NEONATOLOGY

STAFF

Dr Zsuzsoka Kecskes - Dr Med FRACP PhD, Staff Specialist Department of Neonatology, The Canberra Hospital, Senior Lecturer ANUMS

Dr Alison Kent – MBBS, FRACP, Staff Specialist and Senior Lecturer ANUMS, Department of Neonatology, The Canberra Hospital

Associate Professor William McGuire – MD, FRACP, Senior Staff Specialist

Dr David Todd, Neonatologist, FIMLS, MSc, PhD, MBBS, Neonatal CMO and Lecturer

COLLABORATIVE ASSOCIATES

Associate Professor David Croaker – MBBS FRACS FRCS PhD, Dept of Paediatric Surgery, TCH, ANUMS, Canberra

Dr Michael Falk – Nephrologist

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Associate Professor David Willenborg - ANU

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Professor Rosemary Martin - BSc MSc PhD Grad Dip High Ed, School of Biochemistry and Molecular Biology, Australian National University, Canberra

Belinda Schiller – BSc, School of Biochemistry and Molecular Biology, Australian National University, Canberra

Assoc Professor Jane Dahlstrom – Staff Specialist – Anatomical Pathology, Assoc Prof ANUMS

Dr Jeremy Smith, Senior Staff Specialist, Ophthalmology, Westmead Hospital, Westmead.

Mr Christian Saville, Senior project engineer, Fisher & Paykel Healthcare (F&P) East Tamaki, Auckland New Zealand

Professor Tony Postle, Inflammation and repair Southampton University Southampton

Dr Michael Marsh Senior Staff Specialist, PICU, Southampton General

hospital Southampton Hampshire UK

Dr Michael Cole, Senior Staff Specialist, Neonatology, Westmead Hospital, Westmead

Dr Marilyn Rochefort, Senior Staff Specialist, Neonatology, Westmead Hospital, Westmead

Dr Sasher Meyer, Senior registrar, Neonatology, The Canberra Hospital

STUDENTS

Ms Belinda Schiller, PhD student, School of Biochemistry and Molecular Biology 2005 co-supervisor

Ms Katie Gardner, ANUMS, year 1, science project 2005

Ms Sarah Catford – MBBS ANUMS

Ms Sarah Bombell – MBBS ANUMS

Ms M Stevens – Australian National University, Co-Supervisor of PhD ANU with Professor M Peek and Dr P McCullagh

The role of thyroid hormones in foetal lung development

RESEARCH PROJECTS

Normal values for first passage of meconium in neonates: evidence that the human GI tract continues to mature up to term.
Review of data for premature infants in regards to passage of meconium with clinical implications in relation to normative data and pathology.

Increase of IGFBP1 following hypoxia in the piglet.
Insulin Like Growth Factor Binding Proteins (IGFBPs) may be more directly related to ischaemic injury than factors such as pH and lactate, which relate to hypoxia and anaerobic metabolism. The aim of this study was to determine if IGFBP1 increases following a hypoxic insult in an animal model and to establish its possible role as an early predictor of outcome.

Hypoxia alters GABAA-subunit composition: implications for neural rescue therapy?
Neuronal death following a hypoxic/ischaemic insult is thought to be caused by excitotoxicity, mediated via glutamate, the major excitatory neurotransmitter found in the central nervous system. γ-amino butyric acid (GABA) is the major inhibitory neurotransmitter in the brain. This study examines the changes on the composition of the GABAA receptors by hypoxia in an animal model. It is essential to examine this research question as it would not only explain the varying degrees of cerebral damage after a hypoxic insult but also would explain why studies using neuroprotective drugs in neonates have not been successful.

Protein 14-3-3 in the CSF of Newborn Rats Following Hypoxia-Ischaemia.
To measure protein 14-3-3 in the CSF of newborn rats following a HI insult. This will determine if protein 14-3-3- can be used as a marker of brain damage after asphyxia with the potential to identify babies that may benefit from neuroprotective strategies in the future.

Diagnostic proteomic approach to identification of hypoxic-ischaemic neonatal brain injury in rats.
The study uses a proteomic approach, novel to perinatal asphyxia, to examine changes in protein expression with time after an hypoxic insult in an animal model of neonatal asphyxia. This will aid in the identification of severely damaged babies and in the prediction of outcome.

Continuous Non-Invasive Assessment of Fluid Status In Low Birth Weight Infants.
Disturbances in fluid and electrolyte homeostasis are common in preterm infants, however even moderate disturbances can compromise the function of several organs. MFBIA has the potential to provide continuous cot-side monitoring of changes in fluid balance, allowing the clinician to immediately determine trends, and any impact of fluid management alterations.

Magnesium sulfate for term infants with perinatal asphyxia. The objective of the meta-analysis is to determine the effects of magnesium sulfate given after birth on short-term and long-term outcomes in term infants following perinatal asphyxia.

Blood Pressure in Australian Term Neonates (BIN study). Dr A Kent, Dr Z Kecskes, Dr M Falk. To determine nomograms for normal blood pressure in infants in the current era.

Blood Pressure in Neonates of Mothers with Essential Hypertension, Pregnancy Induced Hypertension, and Gestational or Insulin Dependent Diabetes (BIN II Study). Dr A Kent, Dr M Falk. To determine whether there is pre-programming of hypertension in neonates of mothers with hypertension and diabetes.

Protein 14-3-3 in CSF Following Hypoxia-Ischaemia in the Newborn Rat Model. Dr Z Kecskes, Dr A Kent, Professor J Dahlstrom and Professor I Hendry. To determine whether Protein 14-3-3 can be detected in the CSF following hypoxia-ischaemia.

Study of indomethacin and ibuprofen and glomerular development in an animal model (SING study). (Dr Kent, Dr MC Falk, Professor J Dahlstrom, Dr David Willenborg). To determine whether Indomethacin and Ibuprofen impair glomerular development during glomerulogenesis.

Retinopathy of prematurity in preterm infants <30 weeks' gestation at in NSW and the ACT. Dr David Todd and Dr Marilyn Rochefort, review of data from the NICUS data base from 1992 to 2002

Histologic chorioamnionitis and outcome in infants ≤ 32 weeks gestational age.

Inspired humidity and temperature variations with the Fisher & Paykel (F&P) MR850 humidifier base during ventilation. Dr David Todd and Mr Christian Saville

Evaluation of the Hemocue® glucose 201 analyser in a neonatal population. Cuvettes and instruments supplied by HemoCue Australia (Dr David Todd and Dr Michael Cole

The evaluation of an ultrasonic cardiac output monitor (USCOM) in newborn infants. Dr David Todd and Dr Sasher Meyer

Methods of weaning CPAP in premature babies. A prospective randomised multicentre controlled trial. Dr David Todd and Dr Marilyn Rochefort

Acute lung injury in children: Surfactant phospholipid, surfactant proteins and inflammatory changes Professor Tony Postle and Dr Michael Marsh

CLINICAL TRIALS

CAP (caffeine for apneoa of prematurity), Multicentre- randomised trial assessing the effects of caffeine with long-term follow-up, Neonatal Trials Group, Henderson Research Centre, Hamilton, Ontario, Canada

INIS (International Neonatal Immunotherapy Study), A multicentre randomised trial to assess efficacy and long-term outcome of immunoglobulins in neonatal septicaemia NHMRC Clinical Trials Centre, Sydney, NSW

ICE (Infant Cooling Evaluation), A multicentre randomised trial to assess efficacy and long-term outcomes of hypothermia after perinatal asphyxia in term infants, Royal Women's Hospital, Carlton,Victoria

NUMAX trial, A multicentre randomised trial to assess efficacy of a monoclonal RSV antibody for the prophylaxis of serious RSV disease. MedImmune Inc, Gaithersburg, MD, USA

FUNDING

2003 The Canberra Hospital Private Practice Trust Fund $44,000, *Ongoing Blood Pressure In Australian Neonates*

2004 The Canberra Hospital Private Practice Trust Fund $1,400, *Protein 14-3-3 in CSF Following Hypoxia-Ischaemia in the Newborn Rat Model*

2004 ACT MHRC $18,000, *Protein 14-3-3 in CSF Following Hypoxia-Ischaemia in the Newborn Rat Model*

2004 The Canberra Hospital Private Practice Fund Research Grant

2004 ACT HMRC

2005 The Canberra Hospital Private Practice Fund $10,600, *Study of indomethacin and ibuprofen on glomerular development in an animal model.*

2005 The Canberra Hospital Private Practice Fund $15,200

Size of Kidneys in Premature Infants.

2005 ACT HMRC

2005 The Canberra Hospital Private Practice Fund

2006 The Canberra Hospital Private Practice Fund $9,900, The evaluation of an ultrasonic cardiac output monitor (USCOM) in newborn infants. Funding for the renting of USCOM monitor for 6 months.

Travel and accommodation to Auckland NZ by F&P Healthcare to conduct measurements on the F&P MR 850

PUBLICATIONS

Kecskes Z, Hendry I, Bowling FG, Burke C, Colditz PB. *Increase of IGFBP1 following hypoxia in the piglet.* Pediatric Research 2004; Volume 56 (3): 486.

Kecskes Z, Dodd P, Hendry I, Colditz PB. *Hypoxia alters GABA-A subunit composition: Implications for neural rescue therapy?* Pediatric Research 2004; Volume 56 (3): 486.

Kecskes Z, Hendry I, Bowling FG, Burke C, Colditz PB. *Increase of IGFBP1 following hypoxia in the piglet.* Proceedings of the 8th Annual Congress of the Perinatal Society of Australia and New Zealand; 2004 Mar 9–13, Sydney, Australia. Sydney: PSANZ; 2004:A73

Kecskes Z, Dodd P, Hendry I, Colditz PB. *Hypoxia alters GABA-A subunit composition: Implications for neural rescue therapy?* Proceedings of the 8th Annual Congress of the Perinatal Society of Australia and New Zealand; 2004 Mar 9–13, Sydney, Australia. Sydney: PSANZ; 2004:P17

Francis VJB, Kecskes Z. *Friend or foe: an unusual cause of hypoglycaemia.* Proceedings of the 8th Annual Congress of the Perinatal Society of Australia and New Zealand; 2004 Mar 9–13, Sydney, Australia. Sydney: PSANZ; 2004:P58

Akima S, Kent A, Reynolds GJ, Davy D, Gallagher M, Falk MC. *Indomethacin and Renal Impairment in Neonates.* Pediatric Nephrology, 2004; 19: 490–493.

Morris S, Akima S, Dahlstrom JE, Kent A, Ellwood D, Falk MC. *Proximal renal tubular dysgenesis and neonatal hemochromatosis with normal pulmonary development.* Pediatric Nephrology, 2004; 19: 341–4.

Kent A, Dahlstrom JE. *Chorioamnionitis/ Funisitis and the Development of Bronchopulmonary Dysplasia in Premature Infants.* J Paed and Child Health 2004; 40: 356–359.

Kent A, Simpson E, Ellwood D, Silink M. 46, XY *Sex-Reversal (Swyer Syndrome) and Congenital Diaphragmatic Hernia.* Am J Med Genet, 2004; 131A: 103–105.

Kecskes Z, Healy G, Jensen A. *Fluid restriction for term infants with hypoxic-ischaemic encephalopathy following perinatal asphyxia.* The Cochrane Database of Systematic Reviews 2005, Issue 3

Kecskes Z, Dunster KR, Colditz PB. *NSE and S100 after hypoxia in the newborn pig.* Pediatric Research 2005;38 (5): 953–7.

Bhola K, Hallam L, Falk MC, Kent A, Kecskes Z. *Double trouble: A case of proximal renal tubular dysgenesis in a donor survivor of twin-to-twin transfusion syndrome.* Proceedings of the 9th Annual Congress of the Perinatal Society of Australia and New Zealand, Adelaide, Australia, March 2005: P12

Dhawan A, Jyoti R, Kecskes Z, Kent AL. Early *MRI findings in neonatal herpes encephalitis.* Proceedings of the 9th Annual Congress of the Perinatal Society of Australia and New Zealand, Adelaide, Australia, March 2005: P43

Francis B, Hallam L, Kecskes Z, Kent AL. *Placental mesenchymal dysplasia associated with hepatic mesenchymal hamartoma in the newborn.* Proceedings of the 9th Annual Congress of the Perinatal Society of Australia and New Zealand, Adelaide, Australia, March 2005: P63.

Kecskes Z, Kent A, Reynolds G. *Successful treatment of pulmonary hypertension with sildenafil in a neonate with spondyloepiphyseal dysplasia congenita.* Proceedings of the 9th Annual Congress of the Perinatal Society of Australia and New Zealand, Adelaide, Australia, March 2005: P84.

Kecskes Z, Kent A, Reynolds G. *Successful treatment of pulmonary hypertension with sildenafil in a neonate with spondyloepiphyseal dysplasia congenita.* Pediatric Research 2005; 58 (2): 388

Bhola K, Hallam L, Falk MC, Kent A, KecskesZ. *Double trouble: A case of proximal renal tubular dysgenesis in a donor survivor of twin-to-twin transfusion syndrome.* Pediatric Research 2005; 58 (2): 388

Kent A, Lomas F, Hurrion E, Dahlstrom JE. *Antenatal steroids may reduce adverse neurodevelopemental outcome following chorioamnionitis.* J Paed Child Health; 2005; 41: 186-190.

Goyen T-A, Todd DA, Veddovi M, Wright A, Flaherty M, Kennedy J. *Eye-hand coordination skills in very preterm infants <29 weeks gestation at 3 years: Effects of preterm birth and retinopathy of prematurity.* Early Human Dev. 2006: 82; 739-745.

Ahmed M, Duncan M, Kent A for the NICUS Network. *The prevalence of ROP and ROP requiring treatment in infants born at 31 weeks gestation and/or birthweight 1250 grams from 1998–2002 - A regional study*. J Paed Child Health 2006, 42: 337–340.

Warren HS, Rana PM, Rieger DT, Hewitt KA, Dhalstrom JE, Kent AL. *NK cell receptors for MHC class I molecules are expressed on subsets of naïve CD8 T cells in cord blood.* Journal of Leukocyte Biology 2006; 79: 1252–1259.

Kent AL, Dahlstrom JE. *Placental assessment: Simple techniques to enhance best practice.* ANZJOG 2006; 46: 32–37.

Kecskes Z, Kent A, Reynolds G. *Sildenafil and neonatal pulmonary hypertension.* J Maternal Fetal Medicine 2006, 19: 579–582.

Lui K, Bajuk B, Foster K, Arnolda G, Kent A, Sinn J, Spence K, Henderson-Smart D and the Consensus Workshop Organising Committee. *Consensus Guidelines for Perinatal Care at Borderlines of Viability - Results of the NSW & ACT Consensus Workshop.* MJA 2006, 9: 495–500.

Dhawan A, Kecskes Z, Jyoti, R, Kent A. *Case report: Neonatal HSV and MRI findings.* J Paed Child Health 2006,42: 824–826.

Kecskes Z, Kent A, Reynolds G. *Treatment of pulmonary hypertension with Sildenafil in a neonate with Spondyloepiphyseal Dysplasia Congenita.* Matern Fetal Neonatal Med. 2006;19(9):579–82.

Dhawan A, Kecskes Z, Jyoti R, Kent A. *Early DW-MRI findings in neonatal herpes encephalitis.* J Paediatr Child Health 2006;42(12):824–6

Clerihew L, Lamagni TL, Brocklehurst P, McGuire W. *Invasive fungal infection in very low birth weight infants: National prospective surveillance study.* Arch Dis Child 2006;91:188–192.

Pilley E. McGuire W. *Pre-discharge "car seat challenge" for preventing morbidity and mortality in preterm infants.* Cochrane Database Syst Rev 2006:1.

Ibrahim M, Sinn J, McGuire W. *Iodine supplementation for the prevention of mortality and adverse neurodevelopmental outcomes in preterm infants.* Cochrane Database Syst Rev 2006:2.

Tosh K, McGuire W. *Ad libitum or demand/ semi-demand feeding versus scheduled interval feeding for preterm infants.* Cochrane Database Syst Rev 2006:3.

McIntyre PG, Tosh K, McGuire W. *Caesarean section versus vaginal delivery for preventing mother to infant hepatitis C virus transmission.* Cochrane Database Syst Rev 2006:4.

McGuire W. Perinatal Asphyxia. Clin Evid 2006:15;511–9.

Todd D.A, Wright A, Smith J. & the NICUS Network *Retinopathy of prematurity in infants <30 weeks' gestation in NSW and the ACT* from 1992–2002. Early Human Dev. 2004; 80:191–192

Goyen T-A, Todd D. A., Veddovi M., Wright A., Flaherty M., Kennedy J. *Eye-hand coordination skills at 3 years in preterm infants: Effect of preterm birth and retinopathy of prematurity.* Early Human Dev. 2006;82: 739–745 .

PRESENTATIONS/ABSTRACTS

Current concepts in hypoxic-ischaemic encephalopathy. Kecskes Z. 2nd Australian Health and Medical Research Conference; 2004 November 21–26, Sydney. Invited speaker.

Introduction of a placental information form increases the number of placentas submitted for histopathological evaluation. Kent A, Dahlstrom JE. PSANZ meeting, Sydney, 2004.

Resuscitation with air or 100% oxygen – what to do? Kecskes Z. RACP/RCPT Joint Scientific Meeting 2004, May 13–15, Canberra, Australia. Invited speaker.

The prevalence of ROP and ROP requiring treatment in infants born at ≥ 31 weeks gestation and/or birthweight ≥1250 grams from 1998–2002 – A regional study. Ahmed M, Duncan M, Kent A. For the NICUS Network. PSANZ Meeting, Sydney, 2004.

Increasing ambient room temperature in the operating theatre improves admission temperature in premature infants. Kent A, Williams J. PSANZ Meeting, Sydney 2004.

CD8 T cells expressing NK receptors in cord blood. Warren HS, Rana PM, Rieger DT, Dahlstrom JE, Kent AL. The Canberra Region Health and Medical Research Conference, Canberra, Australia 2004. Poster presentation and prize.

Introduction of a placental information form increases the number of placentas submitted for histopathological evaluation. Kent A, Dahlstrom JE. The Canberra Region Health and Medical Research Conference, Canberra, Australia, 2004.

Can T cell and NK cell surface receptor expression predict complications of prematurity? Kent A, Dahlstrom JE, Rieger DT, Warren HS. The Canberra Region Health and Medical Research Conference, Canberra, Australia 2004.

Increasing ambient room temperature in the operating theatre improves admission temperature in premature infants. Kent A, Williams J. The Canberra Region Health and Medical Research Conference, Canberra, Australia, 2004.

How does chorioamnionitis/funisitis affect T cell and NK cell surface receptor expression in the preterm and term infant? Kent AL, Dahlstrom JE, Reiger DT, Warren HS. XXV Congress if International Academy of Pathology, Brisbane, Australia 2004.

Placental assessment: value of education and placenta information form. Kent AL, Dahlstrom JE. XXV Congress if International Academy of Pathology, Brisbane, Australia 2004.

Early MRI findings in neonatal herpes encephalitis – A case report. Dhawan A, Jyoti R, Kecskes Z, Kent AL. PSANZ, Adelaide, Australia, 2005.

aEEG monitoring - new technology. Kecskes Z. The 16th Annual Susan Ryan Seminar - Neurological dilemmas. Sydney, Australia, July 2005. Invited speaker.

Placental mesenchymal dysplasia associated with hepatic mesenchymal hamartoma in the newborn. Francis B, Hallam L, Kecskes Z, Kent AL. PSANZ, Adelaide, Australia 2005.

Placental cultures – what are they telling us? Bhola K, Al-Kindi H, Dahlstrom JE, Kent A. PSANZ, Adelaide, Australia, 2005.

Evaluation of markers of T Cell activation in premature babies. Kent AL, Dahlstrom JE, DT Rieger, Warren HS. PSANZ, Adelaide, Australia, 2005.

Double trouble: A case of proximal renal tubular dysgenesis in a donor survivor of twin-twin transfusion syndrome. Bhola K, Hallam L, Falk MC, Kent A, Kecskes Z. PSANZ, Adelaide, Australia, 2005.

Easy education tools that improve the submission of placentas for histopathological evaluation. Kent AL, Dahlstrom JE. PSANZ, Adelaide, Australia, 2005.

Double trouble: A case of proximal renal tubular dysgenesis in a donor survivor of twin-to-twin transfusion syndrome. Bhola K, Hallam L, Falk MC, Kent A, Kecskes Z. The Canberra Region 10th Annual Scientific Meeting, Canberra, Australia 2005.

Early MRI findings in neonatal herpes encephalitis – A case report. Dhawan A, Jyoti R, Kecskes Z, Kent AL. The Canberra Region 10th Annual Scientific Meeting, Canberra, Australia 2005.

Audit of placental microbiological cultures: Is this still necessary in the era of widespread antibiotic use? Al-Kindi H, Bhola K, Kent A, Dahlstrom JE. The Canberra Region 10th Annual Scientific Meeting, Canberra, Australia 2005.

Placental assessment: simple techniques to enhance best practice. Kent AL, Dahlstrom JE. ESPR, Siena, Italy 2005.

Placental cultures in the era of peripartum antibiotic use. Bhola K, Al-Kindi H, Dahlstrom JE, Kent A. ESPR, Siena, Italy 2005.

*Naïve CD8 T cells expressing inhibitory NK receptors in cord blood.*Warren HS, Rana PM, Rieger DT, Dahlstrom JE, Kent AL. 9th Meeting of The Society for Natural Immunity, Hawaii 2005.

Naïve CD8 T cells expressing inhibitory NK receptors in cord blood. Warren HS, Rana PM, Rieger DR, Hewitt KA, Dahlstrom JE, Kent AL. Australasian Society for Immunology, Melbourne, Australia 2005.

aEEG monitoring in NICU - is it worth doing or is the diagnosis obvious? Kecskes Z. 10th Annual Congress of the Perinatal Society of Australia and New Zealand; 2006; April 3-6, Perth, Australia

Resuscitation of term infants with room-air - a 1 year Audit. Kecskes Z, Kent A, Reynolds G. 10th Annual Congress of the Perinatal Society of Australia and New Zealand; 2006; April 3-6, Perth, Australia

When do babies pass meconium? More evidence that human GI tract maturation continues up to term. Kecskes Z, Majeed U, Croaker GDH. 10th Annual Congress of the Perinatal Society of Australia and New Zealand; 2006; April 3-6, Perth, Australia

Protein 14-3-3 in the CSF of newborn rats following hypoxia-ischaemia. Kecskes Z, Mulchandani M, Kent A, Dahlstrom J, Hendry I 10th Annual Congress of the Perinatal Society of Australia and New Zealand; 2006; April 3-6, Perth, Australia

Brain monitoring in neonates - is it worth doing or is the diagnosis obvious? Kecskes Z (invited speaker). 4th annual BrainZ Australasian Workshop, Perth, Australia, April 7, 2006

Protein 14-3-3 in the CSF of newborn rats following hypoxia-ischaemia Kecskes Z, Mulchandani M, Kent A, Dahlstrom J, Hendry I, 47th Annual Meeting of the European Society for Paediatric Research, Barcelona, Spain, October 7–10, 2006

Marsh M.J., Todd D.A., Sebastian S., Doyle I, Barr H, Postle A.D. Surfactant proteins A&B: changes in the bronchoalveolar lavage fluid from children who develop acute lung injury. British Paediatric Intensive Care Society Annual Scientific meeting: London, UK 2004.

Todd D.A., Sebastian S., Doyle I, Barr H, Postle A.D. Marsh M.J. Surfactant proteins A&B: changes in the bronchoalveolar lavage fluid from children who develop acute lung injury. ANZICS/ACCCN Annual Scientific meeting: Melbourne, Australia 2004.

Wright A, Smith J. Todd DA, & the NICUS Network Retinopathy of prematurity in infants <30 weeks' gestation in NSW and the ACT from 1992–2002. Annual PSANZ meeting: Sydney, Australia. 2004.

Todd DA, Wright A, Smith J. & the NICUS Network Retinopathy of prematurity in infants <30 weeks' gestation in NSW and the ACT from 1992-2002. Annual Neonatal Society meeting: Cambridge UK. 2004.

Todd DA, George A, Henderson NG, Sebastian S, Marsh MJ & Postle AD. Interleukin-8 during Paediatric Acute Lung Injury. American Society of Critical Care Medicine Annual meeting: Phoenix, USA 2005

Marsh MJ Henderson NG Todd DA, Clarke H & Postle AD. Surfactant Protein D during Paediatric acute lung injury. American Society of Critical Care Medicine Annual meeting: Phoenix, USA 2005

Todd DA, Clark H, Calvert J, George A &. Postle A D surfactant phospholipid species: changes in endotracheal aspirates of neonates who develop bronchopulmonary dysplasia. Annual Foetal and Neonatal Physiology meeting: Adelaide, Australia. 2005.

McCarthy HJ, Rochefort M & Todd DA. Role of Ureaplasma urealyticum in affecting the clinical and radiological course of lung disease of prematurity. Annual PSANZ meeting: Adelaide, Australia. 2005.

Todd DA, Gordon A, Vora A, Perdomo A, Barr H, Doyle I & Tarnow-Mordi W. Surfactant proteins A & B: serial changes in blood in preterm infants. Annual PSANZ meeting: Adelaide, Australia. 2005.

Todd DA, Clark H, Calvert J, George A &. Postle A D. Surfactant phospholipid species: changes in endotracheal aspirates of neonates who develop bronchopulmonary dysplasia. Annual PSANZ meeting: Adelaide, Australia. 2005.

Todd DA, Blewitt P and Saville C. Inspired humidity and temperature variations with the F&P MR850 humidity base. Annual PSANZ meeting: Perth, Australia 2006.

Todd DA. Invited Talk: ROP: The continuing challenge to the Neonatologist. Pediatric Ophthalmology Symposium. Annual meeting NSW branch of RANZCO. Sydney Australia 2005.

Todd DA, Blewitt P and Saville C. Inspired humidity and temperature variations with the F&P MR850 humidity base. Annual PSANZ meeting: Perth, Australia 2006.

Malvya M, Pandit C, Todd DA. Rochefort M. Bacterial isolates in the Neonatal and Special Care Unit at Westmead Hospital. Annual PSANZ meeting: Perth, Australia 2006.

Hogan M, Hilliard C, Todd DA. The use of cranial osteopathy in the treatment of feeding dysfunction: a case report. Annual PSANZ meeting: Perth, Australia 2006.

Haskas A and Todd DA. Assessment of medisense® optium™ blood glucose in a neonatal population. Annual PSANZ meeting: Perth, Australia 2006.

Haskas A and Todd DA. Cannula patency duration and reasons for removal. Annual PSANZ meeting: Perth, Australia 2006.

Malviya M, Ibrahim M, Wain S, Hearn R, Shingde V, Todd DA, Ma G, Eastman C, Boyage S, Tarnow-Mordi W. Are Australians getting enough Iodine and Selenium. Annual PSANZ meeting: Perth, Australia 2006.

Malviya M, Ibrahim M, Wain S, Hearn R, Shingde V, Todd DA, Ma G, Eastman C, Boyage S, Tarnow-Mordi W. Are Australians getting enough Iodine and Selenium. Westmead Hospital Research week: Westmead Australia 2006.

Malvya M, Pandit C, Todd DA. Rochefort M. Bacterial isolates in the Neonatal and Special Care Unit at Westmead Hospital. Westmead Hospital Research week: Westmead Australia 2006.

Todd DA, Malviya M, Rochefort M. Histologic chorioamnionitis and outcome in infants ≤ 32 weeks gestational age. Fetal and Neonatal Physiological Society meeting: Cambridge, England 2006.

AWARDS

Warren HS, Rana PM, Rieger DT, Dahlstrom JE, Kent AL. *CD8 T cells expressing NK receptors in cord blood.* The Canberra Region Health and Medical Research Conference, Canberra, Australia, 2004 Poster Prize.

Kecskes Z. Winner New Investigator Award (Category Basic Science) Perinatal Society of Australia and New Zealand 2006, value $500

Kecskes Z. Winner combined Perinatal Research Society/Perinatal Society of Australia and New Zealand New Investigator Award, value US$5,000

NEUROLOGY

STAFF

Associate Professor Christian Lueck – PhD, FRACP, FRCP (UK), Director Neurology The Canberra Hospital

Dr L Vadlamudi – PhD, FRACP, Staff Specialist

Dr Andrew Hughes - Department of Neurology, TCH

COLLABORATIVE ASSOCIATES

Associate Professor Ted Maddess - BS, ANU

Associate Professor Isla Williams - University of Melbourne/Monash University

Dr LA Abel - University of Melbourne

Dr Gawn McIlwaine - University of Edinburgh, UK

Professor Charles Warlow - University of Edinburgh, UK

Professors Nancy Newman and Valerie Biousse - Atlanta, Ga, USA

RESEARCH PROJECTS

Multifocal Visual Evoked Potentials.
With Dr Ted Maddess at RSBS, ANU, I am involved in setting up a project to use multifocal VEP to investigate optic nerve function in patients with Multiple Sclerosis with a view to predicting prognosis. To date this collaboration has resulted in one publication in a peer-reviewed journal.

Optokinetic Nystagmus.
With Assoc. Prof. Isla Williams (Monash and Melbourne Universities) and Dr Larry Abel (University of Melbourne), I am involved in setting up a project to examine the use of optokinetic nystagmus to study normal ageing and degenerative diseases in man. This has involved setting up an eye movement laboratory at the Canberra Hospital, a project which has taken two years and is now nearing completion. One paper is currently in press in the Journal of Clinical Neuroscience. This research may well extend to involve functional MRI imaging with Professor David Reutens at Monash University

Optic Chiasm.
With a group at Edinburgh University (UK) (Drs. Gawn McIlwaine and Tim Chrisp), I have been involved in developing a model of the optic chiasm to try to explain the mechanism of bitemporal hemianopia which results from chiasmal compression. This has resulted in one publication in a peer-reviewed journal5 and one letter (J Neuro-Ophthalmol, in press).

Intracerebral Pressure.
With another group in Edinburgh University (UK) (Prof. Charles Warlow) I have studied the normal range of intracerebral pressures recorded at lumbar puncture to provide normative data. This has resulted in a paper which has been resubmitted to Neurology after revision following referees' comments.

Optic neuritis.
With a group in Atlanta, USA (Professors Nancy Newman and Valerie Biousse), I am involved in surveying the management of acute optic neuritis by ophthalmologists and neurologists in Australia. The proposal is currently being submitted to the Ethics Committee.

IST-3.
A study based in Edinburgh, UK, to examine the role of thrombolysis in acute ischaemic stroke.

INTERACT.
A study based at the George Institute, Sydney, to examine the role of acute blood pressure lowering in acute intracerebral haemorrhage

PERFORM.
A pharmaceutical-based randomised controlled study of a new agent (terutroban) as a comparison with aspirin in secondary prevention of ischaemic stroke.

CogniMS.
A pharmaceutical-based study to examine the prognostic significance of early cognitive change in Multiple Sclerosis.

Oculomotor Research.
I have spent the last two years obtaining space from the Canberra Hospital to set up an oculomotor laboratory. The laboratory was completed in April, 2006, and I am now in the process of purchasing equipment and recruiting a technical officer. Once the laboratory is functional, it is proposed to investigate various aspects of oculomotor disturbance (particularly saccadic and optokinetic nystagmus disorders) in patients with various conditions including stroke, Parkinson's disease and dementia.

Stroke Research.
I have set up a number of projects in relation to stroke which are currently being undertaken with the help of my Staff Specialist colleague, Dr Andrew Hughes and the Stroke Fellow, Dr Omar Ahmad. These include an audit of the use of echocardiography in the investigation of stroke, an analysis of the frequency of stroke due to under-anticoagulated patients with atrial fibrillation, and an audit of the impact of the new stroke unit on Canberra and the surrounding area.

Electrogoniometric Research.
I have set up a number of projects to look at the use of the electrogoniometer in measurement of thoracic kyphosis as a function of normal ageing and in diseases such as stroke and Parkinson's disease. One paper has been presented at a scientific meeting, and I have one paper in preparation in relation to previous research with the electrogoniometer in stroke.

EEG research.
I am in the process of setting up a project to examine the significance of periodic lateralising epileptic discharges in stroke by studying all stroke patients prospectively.

Audit.
With Prof. Julia Potter (ANU), I have been auditing the use of serum anticonvulsant level measurements. This has resulted in a poster presentation at a scientific meeting, and a paper in preparation.

FUNDING

2004 The Canberra Hospital Private Practice Fund $31,500. *The use of an optokinetic nystagmus paradigm to assess deterioration in selective attention with normal ageing and in Parkinson's disease*

2004 ACT Health $45,520. *Development of the ACT Hub of an Australian Neurovision Network*

2005 The Canberra Hospital Private Practice Fund $37,796.35. *An investigation into attentional suppression of optokinetic nystagmus as a tool for quantifying neuronal ageing and degeneration in man.*

2006 NH&MRC, 457343. $210,000. *Project grant: The third international stroke trial. Lindley R, Levi C, Read S, Parsons M, Hand P, Lueck C.*

PUBLICATIONS

L Vadlamudi et al. *Is benign Rolandic epilepsy genetically determined?* Annals of Neurology 2004;56: 129–132

L Vadlamudi et al., *Factors underlying scalp-EEG interictal epileptiform discharges in intractable frontal lobe epilepsy.* Epileptic disorders 2004;6:89–95

L Vadlamudi et al. *Epilepsy in twins: insights from unique historical data of William Lennox.* Neurology 2004;62:1127–33

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Lueck CJ. *Double Vision. Assessment and Management.* Medicine Today. 2004;5:27–36

Lueck CJ, Gilmour DF, McIlwaine GG. *Neuro-ophthalmology: Examination and Investigation.* J Neurol Neurosurg Psychiatry 2004;75 (Supp IV):iv2–iv11.

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Ruseckaite R, Maddess T, Danta G, Lueck CJ, James AC. *Sparse multifocal stimuli for the detection of multiple sclerosis.* Annals of Neurology 2005:57:904–913

Lueck CJ, McIlwaine G. I*nterventions for idiopathic intracranial hypertension* (Cochrane Review). In: The Cochrane Library, Issue 3, 2005. Oxford: Update Software.

Lueck CJ. *Letter from Australia 2.* Practical Neurology 2005;5:248–251.

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CMC Allen, CJ Lueck, M Dennis. "Diseases of the Nervous System". In (Eds., NA Boon, N Colledge, B Walker, J Hunter) Davidson's Principles and Practice of Medicine, 20e. Edinburgh: Churchill Livingstone. 2006

IM Williams, L Mulhall, J Mattingley, C Lueck, L Abel. *Optokinetic nystagmus as an assessment of visual attention to divided stimuli.* J. Clin. Neuroscience. 2006;13: 828–833.

CJ Lueck. *Disease modifying agents for multiple sclerosis – how safe are they?* Focus on Multiple Sclerosis 2007;2:11–14.

W Whiteley, R Al-Shahi, CP Warlow, M Zeidler, CJ Lueck. *CSF opening pressure: reference interval and the effect of body mass index.* Neurology 2006;67:1690–1691.

Posters presented at clinical/scientific meetings

CJ Lueck, L Abel, J Cockburn, P Nevile, I WilliaMs *The Australian Neurovision Website.* Presented at the World Congress of Neurology, Sydney, November, 2005.

Rathmalgoda, J Potter, CJ Lueck. *Serum Sodium Valproate Testing: Is It Appropriate?* Presented at the Annual Scientific Meeting of the Australian Association of Neurologists, Canberra, May, 2006.

O Ahmad, J Mowle, A Hughes, CJ Lueck. *A systematic review of the literature regarding risk:benefit and timing of anticoagulationi for cardioembolic stroke in patients with atrial fibrillation.* Presented at the Annual Scientific Meeting of the Stroke Society of Australiasia, Adelaide, October, 2006.

NEUROSCIENCES RESEARCH UNIT

STAFF

Ms Sue Fordham – Senior Research Assistant.

STUDENTS

Ms Maikee Taconis – University of Utrech

Dr David Bernal – JCSMR (ANU)

Mr Wong, Heng Jian – BaMBI, Biochemistry and Molecular Biology

Mr Sourinhan Bee Souvannaphong- Research student

COLLABORATIVE ASSOCIATES

Dr David Linares Bandin- ANU medical School

Associate Professor David O Willenborg- ANU Medical School

Dr Maria Staykova – ANU Medical School

Dr Paula Mana Nieto- JCSMR (ANU)

Dr Diego Silva – JCSMR (ANU)

Australian national nuclear research and development organisation (ANSTO)

Bionomics Limited, (Australia)

RESEARCH PROJECTS

The role of IFN gamma and C-C chemokines in murine neuroinflammation and resultant demyelination-remyelination.
Multiple sclerosis is of course the most common demyelinating disease of the CNS. Using the animal model of demyelination caused by cuprizone, we are studying the role that several immune mediator play in the processes of demyelination and remyelination.

Toxic central nervous system injury induces immune tolerance to neuroantigens.
Reversible toxic injury to a localized area of the central nervous system releases myelin and oligodendroglial antigens to the peripheral lymphoid organs with the resultant establishment of immune tolerance to those antigens. In this study, using Experimental Autoimmune Encephalomyelitis, we will investigate the mechanisms behind the immune tolerance developed in response to CNS injury and explore possible clinical application.

Novel radiolabelled peripheral benzodiazepine receptor ligands for imaging neuroinflammation and investigation of their potential therapeutic use.
In our study we use novel Peripheral Benzodiazepine Receptor (PBR) ligands for the early detection and possibly treatment of neuroinflammation.
Collaborative work with: ANSTO

Functional characterisation of the cellular and molecular events resulting in protection against EAE in Roquin-mutant mice.
In this study we investigate the mechanism whereby roquin negatively modulates the immune response in EAE and the involvement of a very specific subset of immune cells, the follicular helper T cells, in inducing protection. The study of new genes that influence the aggressive immune response observed in MS will help deciphering its aetiology and eventually find a cure.

Kv1.3 Blockers for Multiple Sclerosis.
Kv1.3 is a key regulator of the effector-memory T-Cells of the immune system that are the key mediators of disease in Ms In this study we investigate the effect of several Kv1.3 inhibitors on the development and progression of Experimental Autoimmune Encephalomyelitis.
Collaborative work with: Bionomics Limited

Functional characterisation of novel mast cell genes.
In this study, we discover and characterize novel genes involved in mast cell activation by combining computer based approaches, in vitro studies and experimental animal models.

FUNDING

Jan 2006–Jan 2008
Multiple Sclerosis Research Australia (MSRA) and Trish Foundation
D Linares Bandin, A Katsifis and D O Willenborg. *Novel radiolabelled peripheral benzodiazepine receptor (PBR) ligands for imaging and treating neuroinflammation* ($150000)

Jan 2006–Jan 2008
Multiple Sclerosis Research Australia (MSRA)
C Vinuesa, D Silva and D Linares Bandin *Elucidating the role of the autoimmune modulator roquin and follicular helper T cells in the prevention of experimental autoimmune encephalomyelitis* ($110000)

Jan 2007–Jan 2010
National Health and Medical Research Council
D Liñares Bandin, D O Willenborg, A Katsifis, MC Gregorie. *Novel radiolabelled peripheral benzodiazepine receptor (PBR) ligands for imaging and treating neuroinflammation* ($407,750) + (NHRMC E.G. $54613)

Sep 2007–
The Canberra Hospital Private Practice Fund
Functional characterisation of novel mast cell genes. Dr Matthew Cook, Dr Diego G. Silva, Dr David Linares ($30000)

PUBLICATIONS

de Mestre AM, Staykova MA, Hornby JR, Willenborg DO, Hulett MD. 2007. *Expression of the heparan sulfate-degrading enzyme heparanase is induced in infiltrating CD4+ T cells in experimental autoimmune encephalomyelitis and regulated at the level of transcription by early growth response gene 1.* J Leukoc Biol. Jul 26 [Epub ahead of print]

Kent AL, Maxwell LE, Koina ME, Falk MC, Willenborg D, Dahlstrom JE. 2007 *Renal Glomeruli and Tubular Injury Following Indomethacin, Ibuprofen, and Gentamicin Exposure in a Neonatal Rat Model.* Pediatr Res. Jul 6 [Epub ahead of print]

David Liñares, Maaike Taconis, Paula Maña, Manuel Correcha, Sue Fordham, Maria Staykova and David O Willenborg 2006 *Neuronal nitric oxide synthase plays a key role in CNS demyelination.* J. Neuroscience Dec 6;26(49):12672-81

Huntington ND, Tomioka R, Clavarino C, Chow AM, Linares D, Mana P, Rossjohn J, Cachero TG, Qian F, Kalled SL, Bernard CC, Reid HH. *A BAFF antagonist suppresses experimental autoimmune encephalomyelitis by targeting cell-mediated and humoral immune responses.* Int Immunol. 2006 Oct;18(10):1473-85. Epub 2006 Aug 16.

Paula Mana, David Linares, Sue Fordham, Maria Staykova and David O. Willenborg. 2006 *Deleterious role of IFN□ in a toxic model of central nervous system demyelinatiion.* American Journal of Pathology. 168(5): May;168(5): 1464–73

Maria A. Staykova, Susan A. Fordham, Gavin J. Bartell, William B. Cowden, David O. Willenborg 2006 *Nitric oxide contributes to the resistance of young SJL/J mice experimental autoimmune encephalomyelitis.* J. Neuroimmunology 176(1–2) Epub 2006 May 30

M. A. Staykova, J.T. Paridean, W. B. Cowden and D.O. Willenborg. 2005 *Nitric oxide contributes to resistance of the Brown Norway rat to experimental autoimmune encephalomyelitis.* Am J Pathol. Jan;166(1):147–57.

F. Mattner, A. Katsifis, M. Staykova, P. Ballantyne J. Chapman and D.O. Willenborg. 2005 *Evaluation of a radiolabelled peripheral benzodiazepine receptor ligand in central nervous system inflammation of experimantal autoimmune encephalomyelitis: a possible probe for imaging multiple sclerosis.* Eur. J. Nuclear Medicine and Imaging: 32(5): 557–63

PATENTS

Australian Application Number 2007904591
Applicant(s) The Australian National University
Inventor(s) Linares, David and Silva, Diego
Title Treatment and prevention of hypersensitivity reactions
Status Filed Filing Date 24 August 2007
Date of Patent 24 August 2007

OBSTETRICS AND GYNAECOLOGY

STAFF

Professor David Ellwood – Senior Staff Specialist Obstetrics and Gynaecology, The Canberra Hospital

Dr Anne Sneddon

Dr Stephen Robson

Dr David Knight

Dr Peter Scott

Dr Meiri Roberston

Dr Marian Chinnock

Dr Michelle Englund

Ms Jyotica Ruba

STUDENTS

Mr Justin Tucker (medical student)

COLLABORATIVE ASSOCIATES

Dr Leo Leader - Department of Obstetrics and Gynaecology, UNSW

Professor Jane Dahlstrom - (ACT Pathology)

Ms Gwen Allison - ANU School of Molecular Biology

Dr Hilary Bambrick - Post-doctoral fellow at National Centre for Epidemiology and Population Health, NCEPH

Professor Tony McMichael - Director, NCEPH

Dr Christopher Verco - Senior Lecturer, Obstetrics and Gynaecology, Flinders Medical School, Adelaide

Associate Professor Chris Nolan

Professor Geoff Farrell – Director Gastroenterology and Hepatology Department, The Canberra Hospital

Ms Rebecca Reay – Academic Unit of Psychological Medicine

Dr Jane Thompson – Women's Hospitals Australasia

Ms Joanna Holt – Women's Hospitals Australasia

Dr Paul Arbon – Research Centre for Nursing and Midwifery Practice

Ms Melissa Parker – Research Centre for Nursing and Midwifery Practice

RESEARCH PROJECTS

PPROMT Trial (Preterm Prelabour Rupture of membranes close to Term Trial). This is a multi-centred RCT which is being run from the Perinatal Clinical Trials Unit, University of Adelaide and is an RCT comparing early (34 weeks) intervention by induction of labour or caesarean section with standard management (delivery at 37 weeks). The primary outcome is perinatal sepsis. This study has Ethics approval and recruitment is already underway.

The implementation of a simple screening tool to identify mothers with antenatal and postnatal depression. This study is now completed and was part of the Beyond Blue national Postnatal Depression Initiative. Nearly 1000 women were screened both

antenatally and postnatally for symptoms of depression. Further studies are currently being planned to follow up some of the women who took part in this study.

Physical and emotional health outcomes for women following significant primary postpartum haemorrhage – a multi-centred prospective cohort study. This project is funded by the ACT Health and Medical Research Council, and is being administered by Women's Hospitals Australasia. It is a multi-centred (approximately 15 hospitals) study on postnatal physical and emotional recovery in women experiencing post-partum haemorrhage with a blood loss of > 1500ml. This project commenced recruiting in early 2006.

PROGRESS study. A randomised, placebo-controlled trial of progesterone in women at risk of pre-term delivery, to reduce the risk of respiratory distress. This is a multi-centred RCT from the Perinatal Clinical trials Unit, University of Adelaide. Ethics approval has been granted and recruitment will commence shortly.

MDOT Study: Menstrual disorders in teenagers. This is a collaborative project between the Centre for Nursing Research Practice and the Dept of O & G, and involved a survey of over 1000 teenagers (Year 11) looking at menstrual symptoMs A cohort of those with more severe menstrual symptoms (approximately 25%) is being followed–up looking for evidence of endometriosis.

Ultrasound prediction of placental pathology. This is a pilot study looking at the ability of ultrasound to predict placental pathology. The study was completed as part of an Honours project by a University of Sydney medical student.

The role of glucolipotoxicity in the pathogenesis of diabetic fetopathy. This study has been funded by the Canberra Regional Medical Foundation ($85,000) and The Canberra Hospital Private Practice Trust Fund ($175.000) and is currently awaiting Ethics clearance.

An anonymous, on-line survey of women's wishes for pregnancy management after an unexplained stillbirth. There is no data available concerning the influence of a previous stillbirth on women's perceptions of the risk level of a subsequent pregnancy, nor on her wishes for management in subsequent pregnancies. This is a unique survey in which women are recruited on-line, with Internet-based survey techniques.

The significance of oral pathogens in unexplained stillbirth. Recent evidence suggests that periodontal disease (gum and root infection with anaerobes) is associated with adverse pregnancy outcomes such as pre-term labour and growth restriction. This study aims to use PCR techniques to search for signs of known oral pathogens in fetal tissues after unexplained stillbirth.

A prospective cohort study of subsequent reproductive outcomes in women after an unexplained stillbirth. Unexplained stillbirth is now the commonest aetiological category of intrauterine fetal death, and there is no reliable prognostic information regarding subsequent reproductive outcomes. This is an innovative, internet-based cohort study which follows women after unexplained stillbirth, in their attempts to obtain a subsequent pregnancy.

Decision-making for route of hysterectomy: vaginal, abdominal, or laparoscopic. Surgical authorities lament the lower-than-predicted rate of uptake for laparoscopic hysterectomy over the last decade. This is the first, Australia-wide review of surgical practices involving all Australian gynaecologists.

Skills acquisition and practice intentions for obstetric trainees in complex vaginal delivery. The trend to increases in the proportion of caesarean deliveries has potentially compromised the training of specialty registrars in complex vaginal birth. There is no data to define what constitutes optimal training in such births, and this is the first comprehensive Australia-wide review of training in complex vaginal birth.

Video feedback in chronic pelvic pain. Few effective strategies have been developed for the treatment of chronic pelvic pain. This unique study is a randomised trial of video feedback as a treatment modality for women with chronic pelvic pain.

A randomised trial of excisional vs ablative treatment of grades 1 and 2 pelvic endometriosis for the treatment of pelvic pain. The optimal surgical treatment of mild pelvic endometriosis had previously been thought to be excisional treatment. However, a recent trial (using pain scores as a primary endpoint) has favoured ablative treatment. This multi-centre study aims to compare the two surgical modalities using validated pain and symptom scores.

Does the increased rate of caesarean birth inevitably lead to an increase in the incidence of morbidly adherent placentation? Haemorrhagic complications of morbidly adherent placentation are one of the leading causes of maternal death in Australia, and anecdotal reports suggest that the increasing rate of caesarean birth has been associated with an increase in the incidence rate of this complication. This is the first systematic review of the incidence of morbidly adherent placentation, and is being conducted through Women's Hospitals Australasia (WHA).

PUBLICATIONS

de Costa CM, Robson S. *Throwing out the baby with the spa water?* Med J Aust 2004; 181: 438–40.

Adair S, Tanda L, Robson S. *Comparison of peri-operative outcomes for abdominal hysterectomy between Ligasure™ bipolarvessel sealer and conventional sutures*. A case-control study. Ulster Med J 2004; 1: s7.

Ellwood D. *Late terminations of pregnancy – an obstetrician's perspective*. Australian Health Review 29, 139–42 2005

Robertson M, Scott P, Ellwood D A, Low ST. *Endocervical polyp in pregnancy; grayscale and colour Doppler images and essential considerations in pregnancy*. Ultrasound in Obstetrics & Gynaecology 26:583–584 2005

Robson S, Bland P, Bunting M. *An anonymous survey of provincial, rural and remote obstetricians' long-term practice intentions; implications for the provision of specialist obstetric services outside metropolitan areas in Australia.* Aust N Z J Obstet Gynaecol 2005; 45: 395–8.

Robson S, Adair S, Bland P. *A new surgical technique for dealing with uterine inversion.* Aust N Z J Obstet Gynaecol 2005; 45: 250–1.

Robson S, Hehir J, Marsden D. *Squamous carcinoma arising in a grafted donor kidney presenting as high-grade atypia on routine Pap cytology.* Aust N Z J Obstet Gynaecol 2005; 45: 168–9.

Knight DC, Robson S. *Chronic pelvic pain.* Aust Doctor January 18th, 2005.

Robertson M, Curren J, Warwick L, Jammu V, Ellwood D, Dahlstrom J, (2006). *A rare abnormal karyotype (45,X/47,XY + 18) associated with increased nuchal translucency thickness.* Ultrasound in Obstetrics & Gynaecology (2): 229–31

Buist A, Condon J, Brooks J, Speelman C, Milgrom J, Hayes B, Ellwood D, Barnett B, Kowalenko N, Matthey S, Austin M-P, Bilszta J (2006). *Acceptability of routine screening for postnatal depression.* Journal of Affective Disorders 93, 233–237

Robson S, Thompson J & Ellwood D (2006). *Obstetric management of the next pregnancy after an unexplained stillbirth: an anonymous postal survey of Australian obstetricians.* ANZJOG 46, 278–282

Cameron J & Ellwood D (2006). *Risk Perception and Analysis in Australia.* Risk & Choice in Maternity Care (Editor: A Symon) Elsevier Ltd

Cameron J & Ellwood D (2006) *Choices, Collaboration and Outcomes in Australia* In: Risk & Choice in Maternity Care (Editor: A Symon) Elsevier Ltd

Buist A, Ellwood D, Brooks J, Milgrom J, Hayes B, Sved-Williams A, Barnett B (2006). *National program for depression associated with childbirth: the Australian experience.* Best Practice & Research Clinical Obstetrics & Gynaecology, 1–14 Elsevier Ltd

PRESENTATIONS/ABSTRACTS

The Australian rural and remote obstetric workforce: implications for the future. Bunting M, Robson S, Bland P. PSANZ Annual Scientific Meeting, 2005.

Management of the subsequent pregnancy after an unexplained stillbirth. Robson S, Thompson J, Ellwood D. PSANZ Annual Scientific Meeting, 2005.

PAEDIATRIC RESEARCH AND CLINICAL TRIALS UNIT

STAFF

Associate Professor Graham J. Reynolds MB BS DCH FRACP MHP Grad Cert HE

Maria Hartley RN Grad Cert Clin Trials Management

Sandra Gillett RN MN

STUDENTS

Ms Jill Guthrie, Co Supervisor with Dr Dr Lisa Jackson-Pulver PhD, MPH, Grad Dip App Epidemiol. University of New South Wales "An exploration of the experiences of families of Indigenous children who are hospitalised in the ACT"

COLLABORATIVE ASSOCIAITES

Associate Professor Jonathan Craig MB BS MSc PhD, Centre for Kidney Research, Children's Hospital Westmead.

Professor Richard Telford PhD AO, Lifestyle of Our Kids, Commonwealth Institute and AIS.

Professor Anne Louise Ponsonby PhD, Murdoch Children's Research Institute, Royal Children's Hospital Melbourne.

RESEARCH PROJECTS

School-Age Outcomes of Very Preterm Infants involved in the Antenatal Magnesium Sulphate Trial. This is an NHMRC funded follow up in children aged 8 years after preterm birth to assess the effect of Magnesium Sulphate given in labour on later development.

Australian Collaborative Trial of Repeat doses of Steroids for the prevention of Neonatal Respiratory Disease. The ACTORDS study was completed in 2002. Children were follwed up in developmental assessment to 2 years. An 8 year follow up program is underway, also NHMRC funded.

A Multi-Centre, Double-Blind, Three Arm, Parallel Group Study Comparing the Efficacy of Immediate Release Methylphenidate (Ritalin®) and Modified Release Methylphenidate with Placebo in Children with Attention-Deficit/ Hyperactive Disorder (MD-1003-002). This was an industry funded clinical trial testing the efficacy of long acting methylphenidate in Australian Children.

Which oxygen level should we use for very premature infants? The Benefits of Oxygen Saturation Targeting study (BOOST II). Boost 2 is an NHMRC funded trial involving the developmental followup of babies exposed to low and high levels of Oxygen during recovery from RDS and follows a previous trial (Boost 1)

Caffeine for Apnoea of Prematurity (CAP Trial). A Canadian and Australian NHMRC funded Trial testing the developmental efficacy of caffeine used for the treatment of apnoea in preterm infants. With other Australian sites.

5-year Follow-up Of Efficacy And Safety Of Methylxanthines In Very Low Birth Weight Infants: Cap (Caffeine For Apnea Of Prematurity) Trial (Eth 11/99.329). Follow up at five years for children previously recruited to the CAP Trial (above)Canadian MRC and Australian NHMRC.

The Epidemiology of Infants Affected by Maternal Drugs of Dependence in NSW and the ACT. A feasibility study seeking to test intensive community support in children of drug addicted parents – funded by Potter Foudation

A cross-sectional prospective study to describe carriage of and antibodies to ß haemolytic streptococcus antigens in children aged 0 to 10 years of age. Study pending, industry funded.

A phase III, open, randomized, controlled, multi-centre study to demonstrate the non-inferiority of the meningococcal serogroup C and the Haemophilus influenzae type b immune response of GlaxoSmithKline (GSK) Biologicals' conjugate Hib-MenC vaccine co-administered with GSK Biologicals' measles-mumps-rubella vaccine, Priorix™, versus MenC-CRM197 conjugate vaccine co-administered with GSK Biologicals' Hib vaccine, Hiberix™, and Priorix™ in 12- to 18-month-old toddlers primed in infancy with a Hib vaccine but not with a meningococcal serogroup C vaccine; and to evaluate the long-term antibody persistence up to 5 years after the administration of the Hib-MenC vaccine. 106445 (Vaccination Phase) 06446:106449: 106450:106452:106454 (Long Term Persistence Phase). Industry funded clinical Trial

International Neonatal Immune Therapy Study (INIS). NHMRC and UK MRC funded Trial Infatns followed to 5 years for developmental assessment.

A Randomized, Observer-Blinded, Parallel Group, Active-Control, Phase1 and 2 Trial of the Safety, Immunogenicity, and Tolerability of 20 µg, 60 µg and 200 µg of meningococcal Group B rLP2086 Vaccine in Healthy Children and Adolescents. Industry funded clinical Trial

Child and infant mental health, Stress and Daycare. Does music modulate stress in the daycare environment? With Department of Music and Pyschology at ANU. Internally funded RCT.

Clinical Study No. MI-CP110, A Pivotal Phase 3 Study of MEDI-524 (Numax™), an Enhanced Potency Humanized Respiratory Syncitial Virus (RSV) Monoclonal Antibody, for the Prophylaxis of Serious RSV Disease in High-Risk Children (NUMAX Study). Industry funded clinical Trial

A Phase 2, Randomized, Double-Blind Study to Evaluate the Safety, Tolerability, and Immunogenicity of Motavizumab (MEDI-524), a Humanized Enhanced Potency Monoclonal Antibody Against Respiratory Syncytial Virus (RSV), and Palivizumab when Administered in the Same Season. Industry funded clinical Trial

Oxygen Saturation monitoring during the first three months in Term Newborn infants. Observational study to determine limits of normal and abnormal for babies sent out on home oxygen. Funded by TCH Private Practice Fund.

Defining normal Oxygen Saturation levels in preterm babies after discharge from hospital. Funded by TCH Private Practice Fund.

Procalcitonin in diagnosing chest infections in children. Honours project, University of Sydney

A Phase III randomised study to compare the sdafety and immunogenicity of three unique lots of the 9 Valent Pneumococcal vapsular polysaccharides.v in healthy infants - Protocol No. D124-P504. Industry funded clinical Trial

Prevention of Recurrent Urinary Tract Infection in Children with Vesicoureteric Reflux and Normal Renal Tracts (PRIVENT). NHMRC funded trial with Children's Hospital Westmead

An examination of the pattern of respiratory signs and symptoms in children admitted with Acute respiratory tract infections (ARI) compared with children not admitted. Honours Project B Med Sci ANU

Lifestyle of our Kids- a study of the relationship between lifestyle and health of our children. Commonwealth Institute Funded project with AIS, Canberra, ANU, UNSW, UWS, Deakin University. Project leader Professor Richard Telford

PUBLICATIONS

Kecskes Z. Kent A. Reynolds G. *Treatment of pulmonary hypertension with sildenafil in a neonate with spondyloepiphyseal dysplasia congenita.* Journal of Maternal-Fetal & Neonatal Medicine. 19(9):579–82, 2006 Sep.

Akima S. Kent A. Reynolds GJ. Gallagher M. Falk MC. *Lethal prenatal onset infantile cortical hyperostosis (Caffey disease).* Pathology. 33(4):521–5, 2001 Nov.

Rabe H. Reynolds G. Diaz-Rossello J. *Early versus delayed umbilical cord clamping in preterm infants.* Cochrane Database of Systematic Reviews. (4):CD003248, 2004

PAEDIATRIC EPIDEMIOLOGY

STAFF

Professor Anne-Louise Ponsonby - Professor of Epidemiology, Menzies Research Institute, University of Tasmania. Head of Genetic and Environmental Epidemiology Research Group, Murdoch Childrens Research Institute at the Royal Children's Hospital. Adjunct Professor in Paediatric Epidemiology, ANU Medical School, Australian National University (Honorary). Fellow, Australasian Faculty of Public Health Medicine. Royal Australasian College of Physicians, 1993. PhD, University of Tasmania, 1993 (Epidemiology: Menzies Centre for Population Health Research). MB, BS, University of Tasmania, 1985. B Med Sci, University of Tasmania, 1982

STUDENTS

Staples J – PhD, ANU: Ecological studies of environmental factors and autoimmune disease

Andreaysan K - PhD, ANU: Early life nutrition and childhood asthma

Pittas F - PhD, University of Tasmania: Environmental factors and the clinical course of MS: a cohort study

RESEARCH PROJECTS

Paediatric epidemiology research group, located at ANU Medical School Department of Paediatrics and Child Health, 5th Floor the Canberra Hospital, affiliated with Murdoch Children's Research Institute, Royal Children's Hospital.

The Ausimmune Study.
A national project, coordinated by ANU to examine the environmental determinants of early demyelinating disease.

The Tasmanian Infant Cohort- a large Australian cohort study.
Current analyses are on the determinants of child allergy and asthma and fetal programming and genetic determinants of cardiovascular outcomes.

The Upper bedding Asthma Trial.
A randomised controlled trial on the effect of bedding composition on childhood asthma.

Several other projects, mostly based interstate. Please see Section 4.

FUNDING

2005
National Health and Medical Research Council
The Role of EBV and HHV-6 Infection in Demyelinating Disease with a Consideration of Past UVR Exposure

2005
National Health and Medical Research Council
Identification of a gene that increases Risk of Multiple Sclerosis via a Pathway involving UV Exposure

2005
Australian Research Council
Does Binocular Vision Training Enhance Literacy Among Primary School Children With Poor Reading?

2005
United States National MS Society
A Case Control Study of Past Sun Exposure and First Demyelinating Events

2005
The Financial Markets Foundation for Children
Early Life Environmental Influences on the Development of Allergic Sensitisation, Asthma and Allergic Rhinitis in Childhood

2005
National Health and Medical Research Council
Environment and Population Health: Capacity Research Development from Local to Global

2005
National Health and Medical Research Council
Building Australia's Capacity to Study Preventable Causes of Common Diseases through Epidemiological Research

PUBLICATIONS

Andreasyan K, Ponsonby AL, Dwyer T, Kemp A, Dear K, Cochrane J, *Carmichael A. A differing pattern of association between dietary fish and allergen-specific subgroups of atopy.* Allergy 2005 May; 60(5):671–7.

Trevillian LF, AL Ponsonby, Dwyer T, Kemp A, Cochrane J, Carmichael A, Lim L. *Infant sleeping environment and wheeze: a prospective cohort:* Am J Public H 2005 (in press).

Ponsonby AL, van der Mei I, Dwyer T, Blizzard L, Taylor B, Kemp A, Simmons R, Kilpatrick T. *Exposure to infant siblings during early life and risk of multiple sclerosis.* JAMA 2005;293:463–469.

Ponsonby AL, Lucas R, van der Mei I. *Ultraviolet radiation, Vitamin D And Three Autoimmune Diseases – Multiple Sclerosis, Type 1 Diabetes, Rheumatoid Arthritis*. Photo Chemistry And Photobiology 2005; 81(6):1267–75

Dwyer T, Ponsonby AL, van der Mei I, Blizzard L, Taylor B, Kemp A, Kilpatrick T. *Exposure to Infant Siblings During Early Life and Risk of Multiple Sclerosis—Reply.* JAMA 2005; 293: 2089–2090.

Kemp A, Ponsonby AL, Dwyer T. *Birth Order, Atopy, and Risk of Non-Hodgkin Lymphoma.* J Natl Cancer Inst. 2005 ;97:475

Andreasyan K, Ponsonby AL, Dwyer T, Morley R, Riley M, Dear K, Cochrane J, Carmichael A. *Higher maternal dietary protein intake in late pregnancy is associated with a lower infant ponderal index at birth.* Eur J Clin Nut, accepted October 2005

AWARDS

2005
An investigator on the work on how exposure to infants in early life is associated with a subsequent lower multiple sclerosis risk. This work, based partly on the environmental case control study where I was Chief Investigator A on the NHMRC grant, was mentioned in the August 2005 grant outcomes review of the ten most productive National Health and Medical Research Council of Australia grants that commenced in 1999 and were completed by 2003.

PAEDIATRIC SURGICAL RESEARCH

STAFF

Associate Professor David Croaker – MBBS FRCS PhD

Ms Celina Lynch – Lab Technician

Dr Jenny Yuan – MBBS Surgical Registrar

STUDENTS

Mr Justin Gundara – Medical Student, Australian National University

COLLABORATIVE ASSOCIATES

Dr Zan Min Song – Australian National University

RESEARCH PROJECTS

Body composition as a modifier of phenotype in Hirschprung's disease rats. This study looks to establish a non-genetic modifier in a genetic disease.

Several spin off projects have been generated:

- Rat adrenal size is ednrb mutation dose dependent
- The normo-ganglionic bowel of the sl rat is not normal

The Babies Bad Bowels Study
Physiological measurement can help predict the outcome of rectal suction biopsy in a constipated baby.

Studies of sl rat brain by Dr Zan Min Song

FUNDING

ACT Government

The Canberra Hospital Private Practice Fund

AWARDS

Award for best paper at the RACS ACT Annual Meeting December 2004

Award for best paper at the RACS ACT Annual Meeting December 2005

Justin Gundara awarded the Douglas Cohen prize for his essay

PHARMACY

STAFF

Ms Morna Falkland - B Pharm Drug Informatiion Pharmacist, TCH

Professor Julia Potter - B Med Sc, MBBS, PhD, FRCPA, Executive Director ACT Pathology, Professor of Pathology, ANU Medical School

Dr Emma Southcott - B Sc(Hons), PhD, Research Scientist, ACT Pathology

RESEARCH PROJECTS

Pantoprazole Stability Study.

Pantoprazole is a proton pump inhibitor given by continuous infusion for bleeding peptic ulcers but with a recommendation from the manufacturer that the infusion be used within 3 hours and that it be discarded if cloudiness or precipitation occurs.

In this study we observed for pH changes, crystallisation and precipitation over 48 hours and beyond as it would be more convenient for pharmacists and nurses to prepare 24 hour infusions.

A poster presentation by colleagues in Western Australia in 2003 determined that adequate concentrations of pantoprazole remained at 48 hours in infusion bags, but did not determine whether crystallisation had occurred.

FUNDING

There was no external funding.

PUBLICATIONS

These are unpublished (as yet) results of a study looking at pantoprazole stability I asked Julia Potter to do. The study was carried out by her research assistant, Emma Southcott.

PHYSIOTHERAPY (ACUTE SUPPORT)

STAFF

Dr Doa El-Ansary

Mr Bernie Bissett

Dr Anne Leditschke

Ms Kathy Terrell

Ms Elisabeth Preston

Ms Megan Gategood

Ms Louise Ada

Ms Colleen Canning

Ms Anchalee Foongchomcheay

Ms Sue Rodda

Mr Pablo Wiekowski

Associate Professor Gordon Waddington

R Adams

Ms Cathy Mitchell

Ms Carolyn Pik

RESEARCH PROJECTS

Inspiratory Muscle Training

Prevention of shoulder dislocation after stroke

FUNDING

The Canberra Hospital Auxiliary

University of Sydney

PRESENTATIONS/ABSTRACTS

Measurement of the unstable sternum from ultrasound imaging: reliability and sternal gap measures. El-Ansary D, Waddington G, Adams R. Abstract APA Congress, Adelaide, May 2004

Effects of upper limb movements in patients with sternal instability – implications for physiotherapy. El-Ansary D, Waddington G, Adams R. NCTSG conference, Melbourne 2005. Poster presentation.

An evaluation of the effects of a stabilisation program in patients with sternal instability following cardiac surgery. El-Ansary D, Waddington G, Adams R. Faculty of Health Sciences Annual Symposium, University of Sydney. 2005

Inspiratory muscle training for ventilated patients: a case study. Bissett B, Leditschke A. APA Cardiothoracic Special Interest Group Conference Melbourne 2005. Poster presentation.

A study of inter-tester and intra-tester reliability on the Neuromotor Behavioural Assessment in premature and extremely low birth weight infants. Terrell K. APA NSW & ACT Branch Conference 2005. Abstract.

POPULATION HEALTH

STAFF

Associate Professor Paul Dugdale

Dr Charles Guest MB, BS, BA, MPH, PhD, FAFPHM, Senior Specialist, Population Health

Medical Director, Health Protection Service

Ross O'Donoughue

Linda Halliday B App Sc (Med Science), Dip Mol Biol, M App Epid,

Cathy Baker

Liza Kelsall

Louise Freebairn

Janet Li

Rosalind Sexton

Maureen Bourne

RESEARCH PROJECTS

The Serious and Continuing Illness Policy and Practice Study (SCIPPS) project proposal, conducted through the Menzies Centre for Health Policy. Assoc. Prof Paul Dugdale, Prof Nicholas Glasgow, Linda Halliday in collaboration with SCIPPS research group.
The Study aims to find policy and health systems solutions for people with serious and continuing illness and those who care for them to allow better management of persons with chronic disease. The aim of this project is to describe individuals and their patterns of health service use to better policy and program interventions and bettering the management of patients with CHF, diabetes and COPD. A key objective is to develop methodology that will allow mining and linkage of existing health information that will enhance the utility of existing datasets to inform policy and practice.

A profile of hospital patients admitted with chronic obstructive pulmonary disease (COPD), diabetes and chronic heart failure (CHF). Assoc. Prof Paul Dugdale, Prof Nicholas Glasgow, Linda Halliday in collaboration with SCIPPS research group.
This project will use admitted patient care data to provide a profile of patients who are admitted into ACT and SWAHS public hospitals who have CHF, COPD or diabetes and understanding of their level of service utilisation. These data will be used to identify opportunities for policy interventions and evaluation of these interventions.

Establishing data linkage capability in the ACT. Linda Halliday, Assoc. Prof Paul Dugdale in collaboration with NSW Health, Cancer Institute of NSW.
Health record linkage brings together health related data from two or more sources linked by common fields. Health data linkage makes best use of data that are already collected on a routine basis as part of health-care but reside in different repositories. This project will involve ACT Health participating in the Centre for Health Record Linkage (CHeReL) as a joint venture partner. ACT Health will contribute to the project to enable data linkage of health records for population-

based health outcomes and health services research. This project is to establish a master linkage key using ACT data sets that will enable linking of health related datasets from various sources.

Geospatial analysis of ACT health data.
Dr Matt Beatty (CSIRO), Guy Barnett (CSIRO), Amy Griffin (UNSW), Cathy Baker (ACT Health)
This project investigates the environmental correlates of obesity in children living in the ACT through the use of geo-spatial and multi-level modelling techniques. This project will involve investigations using the ACT Year 6 Physical Activity and Nutrition Survey, the ACT Kindergarten Screening Program data, ACTPLA services data and geo-spatial mapping software.

An Interdisciplinary Complex Systems Approach to Understanding the Obesity Epidemic.
Jane Dixon, Helen Berry, Cathy Banwell, Rob Dyball, Katrina Proust, Sharon Friel – ANU, Matt Beatty, Guy Barnett – CSIRO, Amy Griffin – UNSW, Cathy Baker - ACT Health. This project involves two components. The first component is the development of a model of factors contributing to the obesity epidemic using an ecosystems framework. This framework describes the social, economic and environmental factors, both distal and proximal that impact on population obesity. The second component is to develop a paper for publication that presents this model and how it can contribute to our understanding of the obesity epidemic. A second short paper may be developed that discusses the implications this model has for policy makers.

Monitoring falls in older persons in the ACT. Population Health Research Centre in collaboration with the ACT Falls Clinic
This project involves establishing a falls surveillance system in the ACT that will monitor and provide ongoing information for policy and program development.

FUNDING

2006 Menzies Centre for Public Health Policy and Practice, ANU

The Serious and Continuing Illness Policy and Practice Study (SCIPPS)

Assoc Prof P. Dugdale.

PUBLICATIONS

Population Health Division and ANU. *The Health Impacts of Smoke from the Canberra Bushfires of January 2003.* Health Series 2004.

Dugdale P. Guest C. Kelsall L. 2006 *ACT Chief Health Officer's Report 2006.* ACT Government,

Briscoe N. Dugdale P. and the ACT Child Death Review Team. 2006 R*eview of ACT child deaths 1992–2003.* ACT Government.

Books

Pencheon D, Guest CS, Melzer D, Gray JAM (editors) Oxford Handbook of Public Health Practice. Oxford: Oxford University Press. Second edition, 2006, xxxiv + 691 pages.

Pencheon D, Guest CS, Melzer D, Gray JAM (editors) Manuale Oxford della Pratica in Sanita Pubblica. Revised Italian edition of Oxford Handbook of Public Health Practice 2004.

Chapters

Guest CS, Mackay K. Health status, the healthcare sector and sustainability. In: Furnass B, Ramsey P (eds). Making Canberra Sustainable. Canberra: Manning Clarke House/Ginninderra Press, 2005: 113–125

Articles

Deeble M, Guest C for ACT Health Acute Response Team. Influenza outbreak in an aged care facility, Australian Capital Territory. PROMED 8 December 2006.

Woodruff RE, Guest CS, Garner MG, Becker N, Lindsay M. Early Warning of Ross River Virus Epidemics: Combining Climate and Mosquito Surveillance Data. Epidemiology 2006; 17: 1–6.

Guest C. Avian Influenza. Healthy Territory 2006; 15: 6.

Guest C. Increases in pertussis in the Australian Capital Territory. Healthy Territory 2006; 15: 7.

Herceg A, Geijsen A, Guest CS, Bialkowski R. SARS and biothreat preparedness in general practices in the Australian Capital Territory. Communicable Diseases Intelligence 2005; 29: 277–282.

Hiam R, Guest CS, Isaac-Toua G. An evaluation of public health interventions during a pertussis outbreak in the ACT, 2003. Australian & New Zealand Journal of Public Health 2005; 29: 552–555.

Guest C. Influenza: business as usual, and pandemic preparation. Canberra Doctor May 2005:1–2.

Guest CS. Preparing for biothreats. ANU Centre for Health Stewardship website, 2004 http://healthstewardship.anu.edu.au

Greig J, Carnie J, Tallis G, Ryan N, Tan A, Zwolak A, Leydon J, Guest C, Hart W. The Outbreak of Legionnaires' Disease at the Melbourne Aquarium, April 2000. Medical Journal of Australia 2004; 180: 566–573.

Contributor

Communicable Disease Network of Australia: Annual Report 2005. Communicable Disease Intelligence 2006; 30:301–318

National Centre for Epidemiology and Population Health. Health impacts on Canberra residents of smoke from the January 2003 bushfires. Australian National University, 2004. www.act.gov.au

Australian Government Department of Health and Ageing. Protecting Australia from Communicable Disease: Everybody's Business. A special report from the Commonwealth Chief Medical Officer. Canberra : DOHA 2004

PSYCHOLOGY (ACUTE SUPPORT)

STAFF

Mr Tony Corless - Mclin Psych, BSc (Hons), Senior Psychologist, Acute Support Psychology at TCH.

RESEARCH PROJECTS

A QI/Research project on the nature, incidence and effects of depression and perfectionism in TCH Cardiac Rehabilitation Program (CRP) patients.

The aims were: (i) to assess the incidence of depression symptoms in TCH cardiac rehab patients and to assess the effectiveness of current screening questions in identifying depressed patients; (ii) to determine the incidence of perfectionism, because it is linked with vulnerability to depression and it has been shown to interfere with the psychological treatment of depression; and (iii) to study the incidence and nature of depression specifically in female cardiac patients, as this is an under-studied aspect of the research literature on cardiac depression. The results were used to modify assessment and treatment procedures as required.

FUNDING

The Canberra Hospital Private Practice Fund provided funding for some of the psychometric instruments used in the research.

PUBLICATIONS

Corless T. *Depression in Cardiac Rehabilitation Patients: Implications for Interventions.* ACRA Newsletter, 15, 2, April 2005.

PRESENTATIONS/ABSTRACTS

The incidence and nature of depression and perfectionism in male and female cardiac rehabilitation patients: Implications for cognitive-behavioural interventions. Corless T. Abstract of Papers, World Congress of Behavioral and Cognitive Therapies, Kobe, Japan, July 2004. Poster presentation.

RESEARCH CENTRE FOR NURSING AND MIDWIFERY PRACTICE

STAFF

Leonie Johnson – NP, RN, BHlthSc (HEd), A&E Cert., Grad Dip Ed; Grad Dip Management; MNur(NP); A/g Director

Ann Marie Dunk – RN BHlthSc (Nurs), Wound Care Cert, Nurse Researcher

Michelle Cole – Office Manager

STUDENTS

The Research Centre for Nursing and Midwifery Practice provides a physical and intellectual environment that supports Nursing and Midwifery post-graduate students across ACT Health.

COLLABORATIVE ASSOCIATES 2005–2007

Christine Duffield, Adjunct Professor Nursing, Midwifery & Health, University of Technology Sydney

Cheryle Moss Associate Professor Research Co-Ordinator, Graduate School of Nursing & Midwifery, Victoria University of Wellington, New Zealand

Jessica Wenzel , Nursing Student, University of Michigan, USA

Sarah Winch,Adjunct Senior Lecturer, The University of Queensland

Joanne Ramadge, Senior Clinical Adviser, Aged Care, Department of Health and Ageing, Canberra ACT (Commonwealth)

Jan Taylor, Senior Lecturer in Nursing, Nursing, Division of Health, Design and Science, University of Canberra

Jill Guthrie Senior Research Fellow, University of New South Wales

Anne Gardner, Associate Professor, Cabrini – Deakin Centre for Nursing Research

John Daly, Professor, University of Western Sydney, NSW

Jan Duke, Professor, Victoria University of Wellington, NZ

Gordon Waddington, Associate Professor in Physiotherapy, School of Health Sciences, Division of Health, Design and Science, University of Canberra

Di Pelletier, Honorary Associate, Faculty of Nursing, Midwifery and Health. University of Technology, Sydney

Jocalyn Lawler' Professor and Dean, Faculty of Nursing & Midwifery

University of Sydney

Sue Bale, Associate Director , Nursing, Gwent Health Care NHS Trust, Wales, UK

Philip Darbyshire, Professor , Chair of Nursing Women's & Children's Hospital Adelaide, University of South Australia

Martin Ferguson-Pell, Director, Research & Development at the Royal National Orthopaedic Hospital, London UK

Tiffany Conroy, , The Joanna Briggs Institute, Royal Adelaide Hospital

Sue Daly, Operations Director, National Institute of Clinical Studies, Vic

Eimear Muir- Cochrane, PhD Candidate (Now Assoc Professor), School of Nursing & Midwifery , Flinders University, SA

Professor Ken Walsh, Clinical Professor of Nursing, Victoria University of Wellington and Waikato District Health Board. Director, Nursing Research and Development Unit, Waikato Hospital

RESEARCH PROJECTS

Research Centre for Nursing and Midwifery Practice conducts and supports a diverse range of research projects. Projects conducted through the Centre have included:

Mapping and intervention for prevention of pressure injury study (MIPPI)
Associate Professor Anne Gardner, RN, PhD, Ann Marie Dunk, RN, BHlthSc (Nurs), Wound Care Cert, Marlene Eggert, RN BapplSc(nsg) MN (Bioethics) Renal Cert, Grad Cert (Diab. Ed) Grad. Dip (Mental Health Nsg), Professor Glenn Gardner RN PhD and Associate Professor Donna Mowbray RN MHA
Funding: AusIndustry R&D

Aged care nurse practitioner pilot project
Paul Arbon RN, PhD, Kasia Bail RN, BN, Marlene Eggert RN, MN, Anne Gardner RN, Crit Care Cert, BA, MPH, PhD, Sonia Hogan RN, MN, Christine Phillips GP, Nicole van Diemen RN, Gordon Waddington PhD.
Funding: ACT Health, Australian Government: Department of Health and Ageing

A survey of nurses' perceptions and product choices of infected wounds
Ann Marie Dunk RN BHlthSc (Nurs), Wound Care Cert
Funding: Tyco Healthcare Australia (Infection Control Scholarship 2006)

Heel pressure injuries: A pilot exploration of the anatomical location of Stage 1 and 2 pressure injury foci on the heels of adult medical and surgical inpatients (HPIM).
Ann Marie Dunk, RN, BHlthSc (Nurs), Wound Care Cert, Anne Gardner RN Crit Care Cert. BA MPH PhD, Gordon Waddington BAppSc (Physio), GradDipAppSc, MExSpSc, MappSc (SportsPhysio),GCHE PhD, Rodger Adams PhD MA, Cecelia Wakeling RN BHthSc(Nurs), GradDipMidwifery, Courtney Aitken RN BNurs, GradDipCritCareNurs, Gillian Hazelton RN BHthSc(Nurs), GradDipPopHealth.

A pilot study measuring the interface pressures of the heels of healthy elderly adults (HHIPI).
Ann Marie Dunk, RN, BHlthSc (Nurs), Wound Care Cert, Anne Gardner RN Crit Care Cert. BA MPH PhD, Gordon Waddington BAppSc (Physio), GradDipAppSc, MExSpSc, MappSc (SportsPhysio),GCHE PhD, Rodger Adams PhD MA, Cecelia Wakeling RN BHthSc(Nurs), GradDipMidwifery, Courtney Aitken RN BNurs, GradDipCritCareNurs, Gillian Hazelton RN BHthSc(Nurs), GradDipPopHealth.

ACT Health Pressure Injury Point Prevalence Study 2006 – PIP06.
AM Dunk RN BHlthSc (Nurs); L.Johnson NP, RN, BHlthSc (HEd), A&E Cert., Grad Dip Ed; Grad Dip Management; MNur(NP); C.Johnston RN BNurs

Priorities for Nursing and Midwifery research in a tertiary health care setting in the ACT – Pilot Project. AM Dunk RN BHlthSc (Nurs); Jan Taylor RN, PhD

Establishment of a sustainable process for pressure injury management across the ACT.
A Gardner RN, PhD and AM Dunk RN BHlthSc (Nurs). Funding: Australian Healthcare Quality Grant

Mapping the terrain: Identifying the needs of rural women with breast cancer
Catherine Jones RN BApSci(Nursing) MN PhD; Corinne Trevitt RN MN GradDipGerontics
Funding: Australian Government : Department of Health and Ageing

Discourse analysis of hospital nursing policies
Kasia Bail RN, BN, Robert Cook RN, BA (Hons), Anne Gardner RN, Crit Care Cert, BA, MPH, PhD
Funding: University of Canberra and The Canberra Hospital

The effect of a nurse initiated sedation protocol on sedation goal score compliance: An intervention study
K. Feeley RN, Intensive Care Cert, Crit Care Cert; A.Gardner RN, Crit Care Cert, BA, MPH, PhD ; I.Mitchell FJFICM; I.A.Leditschke1 FJFICM
Funding: The Canberra Hospital Private Practice Fund

The MDOT study: menstrual disturbance of teenagers
Melissa Parker RM RN BNurs, Candidate, Master in Nursing (Research)
Funding: ACT Health, Health and Medical Research Support program – Fellowship Grant.

Effect of diabetic food choice restriction on mental health
Marelene Eggert RN BapplSc(nsg) MN (Bioethics) Renal Cert, Grad Cert (Diab.Ed) Grad. Dip (Mental Health Nsg) ; Paul Arbon RN, PhD
Funding: ACT Health, Health and Medical Research Support program

Details of other research projects supported through the Research Centre for Nursing and Midwifery Practice are available in the Nursing and Midwifery Research and Quality Initiatives Compendium 2007 @ http://www.health.act.gov.au/c/health?a=sendfile&ft=p&fid=-813504686&sid=

PUBLICATIONS

Aged Care Nurse Practitioner Pilot Project - Final Report to the Australian Government 2006.
Available at www.health.act.gov.au/nmact

Arbon P et al (2006) *Researching Aged Care Nurse Practitioners.* Journal article accepted subject to minor amendments by 'Journal of Clinical Nursing', October 2006

Arbon, P. *Planning medical coverage for mass gatherings in australia: what we currently know.* Journal of Emergency Nursing March 2005

Arbon, P. *Understanding experience in nursing*. Journal of Clinical Nursing 13 2004

Bail K., Gardner A, Cook R., (2006) *Confusion within hospital nursing policies: a discourse analysis*. Journal article submitted to 'Nursing Inquiry', 2006.

Feeley. K, Gardner. A. *Sedation and analgesia management for mechanically ventilated adults: Literature review, case study and recommendations for practice.* Australian Critical Care'. 19(2) 2006

Feeley. K, Gardner. A; Mitchell. I; Leditschke. I.A. *The effect of a nurse initiated sedation protocol on sedation goal score compliance: an intervention study.* Abstract published Medicina Intensiva World Federation Journal of Critical Care (congress issue 2005 p113)

Gardner A., Dunk AM., Eggert M., Gardner G., Wellman D. *Pressure injury: An exploration the relationship between risk factors and interface pressure.* Primary Intention Journal November 2006

Gardner A; Hughes D, Henson, R, Osborne S, Gardner G. *Best practice in stabilisation of oral endotracheal tubes: a systematic review.* Australian Critical Care. 18(4) 2005

Gardner G; Gardner.A; Proctor, M. *Nurse practitioner education: a researched based curriculum structure.* Journal of Advanced Nursing 47(2) 2004.

PRESENTATIONS/ABSTRACTS

Bail K et al *Field Notes: Researching Nurse Practitioners* Verbal presentation, Australian Nurse Practitioner Association, Gold Coast, 12-14 October 2006.

Bail K., Gardner A, Cook R., (2006) The Caps and Cloaks of Hospital Nursing Policies - Presentation at Nursing Grand Rounds, 26 May 2006 ACT Health

Bail K., Gardner A, Cook R., (2005) The Caps and Cloaks of Hospital Nursing Policies. Presentation given at Clinical Scholarship Conference, 14 October 2005 University of Canberra

Bail K., Gardner A, Cook R., (2005) Hospital Nursing Policies – A Discourse Analysis. Poster presentation: The Canberra Region Health and Medical 11th Annual Conference, Canberra ACT 12, June 2005

Boogaerts M, Gardner A, Dunk AM (2004, March) Reinforcing and learning: the role of clinical support in effective implementation of a train-the-trainer phase in a pressure injury prevention project. Poster: Australian Wound Management Association (AWMA) 5th National Conference, Hobart TAS

Dunk AM, Gardner A., Eggert M (November 2006) A study of Waterlow pressure risk factors and interface pressures. Oral presentation: Australian Wound Management Association-North Territory Wound Management Symposium, Darwin, Northern Territory.

Dunk AM., Gardner A., Eggert M (2005) A study of Waterlow pressure injury risk factor scores and interface pressure. Oral presentation: The Canberra Region Health and Medical 11th Annual Conference, Canberra ACT.

Dunk AM, Gardner A, Gardner G, Osborne S (2004, March) Establishment of a sustainable process for pressure injury management across the ACT. Poster: Australian Wound Management Association (AWMA) 5th National Conference, Hobart TAS

Dunk AM, Gardner A, Gardner G, Osborne S (2004, July) Establishment of a sustainable process for pressure injury management across Canberra, Australian Capital Territory. Poster: 2nd World Union of Wound Healing Societies Meeting, Paris France.

Dunk AM, Gardner A, Gardner G, Osborne S (2004, August) Establishment of a sustainable process for pressure injury management across the Australian Capital Territory. Poster: 2nd Australasian Conference on Safety & Quality in Health Care, Canberra ACT.

Eggert M., Arbon P (2005) Trying to stick to the diet – a hard task for people with diabetes. Oral presentation: The Canberra Region Health and Medical 11th Annual Conference, Canberra ACT.

Eggert M (September 2005) The effect of diabetic food choice restrictions on mental health. Poster presentation: ADS and ADEA Annual Scientific Meeting, Perth.

Feeley K, Collins K, Madsen K, Mitchell I, Whiting J, Gardner A (2003, September) Sedation audit in intensive care: a snapshot. Paper: Australian and New Zealand Intensive Care Society and the Australian College of Critical Care Nurses 28th Annual Scientific Meeting, Cairns QLD

Feeley K., Gardner A., Michell I., Leditschke A., (March, 2005) The Effect of a nurse initiated sedation protocol on sedation goal score compliance: and intervention study. Poster presentation: 25th International Symposium on Intensive care and emergency medicine, Brussels, Belgium.

Feeley K., Gardner A., Michell I., Leditschke A., (2005) The Effect of a nurse initiated sedation protocol on sedation goal score compliance: and intervention study. Oral presentation: 9th Congress of the World Federation of Societies of Intensive and Critical Care Medicine, Argentina

Gardner A et al "Falls and Infections in Aged Care – A Nurse Practitioner Role" Poster presentation, Quality and Safety Conference, Melbourne, 24 August 2006.

Gardner A., Dunk AM Eggert M. (March 2006) The relationship between pressure injury risk assessment scores and interface pressure. Oral presentation: Australian Wound Management Association 6th Nation al Conference, Canberra ACT.

Hogan S et al "Researching Aged Care Nurse Practitioners" Poster presentation, International Council for Nurses Conference, South Africa, 27 June 2006.

Hogan S, Bail K, et al "Bridging the Divide", Verbal presentation, Royal College of Nursing Australia Conference, Cairns 14 July 2006.

Jones C., Trevitt C., (July 2006) Oral presentation: Mapping the terrain: Identifying the needs of rural women with breast cancer. Cancer Nurses Society of Australia Winter Congress. Adelaide. South Australia.

Keating P, Gardner A, Dunk AM (2004, March) Training in the field: a train-the-trainer exercise incorporating a clinical practice improvement plan for clinical nurses across the ACT. Poster: Australian Wound Management Association (AWMA) 5th National Conference, Hobart TAS

Parker M., Sneddon A., and Arbon P (June, 2005) "Calling Canberra Chicks" to explore the prevalence of menstrual disorders of teenagers: a report on the MDOT study. Oral presentation: The Canberra Region Health and Medical 11th Annual Conference, Canberra ACT.

Parker M., Sneddon A., and Arbon P (August, 2005) "Calling Canberra Chicks" to explore the prevalence of menstrual disorders of teenagers: a report on the MDOT study. Oral presentation: The Health Outcomes Conference, Canberra ACT

AWARDS

Cook R., Bail K., Gardner A (2005) "Wash hands, prepare equipment, assist disease": Traditionalist representations of nursing practice in hospital organisational nursing policies. Oral presentation: The Canberra Region Health and Medical 11th Annual Conference, Canberra ACT. *First prize winner of section, 12, June 2005*

Feeley K., Gardner A., Michell I., Leditschke A., (2005) The Effect of a nurse initiated sedation protocol on sedation goal score compliance: and intervention study. Oral presentation: 9th Congress of the World Federation of Societies of Intensive and Critical Care Medicine, Argentina – Kathy Feeley Research Excellence Award 2006, The ACT Nurses & Midwives Awards.

Gardner A., Dunk AM., Eggert M., Gardner G., Wellman D. Pressure Injury: An exploration the relationship between risk factors and interface pressure. Primary Intention Journal November 2006 Australian Wound Management Association, Comfeel Literary Award - best original research article of 2006.

Parker M., Sneddon A., and Arbon P (September, 2005) *MDOT Study: Menstrual Disorders of Teenagers*. Poster presentation: 9th World Congress on Endometriosis, Maastricht, The Netherlands - First prize winner.

Parker M., Sneddon A., Arbon P (May 2006) *MDOT Study: Menstrual Disorders of Teenagers.* Poster presentation: University of Canberra Research Student Poster Competition 2006 The Pro-Vice Chancellor's Research and Information Management Prize

RENAL UNIT

STAFF

Dr Martin P Gallagher – MBBS, FRACP, Acting Director, TCH Dept of Renal Medicine, Lecturer ANU Medical School

Dr Michael C Falk – MBBS, FRACP, Staff Specialist Nephrologist, Lecturer ANU Medical School

Dr Balaji Hiremagalur – MB BS, FRACP, Staff Specialist Nephrologist, Lecturer ANU Medical School

Dr Girish S Talaulikar – MBBS, FRACP, Grad Dip Epidemiology, Grad Cert Higher Education, Staff Specialist Nephrologist, Lecturer ANU Medical School

Dr Gavin M Carney – MBBS, FRACP, FACLM, LLB, Physician & Nephrologist, TCH Visiting Medical Officer, Senior Lecturer ANU Medical School

Dr Anthony R Clarkson – MBBS, MD, FRACP, FRCP (Ed), Acting Director, TCH Renal Services, Lecturer ANU Medical School

Dr David Gracey – MBBS, FRACP, Staff Specialist Nephrologist (part-time)

RESEARCH PROJECTS

The ALTERNATE Study
The objective of this non-interventional study is to estimate the haemoglobin levels in subgroups of the heterogeneous dialysis patient population 12 months after conversion to Aranesp once every two weeks (Q2W) in clinical practice. Ethics approval for this study was granted on 12 December 2005 and recruitment began in February 2006.

Cardiac Risk Assessment in Renal Dialysis Patients – Study 1 (2005)
The aim of this study was to identify those dialysis patients who are at particular risk of developing heart disease. Blood samples were analysed for troponin T, troponin I, C-reactive protein (CRP), brain natriuretic peptide (BNP) and tumour necrosis factor (TNF).

Study 2 (2005-2006)
In this phase of the study, participants wore a holter monitor for a 48hour period in their normal dialysis cycle (one day off dialysis then one dialysis day) to assess their cardiac status. The aim was to then correlate ECG findings with serum levels of troponin T to determine whether it is likely to be a reliable indicator of cardiac risk status.

Study of Heart and Renal Protection (SHARP) (2004–2009)
The primary aim of SHARP is to assess the effects of lowering LDL-cholesterol with combined "ezetimibe/simvastatin" versus placebo on the time to a first 'major vascular event' (defined as non-fatal MI or cardiac death, stroke, or revascularisation). Secondary aims include an assessment of the effects of "ezetimibe/simvastatin" on progression to end-stage renal disease; various causes of death; stroke and hospitalisation for angina.

AMGEN Protocol 20030112 (Aranesp) (2003–2004)
This study was designed to assess the proportion of CKD subjects (in the pre-dialysis stage) maintaining a mean haemoglobin > 100g/L when administered subcutaneous Aranesp once every 4 weeks. The study started in July 2003 and close out of our site occurred in January 2005.

Neoral to Cyclosporine (2003)
This short-term observational study examined the effects of switching stable renal transplant patients from Neoral to generic cyclosporine. The study has been completed and the results were published in Nephrology, 9, 2004, 418–421.

FUNDING

2005
AMGEN Protocol 20030112 $5,280
SHARP Study $27,814.93

2005
SHARP Study $39,012.29

PUBLICATIONS

Talaulikar G, Gallagher MP, Carney GM, Jadeer AA, Falk MC, Hiremagalur B. *Switchover to generic cyclosporine in stable renal transplant recipients: A single unit experience.* Nephrology 2004, 9, 418–421.

Akima S, Kent A, Reynolds G, Gallagher M, Falk M. *Indomethacin and Renal Impairment in Neonates.* Paediatric Nephrology 2004, 19: 490–3

TRAUMA AND ORTHOPAEDIC RESEARCH UNIT

STAFF

Associate Professor Paul Smith - BMBS FRACS (Ortho) Director

Dr Damian McMahon - MB BS FRACS Director

Dr Rachel Li - MD PhD Senior Researcher

Dr Jennie Scarvell - PhD Senior Researcher

COLLABORATIVE ASSOCIATES

Ms Jenny Cahill – BSc App Sc Speech Pathology, MPhil

Ms Cassandra Mosko - RN

Ms Diana Perriman – Bapp Sc (Physio), MSc

Ms Roxanne Sample - BHuman Movt Sc (Hons)

STUDENTS

Ms Angela Fearon – BappSc (Physio), MPhysio – PhD Student

RESEARCH PROJECTS

Heparanase (HPA) and angiogenic factors of rheumatoid arthritis. Assessment of heparanase and angiogenic factors in synovial fluid of RA patients.

Heparanase (HPA) and angiogenic factors in siblings with RA. This comes under project 1, however with particular focus on patient and their family.

Heparanase (HPA) and angiogenic factors in osteoarthritis. This comes under project 1, however with focus on OA patients.

Effect of HPA antagonist (P188) in cell model and earlfy stage of RA animal model. Use of cell model and animal model to study HPA inhibitors, such as P188 or other compounds with particular interest in Australian native products.

Study on HPA stimulators – Bone healing factors. Focal stimulators of HPA

Greater Trochanteric Pain Syndrome (GTPS). Investigation of prevalence and diagnostic features of GTPS

Electrongoniometry knees. Measurement of daily knee excursions using electrogoniometer and IDEEA system

Intermedullary Suction System (ISS) on beef bone in vitro study (fat embolus)

AC joint reconstruction strength testing. Investigation of tendon graft strength for AC joint reconstruction using breaking strain testing.

HRQoL with infection in Total Joint Replacement. Analysis of results of TJR infection in terms of quality (QoL) measures.

Renovate Study. Comparison of two drug regimens on venous thromboembolism following THR.

Record Study. Comparison of two drug regimens on venous thromboembolism following THR.

Record 2 Study (hip). Comparison of two drug regimens on venous thromboembolism following THR.

Record 4 Study (knee). Comparison of two drug regimens on venous thromboembolism following THR

Remodel Study – knee. Comparison of two drug regimens on venous thromboembolism following THR

FUNDING

We receive funding from private donations, industry support, participation in multicentre trials and formal granting. Supporting grants have been received from the National Health and Medical Research Council, Australian Orthopaedic Association and The Canberra Hospital Private Practice Fund.

PUBLICATIONS

Fisher AA, Davis MW, Goh S, Smith PN. *The second hip fracture – an analysis of 84 elderly patients.* J Orthop Trauma 2004 18:256.

Li RW, Leach DN, Myers SP, Lin GD, Leach GJ, Waterman PG. *A new anti-inflammatory glucoside from Ficus racemosa L.* Planta Medica 2004; 70(5): 385–482.

Li RW, Myers SP, Leach DN, Lin GD, Leach GJ, Brushett DJ, Waterman PG. *Anti-inflammatory activity, cytotoxicity and active compounds of Tinospora smilacina Benth.* Phytotherapy Research 2004; 18(1):78–83.

Casaschi A, Maiyoh GK, Rubio BK, Li RW, Adeli K, Theriault AG. *The chalcone xanthohumol inhibits triglyceride and apolipoprotein B secretion in Hep G2 cells.* 2004; 134(6):1340–6.

Scarvell JM, Smith PN, Refshauge KM, Galloway HR, Woods KR. *Evaluation of a method to map the tibiofemoral contact points in the healthy knee.* Journal of Orthopaedic Research 2004. Vol. 22 (4): 788–93

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PRESENTATIONS/ABSTRACTS

Measuring Bioburdens. Bryant J and Smith PN. Australian Tissue Banking Forum, St Vincent's Hospital, Sydney, April, 2004. Oral presentation.

Report of the ACT Bone Bank. Bryant J and Smith PN. Australian Orthopaedic Association ACT Branch, November, 2004. Oral presentation.

Quality of life after post-operative infection in total joint replacement. Cahill J, Smith PN, Butler J, Shadbolt B. Australian Orthopaedic Association ACT Branch, November, 2004. Oral presentation.

Kinematic consequences of chronic ACL injury. Scarvell JM, Smith PN, Galloway H, Refshauge KM, Woods K. American Academy of Orthopaedic Surgeons, San Francisco, March 2004. Oral presentation.

Comparison of kinematics in the healthy and ACL injured knee, using MRI. Scarvell JM, Smith PN, Galloway H, Refshauge KM, Woods K. American Academy of Orthopaedic Surgeons, San Francisco, March 2004. Oral presentation.

Does ACL reconstruction restore normal knee kinematics? Scarvell JM, Smith PN, Galloway H, Refshauge KM, Woods K. Combined Orthopaedic Associations Meeting, Sydney October, 2004. Oral presentation.

Kinematic consequences of chronic ACL injury. Scarvell JM, Smith PN, Galloway H, Refshauge KM, Woods K. Combined

Orthopaedic Associations Meeting, Sydney October, 2004. Oral presentation.

MRI analysis of kinematics and degeneration in knee osteoarthritis. Scarvell JM, Smith PN, Galloway H, Refshauge KM, Woods K. Combined Orthopaedic Associations Meeting, Sydney October, 2004. Oral presentation.

Does knee reconstruction restore knee kinematics? An in vivo MRI study over two years. Scarvell JM, Smith PN, Refshauge K, Galloway H, Woods K. Australian Orthopaedic Association ACT Branch, November, 2004. Oral presentation.

ACT Bone Bank Report. Bryant J, Smith PN. Australian Orthopaedic Association ACT Branch, November, 2005. Oral presentation.

Infected knees vs infected hips; outcomes exposed. Cahill J, Smith PN, Butler J, Shadbolt B. Australian Orthopaedic Association ACT Branch, November, 2005. Oral presentation.

Intramedullary pressures in long bone reaming. Smith PN. Australian Orthopaedic Association ACT Branch, November, 2005. Oral presentation.

AWARDS

Intermedullary Suction System (ISS) on beef bone in vitro study (fat embolus) – Best discussion generator: Australian Orthopaedic Association ASM 2005

HRQoL with infection in Total Joint Replacement – Best paper: Australian Orthopaedic Association ASM 2005, Best clinical paper: The Health and Medical Research Conference, ACT 2005

CANBERRA REGION HEALTH AND MEDICAL RESEARCH CONFERENCE

2004

Prize Winners

Best Nursing and Allied Health Poster Presentation – Catherine Burns. *Emotional support and duration of survival in the advanced cancer setting*

Best Nursing and Allied Health Oral Presentation – Jan Taylor. *Please can't someone pick up the Ajax and clean the bath? Women managing fatigue after birth*

Best Student ASMR Poster Presentation – Karl Brown. *The role of histone variant h2a.z in vertebrate early development*

Best Ageing and Degenerative Disease Oral Presentation – Walter Abhayaratna. *Left ventricular dysfunction and aortic stiffness in older adults.*

Best Inflammation and Disease Oral Presentation – Vanessa Smart. *Expression of a foreign gene in a plant can alter protein structure and immunogenicity.*

Best Clinical Trials and Clinical Science Oral Presentation – David Croaker. *A new technique suggests frequent abnormalities in heart rate control in Hirschprung's disease.*

Best Keynote or Invited Speaker Presentation – Matthew Cook. *From rare alleles to common autoimmune diseases.*

Best Clinical Poster Presentation – Jennie Scarvell. *Kinematic MRI analysis of kinematics in knee osteoarthritis.*

Best Basic Science Poster Presentation – Hilary Warren. *CD8 T cells expressing NK receptors in cord blood.*

Best New Investigator Oral Presentation – Kirsten Peters. *Fine scale mapping of the IBD8 locus on Chromosome 16.*

CANBERRA REGION HEALTH AND MEDICAL RESEARCH CONFERENCE

2005

Prize Winners

Best Nursing and Allied Health Oral Presentation – Robert Cook. *Wash hands, prepare equipment, assist disease: traditionalist representations of nursing practice in hospital organisational nursing policies.*

Best New Career Investigator Oral Presentation – Carola Vinuesa. *A systematic screen for autoimmune regulators leads to the discovery of roquin, a novel gene that represses lupus and diabetes.*

Best Clinical Research Oral Presentation – Jenny Cahill. *The quality of life after infection in total joint replacement.*

Best Basic Science Oral Presentation – David Linares. *CNS tissue destruction induces tolerance to neuroantigens.*

Best Basic Science Poster Presentation – Julia Ellyard. *The role of heparin in eotaxin-mediated eosinophil recruitment: Important consequences for the development of Th2-mediated tumour immunotherapies.*

Best Medical Student Poster – Carlos Chung. *Characterisation of the radial glia and astrocytic lineage in human fetal cerebral cortex.*

Best Clinical Research Poster – Gordon Waddington. *Changing wrist posture significantly improves therapist comfort during mobilisation.*

Most Creative Poster – Michelle Nelson. *Influences of DOPA on protein degradation and cellular antioxidant defences.*

Best ASMR Member Presentation – Adrian Liston (oral presentation). *Genetic of defective T Cell tolerance in autoimmune diseases.*