological Protenuria in the Preterm Neonate? 15th Annual Congress of the Perinatal Society of Australia and New Zealand (PSANZ). Hobart, Australia, 10-13th April 2011.

253. YIALLOUROU SR, WITCOMBE NB, SANDS SA, WALKER AM, **HORNE RSC**. Development of Blood Pressure Control During Sleep is Altered by Preterm Birth. 15th Annual Congress of the Perinatal Society of Australia and New Zealand (PSANZ). Hobart, Australia, 10-13th April 2011.
254. YIALLOUROU SR, SANDS SA, WALKER AM, **HORNE RSC**. Development of Autonomic Control in Infants. 15th Annual Congress of the Perinatal Society of Australia and New Zealand (PSANZ). Hobart, Australia, 10-13th April 2011.
255. **HORNE RSC**. The Physiological Basis of the Prone Sleeping Risk. Kaarene Fitzgerald Public Lecture. Melbourne, Australia 14th June 2011.
256. **HORNE RSC**, WONG FY, YIALLOUROU SR. Mechanisms for the Protective Effects of Dummies. Foundation for the Study of Infant Deaths (FSID). Glasgow, United Kingdom, September 2011.
257. RICHARDSON HL, **HORNE RSC**. Safe Sleeping: Does Swaddling Improve Infants Sleep Without Decreasing Arousability. Scottish Cot Death Trust. Glasgow, United Kingdom, 7th September 2011.
258. **HORNE RSC**, WONG FY, YIALLOUROU SR. A Mechanism for the Increased Risk of the Sudden Infant Death Syndrome in Infants Sleeping in the Prone Position. Scottish Cot Death Trust. Glasgow, United Kingdom, 7th September 2011.
259. **HORNE RSC**. Understanding the Mechanisms for The Sudden Infant Death Syndrome: What We Can Learn From Infant Sleep Studies. World Sleep 2011. Kyoto, Japan, 16-20th October 2011.
260. **HORNE RSC**, WALTER LM, NIXON GM, DAVEY MJ, O'DRISCOLL DM, TRINDER J. Sleep Disturbance in Pre-School Children with Obstructive Sleep Apnoea Syndrome. World Sleep 2011. Kyoto, Japan, 16-20th October 2011.
261. **HORNE RSC**, RICHARDSON HL. The Importance of Arousal from Sleep in SIDS. World Sleep 2011. Kyoto, Japan, 16-20th October 2011.
262. **HORNE RSC**, RICHARDSON HL, WALKER AM. Does Sleep Position Affect Arousal from Sleep Pathways in Infants Born Preterm? World Sleep 2011. Kyoto, Japan, 16-20th October 2011.
263. YIALLOUROU SR, WITCOMBE NB, SANDS SA, WALKER AM, **HORNE RSC**. Effects of Preterm Birth on the Maturation of Autonomic Control During Sleep in Infancy. The 38th Meeting of The Fetal and Neonatal Physiological Society (FNPS). Palm Cove, Australia, 10-13th July 2011.
264. **HORNE RSC**, YIALLOUROU SR, RICHARDSON HL, WONG FY. Why is Sleeping in the Prone Position a Risk for The Sudden Infant Death Syndrome? The 38th Meeting of The Fetal and Neonatal Physiological Society (FNPS). Palm Cove, Australia, 10-13th July 2011.
265. **HORNE RSC**. Is Sleep Disordered Breathing a Risk for Cardiovascular Disease in Children? The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
266. **HORNE RSC**. Pediatrics Year in Review: The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
267. NISBET L, WALTER L, YIALLOUROU S, TRINDER J, NIXON G, DAVEY M, **HORNE RSC**. Pulse Transit Time and the Cardiovascular Effects of Sleep Disordered Breathing: Is it a question of exposure time? The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
268. BIGGS SN, WALTER LM, JACKMAN AR, NISBET L, ANDERSON V, NIXON GM, DAVEY MJ, TRINDER J, HOFFMANN R, ARMITAGE R, **HORNE RSC**. Time Course of Slow-Wave EEG Activity in Pre-School Children with Sleep

- Disordered Breathing: A Possible Mechanism for Daytime Deficits. The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
269. SAHADAN S, DAVEY MJ, **HORNE RSC**, NIXON GM. Improving Detection of Obstructive Sleep Apnoea by Overnight Oximetry in Children Using Pulse Rate Parameters. The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 270. WALTER LM, NIXON GM, DAVEY MJ, ANDERSON V, TRINDER J, **HORNE RSC**. Sleep Disordered Breathing has a Marked Effect on the Polysomnographic Characteristics of Both Preschool and Primary School Aged Children. The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 271. NISBET L, WALTER LM, YIALLOUROU SR, TRINDER J, NIXON GM, DAVEY MJ, **HORNE RSC**. Breathe Easy: Heart Rate Variability is not Affected by Sleep Disordered Breathing in Preschool Children. The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 272. WALTER LM, NIXON GM, DAVEY MJ, O'DRISCOLL D, TRINDER J, **HORNE RSC**. Sleep Disturbance in Preschool Children with Obstructive Sleep Apnoea Syndrome. The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 273. BIGGS SN, BOURKE R, ANDERSON V, JACKMAN AR, KILLEDAR A, NIXON GM, DAVEY MJ, WALTER AM, TRINDER J, **HORNE RSC**. Comparison of Objective and Subjective Measures of Working Memory in Children with Sleep Disordered Breathing: What are we Really Assessing? The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 274. WALTER LM, NIXON GM, DAVEY MJ, ANDERSON V, TRINDER J, **HORNE RSC**. Should we Take Season in to Account when Assessing Sleep Disordered Breathing Severity in Australian Children? The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 275. KOURBASIS A, WALTER LM, NIXON GM, DAVEY MJ, **HORNE RSC**. Are Changes in Pulse Transit Time and Blood Pressure During Sleep Correlated in Children? The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 276. KOURBASIS A, WALTER LM, NIXON GM, DAVEY MJ, **HORNE RSC**. Long-Term Follow-Up of Sleep Disordered Breathing in Children: Time Does Not Heal All. The 23rd Annual Scientific Meeting of the Australian Sleep Association (ASA). Sydney, Australia, 27-29th October 2011.
 277. **HORNE RSC**. Cardiovascular vulnerability in the neonate – SIDS. Sansom Institute for Health Research Symposium. Adelaide, Australia, 12th December 2011.
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278. **HORNE RSC**. Behavioural and Neurocognitive Effects of Sleep Disordered Breathing in Children – Is it a Matter of Time? Mortimer D Sackler Winter Conference in Developmental Psychobiology. Hawaii, United States of America, 5-8th January 2012.
 279. FYFE K, ODOI A, COHEN E, YIALLOUROU SR, WONG FY, **HORNE RSC**. The effects of postnatal age on cerebral oxygenation during sleep in preterm infants. 26th annual Fetal and Neonatal workshop of Australia and New Zealand. Port Stephens, 16-17 March 2012.

280. FYFE K, ODOI A, COHEN E, YIALLOUROU SR, WONG FY, **HORNE RSC**. Effects of sleeping position on cerebral oxygenation in preterm infants. 17th Congress of the Federation of Asian and Oceania perinatal Societies and the 16th Annual Congress of the Perinatal Society of Australia and New Zealand, Sydney 18-21 March, 2012.
281. WALTER LM, NIXON GM, DAVEY MJ, ANDERSON V, TRINDER J, WALKER AM, **HORNE RSC**. Differential effects of Sleep Disordered Breathing on polysomnographic characteristics in reschool and elementary school-aged children. American Thoracic Society International Conference San Francisco May 18-23, 2012.
282. NISBET LC, WALTER LM, YIALLOUROU SR, TRINDER J, NIXON GM, DAVEY MJ, **HORNE RSC**. Pulse transit time to track blood pressure changes in children with sleep disordered breathing. American Thoracic Society International Conference San Francisco May 18-23, 2012.
283. NISBET LC, WALTER LM, YIALLOUROU SR, TRINDER J, NIXON GM, DAVEY MJ, **HORNE RSC**. Is heart rate variability affected by sleep disordered breathing in preschool children? American Thoracic Society International Conference San Francisco May 18-23, 2012.
284. NIXON GM, SAHADAN Z, HORNE RSC, **DAVEY MJ**. Improving detection of obstructive sleep apnea by overnight oximetry in children using pulse rate parameters. American Thoracic Society International Conference San Francisco May 18-23, 2012.
285. **HORNE RSC**, WALTER LM, YANG J, RICHARDSON H, O'DRISCOLL D, FOSTER A, WONG S, NG M, BASHIR F, PATTERSON G, NIXON GM, JOLLEY D, WALKER AM, ANDERSON V, DAVEY MJ. Nocturnal dipping of blood pressure and heart rate is not altered in school aged children with sleep disordered breathing regardless of its severity. 26th Annual Meeting of the Associated Professional Sleep Societies, Boston June 9-13, 2012.
286. NISBET LC, WALTER LM, YIALLOUROU SR, TRINDER J, NIXON GM, DAVEY MJ, **HORNE RSC**. Nocturnal dipping of blood pressure: Is it preserved in 3 to 5 year old children with sleep disordered breathing? 26th Annual Meeting of the Associated Professional Sleep Societies, Boston June 9-13, 2012.
287. NISBET LC, WALTER LM, YIALLOUROU SR, TRINDER J, NIXON GM, DAVEY MJ, **HORNE RSC**. Cardiovascular rise and fall: Obstructive events in 3-to-5 year old children with sleep disordered breathing. 26th Annual Meeting of the Associated Professional Sleep Societies, Boston June 9-13, 2012.
288. GOLDER V*, HEPPONSTALL M*, YIALLOUROU SR, ODOI A, **HORNE RSC**. Assessment of cardiovascular autonomic control in critically ill preterm infants during the first days of life. 21st Meeting of the European Sleep Research Society, Paris France 4-8 September 2012.
289. YIALLOUROU SR, WITCOMBE NB, SANDS SA, WALKER AM, HORNE RSC. Development of autonomic cardiovascular control in preterm infants is altered compared to term infants. 2012 International Conference on Stillbirth, SIDS and Infant Survival. Baltimore USA 4-7 October 2012.
290. NISBET L, WALTER LM, YIALLOUROU SR, TRINDER JA, NIXON GM, DAVEY MJ, **HORNE RSC**. Sleep disordered breathing does not effect nocturnal dipping of blood pressure in preschool children, The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA) Darwin, Australia October 10-13, 2012.
291. FYFE K, YIALLOUROU SR, WONG F, WALKER AM, **HORNE RSC**. Preterm birth is associated with reduced cerebral oxygenation during sleep, The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA) Darwin, Australia October 10-13, 2012.

292. NISBET L, WALTER L, YIALLOUROU SR, TRINDER J, NIXON G, DAVEY M, **HORNE RSC**. Sleep disordered breathing does not effect nocturnal dipping of blood pressure in preschool children, The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA) Darwin, Australia October 10-13 2012.
293. WALTER L, YIALLOUROU SR, VLAHANDONIS A, SANDS SA, JOHNSON C, DAVEY M, NIXON G, TRINDER J, **HORNE RSC**. Children with obstructive sleep apnoea have significantly increased blood pressure variability, The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA) Darwin, Australia October 10-13, 2012.
294. WALTER L, YIALLOUROU SR, VLAHANDONIS A, SANDS SA, JOHNSON C, DAVEY M, NIXON G, TRINDER J, **HORNE RSC**. Children with obstructive sleep apnoea have significantly dampened baroreflex to changes in blood pressure, The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA) Darwin, Australia October 10-13, 2012.
295. YIALLOUROU SR, POOLE H, PRATHIVADI P, WONG F, **HORNE RSC**. How does dummy sucking protect babies from the Sudden Infant Death Syndrome? The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA) Darwin, Australia October 10-13, 2012.
296. FYFE K, YIALLOUROU SR, WONG F, WALKER AM, **HORNE RSC**. The prone sleeping position may alter both systemic and cerebral vascular control in preterm infants, The 24th Annual Scientific Meeting of the Australian Sleep Association (ASA) Darwin, Australia October 10-13, 2012.
297. FYFE K, ODOI A, YIALLOUROU SR, WONG F, WALKER A, **HORNE RSC**. The Effects of Postnatal Age on Cerebral Oxygenation during Sleep in Preterm Infants. Fetal and Neonatal Workshop Barossa Valley South Australia, 12-13 April 2013.
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298. FYFE K, ODOI A, YIALLOUROU SR, WONG F, WALKER A, **HORNE RSC**. Preterm Birth Alters Cerebral Vascular Control during Sleep in the Prone Position. 17th Annual Congress of the Perinatal Society of Australia and New Zealand, Adelaide 14-17 April 2013.
299. YIALLOUROU SR, POOLE H, PRATHIVADI P, ODOI A, WONG FY, **HORNE RSC**. Cardiovascular control during sleep: a mechanism for the protective effect of dummies? 17th Annual Congress of the Perinatal Society of Australia and New Zealand, Adelaide 14-17 April 2013.
300. YIALLOUROU SR, POOLE H, PRATHIVADI P, ODOI A, WONG FY, **HORNE RSC**. Why are pacifiers protective for SIDS? Pediatric Academic Societies Washington DC 4-7 May 2013.
301. FYFE K, ODOI A, YIALLOUROU SR, WONG F, WALKER A, **HORNE RSC**. Cerebral oxygenation is reduced in preterm infants during sleep. Pediatric Academic Societies Washington DC 4-7 May 2013.
302. FYFE K, ODOI A, YIALLOUROU SR, WONG F, WALKER A, **HORNE RSC**. Cerebral Oxygenation is reduced in the Prone Sleep Position in Preterm Infants: Implications for the Sudden Infant Death Syndrome. 27th annual meeting of the Associated Professional Sleep Societies, Baltimore USA 1-5 June, 2013.
303. FYFE K, ODOI A, YIALLOUROU SR, WONG F, WALKER A, **HORNE RSC**. Prone Sleeping Alters Cerebral Vascular Control in Preterm Infants. 27th annual meeting of the Associated Professional Sleep Societies, Baltimore USA 1-5 June, 2013.
304. BIGGS, SN, VLAHANDONIS, A, WALTER, LM, ANDERSON, V, DAVEY, MJ, NIXON, GM, **HORNE, RSC**. Parents continue to report behavior problems in school-

- aged children 4 years after treatment for sleep disordered breathing. 27th annual meeting of the Associated Professional Sleep Societies, Baltimore USA 1-5 June, 2013.
305. BIGGS SN, NIXON GM, DAVEY MJ, HORNE RSC. Slow wave activity in children with excessive daytime sleepiness: A potential role in identification of narcolepsy (Poster). Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 306. NIXON GM, HYDE M, WALTER LM, DAVEY MJ, HORNE RSC. The impact of the new AASM respiratory scoring rules in paediatrics. (poster) Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 307. LIN SC, BIGGS SN, DAVEY MJ, HORNE RSC AND NIXON GM. Screening for OSA in children with Down Syndrome. (poster) Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 308. NIXON GM, RANASINHA S, ODOI A, WEICHARD A, DAVEY MJ, HORNE RSC. Predicting significant obstructive sleep apnoea in children from clinical measures. (oral presentation) Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 309. WALTER LM, NISBET L, NIXON GM, DAVEY MJ, ANDERSON V, HORNE RSC. Long term improvement in sleep disordered breathing severity and sleep parameters following treatment in preschool children. Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 310. WALTER LM, NISBET L, NIXON GM, DAVEY MJ, ANDERSON V, HORNE RSC. Treatment provides long term improvement in the quality of life in preschool children with sleep disordered breathing. Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 311. ODOI A, ANDREW S, WONG F, YIALLOUROU S, HORNE RSC. Dummy use in infants does not increase spontaneous arousability during sleep in either the prone and supine sleeping position. (poster) Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 312. DECIMA P, FYFE K, ODOI A, YIALLOUROU S, WONG F, HORNE RSC. The effects of persistent periodic breathing in preterm infants after hospital discharge. (poster) Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.
 313. VANDELEUR M, NIXON GM, ARMSTRONG D, ROBINSON P, HORNE RSC. Mood in Children with Stable Cystic Fibrosis: Associations with sleep quality. (poster) Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Brisbane, Australia., 16-20 October 2013.
 314. VANDELEUR M, NIXON GM, ARMSTRONG D, ROBINSON P, HORNE RSC. Sleep Quality and Overnight Oximetry in Children with Cystic Fibrosis. (poster) Sleep DownUnder 25th Annual Scientific Meeting of Australasian Sleep

Association and Australasian Sleep Technologists Association. Brisbane, Australia, 16-20 October 2013.

315. BIGGS SN, LUSHINGTON K, HORNE RSC. Sleep duration and sleep/wake patterns in children: Implications for behavioural development. Australian Psychological Society Educational and Development. Melbourne, Australia, March 28-29, 2014.

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316. VANDELEUR M, NIXON GM, ARMSTRONG D, ROBINSON P, HORNE RSC. Sleep quality in children with cystic fibrosis: associations with mood. Thoracic Society of Australia and New Zealand Annual Scientific Meeting, Adelaide, Australia 4-9 April 2014.
317. DECIMA P, FYFE K, ODOI A, YIALLOUROU S, WONG F, **HORNE RSC.** Persistent periodic breathing and cerebral oxygenation deficits in preterm infants. 18th Annual Congress of the Perinatal Society of Australia and New Zealand, Perth, Australia, April 6-9, 2014.
318. FYFE K, ODOI A, YIALLOUROU S, WONG F, WALKER AM, **HORNE RSC.** Parasympathetic activity is reduced during sleep in very preterm infants. 18th Annual Congress of the Perinatal Society of Australia and New Zealand, Perth, Australia, April 6-9, 2014.
319. WALTER LM, NISBET LE, NIXON GM, ANDERSON V, DAVEY MJ, HORNE RSC. Cyclic respiratory events in preschool children are associated with higher heart rate than isolated respiratory events. Associated Professional Sleep Societies Minneapolis, USA, May 31 – June 4, 2014.
320. WALTER LM, NISBET LE, NIXON GM, ANDERSON V, DAVEY MJ, HORNE RSC. Treatment provides long term improvements in sleep disordered breathing severity and sleep parameters in preschool children. Associated Professional Sleep Societies Minneapolis, USA, May 31 – June 4, 2014.
321. DECIMA P, FYFE K, ODOI A, YIALLOUROU SR, WONG F, HORNE RSC. Cerebral oxygenation deficits are associated with persistent periodic breathing in preterm infants after hospital discharge. 41st Annual Meeting of the Fetal and Neonatal Physiological Society, Saint Vincent, Italy, August 31 – September 3, 2014.
322. FYFE K, ODOI A, YIALLOUROU SR, WONG F, WALKER A, HORNE RSC. Preterm infants exhibit greater variability in cerebrovascular control compared to term infants. Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
323. FYFE K, YIALLOUROU SR, WONG F, ODOI A, WALKER A, HORNE RSC. Gestational age at birth affects the maturation of baroreflex sensitivity. Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
324. BIGGS SN, LAPPIN C, GOODIN J, NIXON GM, DAVEY MJ, HORNE RSC. Slow wave activity is associated with executive function deficits in children with sleep disordered breathing. Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
325. HORNE RSC. Should we be worried about paediatric central sleep apnoea? Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
326. NGIAM J, WEICHARD AJ, SUTHERLAND K, PARMINDER S, DAVEY MJ, HORNE RSC, CISTULLI P, NIXON G. Photographic assessment of craniofacial phenotype in children with O.S.A: A feasibility study. Sleep DownUnder 26th Annual

- Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
327. NISBET LC, WALTER LM, DAVEY MJ, NIXON GM, HORNE RSC. Can neck and waist circumference be used as indicators of paediatric obstructive sleep apnoea severity? Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
 328. NIXON GM, CIKOR N, ROWE K, DAVEY MJ, HORNE RSC, WALTER LM. Refining the OSA-18 questionnaire for prediction of OSA in children- can we improve it? Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
 329. NIXON GM, RANASINHA S, WEICHARD A, DAVEY MJ, HORNE RSC. A prediction model for the presence of moderate/severe obstructive sleep apnoea in childhood based on clinical findings and oximetry. Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
 330. WALTER LM, NISBET LC, WEICHARD AJ, HOLLIS SL, ANDERSON V, NIXON GM, DAVEY MJ, HORNE RSC. Long-term cardiovascular impairment in preschool-aged children with unresolved sleep disordered breathing. Sleep DownUnder 26th Annual Scientific Meeting of Australasian Sleep Association and Australasian Sleep Technologists Association. Perth, Australia, 9-11 October, 2014.
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393. **HORNE RSC**, SUN S, YIALLOUROU,SR, FYFE KL, ODOI A, WONG FY. Comparison of the longitudinal effects of persistent periodic breathing and apnoea on cerebral oxygenation in term and preterm-born infants. 45th Annual Meeting of the Fetal and Neonatal Physiological Society, Maastricht, The Netherlands 24-27 June, 2018.
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Inquiry into the convictions of Kathleen Megan Folbigg

8 November 2018

Professor Rosemary Horne
Research Group Head, Infant and Child Health
The Richie Institute, Hudson Institute of Medical Research
27-31 Wright Street
CLAYTON VIC 3168

By email: rosemary.horne@hudson.org.au

Dear Professor Horne

Letter of engagement

Summary

On 22 August 2018 the Governor of New South Wales directed that an inquiry be held into the convictions of Kathleen Megan Folbigg for three counts of murder, one count of manslaughter and one count of maliciously inflicting grievous bodily harm in respect of her four children on 21 May 2003 ("the Inquiry"). The Crown Solicitor is the Solicitor Assisting the Honourable Reginald Oliver Blanch AM QC ("the Judicial Officer") with the Inquiry.

As discussed, you are engaged to prepare an expert report for the Inquiry which identifies and explains:

1. any new research or advances in medical science since trial relevant to the causes of death of any of the children and/or the cause of the apparent or acute life threatening event in respect of Patrick; and
2. any new research or literature concerning the incidence of reported deaths of three or more infants in the same family attributed to unidentified natural causes.

It is requested that you provide your report to Amber Richards, Senior Solicitor for the Crown Solicitor, by **Friday 7 December 2018**.

You may also be required to give oral evidence at the public hearings of the Inquiry. It is expected the hearings will take place at the Industrial Relations Commission Building located on 47 Bridge Street, Sydney in **late February or early March 2019**. We will contact you once the hearing dates for the Inquiry have been listed.

Inquiry into the convictions of Kathleen Megan Folbigg

Level 2 | Industrial Relations Commission | 47 Bridge Street | SYDNEY NSW 2000

T (02) 9258 0832 | **E** folbigg.inquiry@justice.nsw.gov.au

W <https://www.folbigginquiry.justice.nsw.gov.au>

Background

Trial

Between 1 April 2003 and 21 May 2003, Ms Folbigg stood trial in the Supreme Court before Barr J and a jury, upon an indictment containing five counts in respect of the deaths of her four infant children. Those counts were as follows:

- Count 1:** the murder, on 20 February 1989, of Caleb Gibson Folbigg, 19 days old.
- Count 2:** maliciously inflict, on 18 October 1990, grievous bodily harm upon Patrick Allen Folbigg with intent to do grievous bodily harm, 4 months old.
- Count 3:** the murder, on 13 February 1991, of Patrick Allen Folbigg, 8 months old.
- Count 4:** the murder, on 30 August 1993, of Sarah Kathleen Folbigg, 10 months old.
- Count 5:** the murder, on 1 March 1999, of Laura Elizabeth Folbigg, 19 months old.

The essential issue at trial was whether the Crown could establish that each child's death and Patrick's apparent life threatening event ("ALTE") was a result of a deliberate act of suffocation and not the result of natural causes. The Crown case was that the deaths and the ALTE; the circumstances in which they occurred (including by way of coincidence reasoning); evidence of Ms Folbigg's relationships with, and attitude towards, each child; entries made by Ms Folbigg in her diaries (some of which were said to amount to admissions); and the medical evidence, established that the only rational inference open was that Ms Folbigg unlawfully killed each child.

On 21 May 2003, the jury found Ms Folbigg guilty of three counts of murder in respect of Patrick, Sarah and Laura; one count of manslaughter in respect of Caleb; and one count of maliciously inflict grievous bodily harm in respect of Patrick in respect of the ALTE.

Ms Folbigg was sentenced on 24 October 2003 to an overall sentence of imprisonment of 40 years with a non-parole period of 30 years. This was later reduced on appeal to 30 years' imprisonment with a non-parole period of 25 years and she remains incarcerated at Silverwater Women's Correctional Centre. Ms Folbigg brought appeals against conviction on 17 February 2005, 2 September 2005 and 21 December 2007. These appeals were unsuccessful.

Petition for review of conviction

After having exhausted her right of appeal, on 10 June 2015, pursuant to s. 76 *Crimes (Appeal and Review) Act 2001* ("the CAR Act") a petition on behalf of Ms Folbigg was presented to the Governor of New South Wales seeking an inquiry into her convictions. Accompanying Ms Folbigg's petition were several expert reports, including:

- an undated report by Professor Stephen Cordner (forensic pathologist); and
- a report dated 1 June 2015 by Dr Michael Pollanen (forensic pathologist).

Direction

On 22 August 2018, the Governor of New South Wales issued a Direction pursuant s. 77(1)(a) of the *CAR Act* that an inquiry be conducted into the convictions of Ms Folbigg. The primary focus of the Inquiry is expected to be on expert medical evidence, including:

- Any new research or advances in medical science relevant to the causes of death of each child and the cause of the apparent or acute life threatening event in respect of Patrick.
- Expert medical opinion as to the causes of death of each child and the cause of the apparent or acute life threatening event in respect of Patrick in light of any relevant new research or advances in medical science.
- Any new research or literature concerning the incidence of reported deaths of three or more infants in the same family attributed to unidentified natural causes.
- Any other related expert medical evidence.

Preparation of your report

The Inquiry would be assisted if you could prepare a report which includes the following, having regard to the material with which you are briefed:

1. any new research or advances in medical science since trial relevant to the causes of death of any of the children and/or the cause of the apparent or acute life threatening event in respect of Patrick; and
2. any new research or literature concerning the incidence of reported deaths of three or more infants in the same family attributed to unidentified natural causes.

The report should only offer opinions on these matters to the extent that they are based upon your knowledge, training and fields of specialist expertise.

In preparing your report, please:

- i. identify (and reference as appropriate) any facts and assumptions from materials upon which you rely;
- ii. show how those facts and assumptions relate to your opinions;
- iii. provide an explanation of your reasons for each of your opinions; and
- iv. if necessary, set out any qualification or reservations you have about the opinions expressed in your report (for instance, because of reservations you hold about a fact, or if further research or information is required, or for any other reason).

Documents with which you are briefed

For the purpose of your engagement, you are briefed with the following documents (as set out in **Annexure A** to this letter):

1. Medical testing of Patrick Folbigg dated 13 February 1991;

2. Letter to Dr Bridget Wilcken re newborn blood sample dated 11 October 1999;
3. Genetics report re death of Caleb Folbigg dated 13 January 2000;
4. Genetics report re death of Patrick Folbigg dated 13 January 2000;
5. Genetics report re death of Sarah Folbigg dated 13 January 2000;
6. Genetics report re death of Laura Folbigg dated 13 January 2000;
7. Expert Certificate of Dr Bridget Wilcken and exhibits 1a – 1d dated 14 January 2000:
 - 8.a. N.S.W Biochemical Genetics Service Report of Patrick Folbigg dated 13 February 1991.
 - 8.b Letter from Dr Alison Colley to Dr Bridget Wilcken regarding Caleb and Patrick Folbigg dated 4 December 1991.
 - 8.c Letter from Dr Bridget Wilcken to Dr Alison Colley regarding Caleb and Patrick Folbigg dated 10 December 1991.
 - 8.d NSW Newborn Screening Programme Report re Caleb, Patrick, Sarah and Laura Folbigg dated 13 January 2000.
8. Report of Professor Peter Berry dated November 2000;
9. Letter from Dr Alison Colley to Dr Bridget Wilcken dated 27 February 1992;
10. Letter from Professor David Isaacs re testing for serum levels of IgG of Folbigg children dated 3 March 2003;
11. Facsimile from Dr J. Vivian Wells re IgG levels dated 5 March 2003;
12. Medical Testing for IgG deficiency, prolonged QT and "Druckers" Gene dated 7 March 2003;
13. Letter from Dr Allan Cala re IL-10 Gene theory dated 19 March 2003;
14. Letter from Dr John Christodoulou to J Culver regarding genetic causes of some cases of SIDS dated 18 February 2003;
15. Summary of present situation re medical investigations prepared by Peter Krisenthal, Legal Aid dated 27 February 2003;
16. Letter from John Hilton to ODPP re genetic testing of Folbigg Children dated 27 February 2003;
17. Transcript of evidence of Doctor Bridget Wilcken at trial (pages 817-823) 16 April 2003;
18. Supplementary Report of Professor Peter Berry regarding Dr Drucker's work on IL-10 gene polymorphism theory dated 26 March 2003;
19. Final Report of Professor Blackwell dated 8 May 2014;

20. Article "Exploring the risk factors for sudden infant deaths and their roles in inflammatory responses to infection" (Frontiers in Immunology, Volume 6, Article 44) by Caroline Blackwell, Sophia Moscovis, Sharron Hall, Christine Burns and Rodney J. Scott, March 2015; and
21. Chapters from Book, SIDS - Sudden infant and early childhood death: The past, the present and the future edited by Jhodie R. Duncan and Roger W. Byard (University Adelaide Press 2018):
- 21.a Chapter 2 – Sudden Infant Death Syndrome: An Overview by Jhodie R Duncan and Roger W Byard.
- 21.b Chapter 14 – Future Directions in Sudden Unexpected Death in Infancy Research by Heather E Jeffery.
- 21.c Chapter 30 – Cytokines, Infection, and Immunity by Siri Hauge Opdal.
- 21.d Chapter 31 – The Genetics of Sudden Infant Death Syndrome by Catherine A Brownstein, Annapurna Poduri, Richard D Goldstein and Ingrid A Holm.

If you believe you would be assisted by any further documents, please advise Ms Richards of the same.

Giving of evidence before the Inquiry

You may be required to give evidence orally before the Inquiry at the public hearings. It is expected the hearings will take place at the Industrial Relations Commission Building located on 47 Bridge Street, Sydney in **late February or early March 2019**. We will contact you once the hearing dates for the Inquiry have been listed. Please also keep us informed of any planned periods of leave.

Expert Code of Conduct and Curriculum Vitae

At **Annexure B** to this letter I set out the Expert Witness Code of Conduct and ask that you read it carefully. In the report you should acknowledge that you have read the Code and agree to be bound by it. I suggest the following form of words be included in the body of your report:

"I, Professor Rosemary Horne, acknowledge for the purpose of Rule 31.23 of the Uniform Civil Procedure Rules 2005 that I have read the Expert Witness Code of Conduct in Schedule 7 to the said rules and agree to be bound by it."

I also request that you please attach a copy of your curriculum vitae to your report.

Confidentiality

Please ensure you keep your engagement, the documents with which you are briefed, and your report **confidential**.

Invoices

It is essential to comply with Australian Taxation Office requirements that any invoice issued be addressed to the business name: NSW Crown Solicitor's Office.

If an amount for GST is to be included in your fee, you will need to cite your ABN and either:

- Indicate that the fee is inclusive of GST; or
- Separately indicate the amount of GST charged.

Conclusion

Please do not hesitate to contact Amber Richards on (02) 9258 0832 or amber.richards@cso.nsw.gov.au if you have any queries or require anything further to assist in the preparation of your report.

Kind regards

Amber Richards
Senior Solicitor
for Crown Solicitor

Encl.

ANNEXURE A

Index to briefing documents for Professor Rosemary Horne

Tab	Document	Date
1.	Medical testing of Patrick Folbigg	13 February 1991
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3.	Genetics report re death of Caleb Folbigg	13 January 2000
4.	Genetics report re death of Patrick Folbigg	13 January 2000
5.	Genetics report re death of Sarah Folbigg	13 January 2000
6.	Genetics report re death of Laura Folbigg	13 January 2000
7.	Expert Certificate of Dr Bridget Wilcken and exhibits 1a – 1d:	14 January 2000
8.a	N.S.W Biochemical Genetics Service Report of Patrick Folbigg	13 February 1991
8.b	Letter from Dr Alison Colley to Dr Bridget Wilcken regarding Caleb and Patrick Folbigg	4 December 1991
8.c	Letter from Dr Bridget Wilcken to Dr Alison Colley regarding Caleb and Patrick Folbigg	10 December 1991
8.d	NSW Newborn Screening Programme Report re Caleb, Patrick, Sarah and Laura Folbigg	13 January 2000
8.	Report of Professor Peter Berry	November 2000
9.	Letter from Dr Alison Colley to Dr Bridget Wilcken	27 February 1992
10.	Letter from Professor David Isaacs re testing for serum levels of IgG of Folbigg children	3 March 2003
11.	Facsimile from Dr J. Vivian Wells re IgG levels	5 March 2003
12.	Medical Testing for IgG deficiency, prolonged QT and "Druckers" Gene	7 March 2003
13.	Letter from Dr Allan Cala re IL-10 Gene theory	19 March 2003
14.	Letter from Dr John Christodoulou to J Culver regarding genetic causes of some cases of SIDS	18 February 2003
15.	Summary of present situation re medical investigations prepared by Peter Krisenthal, Legal Aid	27 February 2003
16.	Letter from John Hilton to ODPP re genetic testing of Folbigg Children	27 February 2003

Tab	Document	Date
17.	Transcript of evidence of Dr Bridget Wilcken at trial (pages 817-823)	16 April 2003
18.	Supplementary Report of Professor Peter Berry regarding Dr Drucker's work on IL-10 gene polymorphism theory	26 March 2003
19.	Final Report of Professor Blackwell	8 May 2014
20.	Article, Exploring the risk factors for sudden infant deaths and their role in inflammatory responses to infection (frontiers in immunology, Volume 6, Article 44) by Caroline Blackwell, Sophia Moscovis, Sharron Hall, Christine Burns and Rodney J. Scott	March 2015
21.	Chapters from Book, SIDS - Sudden infant and early childhood death: The past, the present and the future edited by Jhodie R. Duncan and Roger W. Byard (University Adelaide Press 2018):	
21.a	Chapter 2 – Sudden Infant Death Syndrome: An Overview by Jhodie R Duncan and Roger W Byard	
21.b	Chapter 14 – Future Directions in Sudden Unexpected Death in Infancy Research by Heather E Jeffery	
21.c	Chapter 30 – Cytokines, Infection, and Immunity by Siri Hauge Opdal	
21.d	Chapter 31 – The Genetics of Sudden Infant Death Syndrome by Catherine A Brownstein, Annapurna Poduri, Richard D Goldstein and Ingrid A Holm	

ANNEXURE B

Uniform Civil Procedure Rules 2005, Sch 7: Expert Witness Code of Conduct

1 Application of code

This code of conduct applies to any expert witness engaged or appointed:

- (a) to provide an expert's report for use as evidence in proceedings or proposed proceedings, or
- (b) to give opinion evidence in proceedings or proposed proceedings.

2 General duties to the Court

An expert witness is not an advocate for a party and has a paramount duty, overriding any duty to the party to the proceedings or other person retaining the expert witness, to assist the court impartially on matters relevant to the area of expertise of the witness.

3 Content of report

Every report prepared by an expert witness for use in court must clearly state the opinion or opinions of the expert and must state, specify or provide:

- (a) the name and address of the expert, and
- (b) an acknowledgement that the expert has read this code and agrees to be bound by it, and
- (c) the qualifications of the expert to prepare the report, and
- (d) the assumptions and material facts on which each opinion expressed in the report is based (a letter of instructions may be annexed), and
- (e) the reasons for and any literature or other materials utilised in support of each such opinion, and
- (f) (if applicable) that a particular question, issue or matter falls outside the expert's field of expertise, and
- (g) any examinations, tests or other investigations on which the expert has relied, identifying the person who carried them out and that person's qualifications, and
- (h) the extent to which any opinion which the expert has expressed involves the acceptance of another person's opinion, the identification of that other person and the opinion expressed by that other person, and
- (i) a declaration that the expert has made all the inquiries which the expert believes are desirable and appropriate (save for any matters identified explicitly in the report), and that no matters of significance which the expert regards as relevant have, to the knowledge of the expert, been withheld from the court, and
- (j) any qualification of an opinion expressed in the report without which the report is or may be incomplete or inaccurate, and
- (k) whether any opinion expressed in the report is not a concluded opinion because of insufficient research or insufficient data or for any other reason, and

(l) where the report is lengthy or complex, a brief summary of the report at the beginning of the report.

4 Supplementary report following change of opinion

(1) Where an expert witness has provided to a party (or that party's legal representative) a report for use in court, and the expert thereafter changes his or her opinion on a material matter, the expert must forthwith provide to the party (or that party's legal representative) a supplementary report which must state, specify or provide the information referred to in clause 3 (a), (d), (e), (g), (h), (i), (j), (k) and (l), and if applicable, clause 3 (f).

(2) In any subsequent report (whether prepared in accordance with subclause (1) or not), the expert may refer to material contained in the earlier report without repeating it.

5 Duty to comply with the court's directions

If directed to do so by the court, an expert witness must:

- (a) confer with any other expert witness, and
- (b) provide the court with a joint report specifying (as the case requires) matters agreed and matters not agreed and the reasons for the experts not agreeing, and
- (c) abide in a timely way by any direction of the court.

6 Conferences of experts

Each expert witness must:

- (a) exercise his or her independent judgment in relation to every conference in which the expert participates pursuant to a direction of the court and in relation to each report thereafter provided, and must not act on any instruction or request to withhold or avoid agreement, and
- (b) endeavour to reach agreement with the other expert witness (or witnesses) on any issue in dispute between them, or failing agreement, endeavour to identify and clarify the basis of disagreement on the issues which are in dispute.