



# SPHPM Annual Report

2008



The School of Public Health  
and Preventive Medicine is a  
leading centre for clinical and  
population health research.

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# Overview

The School of Public Health and Preventive Medicine (SPHPM) within the Monash University Faculty of Medicine, Nursing and Health Sciences, is one of the largest Schools of Public Health in the Asia Pacific Region, providing extensive opportunities for education, collaborative research and community engagement.



## **SPHPM Executive Group.**

*Standing, left to right:* Professor Peter Cameron, Associate Professor Max de Courten, Professor Brian Oldenburg, Associate Professor Damien Jolley, Professor John McNeil, Professor Helen Keleher, Professor Bob Atkins, Professor Joan Ozanne-Smith, Dr Rob Hall, Dr Elizabeth Douglas and Professor Andrew Tonkin.

*Seated, left to right:* Associate Professor Chris Reid, Professor Flavia Cicuttini, Ms Lynda Caldwell, Dr Chris Stevenson, Professor Just Stoelwinder, Professor Robert Burton and Dr Belinda Gabbe.

*Absent:* Dr Helena Teede, Professor Paul O'Brien, Professor Paul Myles, Professor Steven Cordner, Professor Andrew Forbes, Associate Professor Wendy Brown, Dr Anna Peeters, Associate Professor Bebe Loff, Professor Brian Priestly, Dr David Goddard, Professor Henry Krum, Associate Professor Karin Leder, Professor Malcolm Sim, Dr Martha Sinclair, Associate Professor Rory Wolfe, Professor Rachelle Buchbinder, Professor Michael Abramson and Ms Martine Radegonde.

SPHPM was formed in 2008 through linking the Department of Epidemiology and Preventive Medicine (DEPM), the Monash Institute of Health Services Research (MIHSR), the Department of Forensic Medicine (DFM) – the University component of the Victorian Institute of Forensic Medicine (VIFM), a large statutory authority funded by the Department of Justice – and the Centre for Obesity Research and Education (CORE). The Department of Health Social Science (DHSS) joined in January 2009. Additionally, SPHPM is home to the Australasian Cochrane Centre, the federally-funded organisation for training and communication for the many Cochrane Groups throughout Australasia.

The School's mission is to develop and disseminate an evidence base for public health and preventive medicine practice and policy. SPHPM is primarily located at the Alfred Medical Research and Education Precinct (AMREP) in Melbourne, with staff at various Monash campuses and VIFM.

The predecessor to Monash's School of Public Health and Preventive Medicine was the Department of Social and Preventive Medicine, inaugurated at Monash University under its foundation Professor and Head, Dr Basil Hetzel in June 1968. Professor John McNeil, current Head of School, has been DEPM Head of Department since 1986 (pictured, left, with Associate Professor Damien Jolley, right).

## Research

The School has over 300 staff actively involved in research and education in a range of public health and clinical research disciplines addressing most national health priority areas. These include clinical epidemiology, health services research, international health, occupational and environmental health for projects across Australia as well as in developing countries. The School has a leadership role in the establishment of 13 clinical registries for management and analysis data (see 'Registries' section). Additionally, it has a number of Centres of Excellence. During 2008, SPHPM had a research income of \$23 million.



## Education

SPHPM contributes to and offers undergraduate and postgraduate programs. It plays the lead role in one theme of the five-year undergraduate medical degree (MBBS) and contributes to the Bachelor of Biomedical Sciences.

The School offers an extensive program of postgraduate coursework including the Master of Public Health and specialty certificates, diplomas and masters courses in biostatistics, clinical research, forensic medicine, health services management, international health, international research bioethics, occupational and environmental health. Approximately 455 students were enrolled during 2008.

SPHPM has a strong record of achievement in doctoral training with many graduates obtaining prestigious post-doctoral awards and securing senior positions in Australia and overseas. During 2008, 96 PhD students were enrolled.

## Centres, institutes and units within school divisions

Australasian Cochrane Centre  
 Australian and New Zealand Intensive Care Research Centre (ANZIC-RC)  
 Australian Centre for Human Health Risk Assessment (ACHRA)  
 Australian Institute of Health Policy Studies (AIHPS)  
 Centre for Clinical Effectiveness  
 Clinical Informatics and Data Management Centre (CIDMU)  
 Cooperative Research Centre for Water Quality and Treatment (Epidemiology program)  
 Jean Hailes Foundation Research Centre  
 Monash Ageing Research Centre  
 Monash Centre for Occupational and Environmental Health (MonCOEH)

NHMRC Centre of Clinical Research Excellence (CCRE) in Therapeutics  
 NHMRC Centre for Research Excellence – Patient Safety (CRE-PS)  
 Turning Point Alcohol and Drug Research Centre (affiliate)

### Units

Biostatistics Unit  
 Cardiovascular Research Unit  
 Clinical Epidemiology Unit – Alfred  
 Clinical Epidemiology Unit – Cabrini  
 Clinical Pharmacology Unit  
 e-Health Research Unit (incorporating Health Informatics Education)

Epidemiology Modelling Unit  
 Gender and Medicine Research Unit  
 Health Operations Research Unit  
 Health Promotion and Policy Research Unit  
 Health Services Management Unit  
 Healthy Ageing Research Unit  
 Human Rights and Bioethics Unit  
 Infectious Disease Epidemiology Unit  
 International Public Health Unit  
 Kidney Disease Prevention Unit  
 Musculoskeletal Unit  
 Pre-hospital and Emergency Trauma Unit  
 Preventive Medicine Unit



# 2008 SPHPM highlights

## School formation

The new School of Public Health and Preventive Medicine was formally launched in June 2008.

This has been developed through the linking of the Department of Epidemiology and Preventive Medicine (DEPM), the Monash Institute of Health Services Research (MIHSR), the Department of Forensic Medicine (DFM) within the Victorian Institute of Forensic Medicine and the Centre for Obesity Research and Education (CORE). The Department of Health Social Science joined in January 2009. These divisions have a strong pre-existing record of friendship and collaboration.

This development gives great opportunities to revitalise our public health and applied clinical research at Monash University, and create and enhance partnerships and research collaborations. The new School has the capacity to draw together many strengths of public health research at Monash, and create centres of methodological support for clinical research across all major Monash teaching hospitals.

The administrative centre of the School is at DEPM. During 2008, two school-wide committees were established to review and assist the development of the School's research and teaching activities. Professor Brian Oldenburg convened the teaching committee and Associate Professor Damien Jolley convened the research committee.

Special Interest Groups (SIGs) have been formed for Registries, Epidemiological Modelling and Drug Epidemiology. A significant continuing challenge is to enable cross-disciplinary interaction and provide opportunities for younger staff to take on leadership roles.

The Registries SIG, under the leadership of Sue Evans and Peter Cameron, is valuable as the development of clinical registries as a major component of our research infrastructure is a significant goal of the School. The RSIG will represent a major opportunity to provide leadership in this area. The group meetings have been well attended by people from all over Melbourne.

Our water group played a major role in the success of the CRC for Water Quality. Our thanks go to the inspiring leadership of Don Bursill, who became a familiar figure within DEPM over the 14 years of the CRC's existence. The CRC has now evolved into a fully industry-funded not-for-profit entity: Water Quality Research Australia. Professor McNeil is an inaugural board member and the initial chair of the Board Research Advisory Committee.



Associate Professor Damien Jolley with colleague Dr Naomi Yupae, at PNG IMR Colloquium.

### **40<sup>th</sup> Anniversary Colloquium of the Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea 29 June to 3 July 2008. Damien Jolley reports.**

I was privileged to be invited to attend the 40<sup>th</sup> Anniversary Colloquium of the Papua New Guinea Institute of Medical Research, held in the IMR headquarters at Goroka, PNG, during the week of 30 June to 4 July, 2008. The colloquium addressed all research areas of the PNG IMR since its inception in 1968: respiratory diseases (particularly pneumonia and the pneumococcal conjugate vaccine development), virology and enteric diseases, vector-borne diseases (particularly malaria and the Malaria Vaccine Program), sexual health and women's health, genetics and of course, kuru.

There were many notable Australian and international epidemiologists and health scientists in attendance, including Professors Fiona Stanley AC (Telethon Institute, Perth), Suzanne Cory AC FAA FRS (WEHI), John Mathews (UniMelb), Brendan Crabb (Burnet Institute), Ian Riley (UQ). Former directors of PNG IMR present included Professor Michael Alpers AO FRS. The colloquium was opened by the Governor-General of PNG, Hon Grand Chief Sir Paulias Matane.

The PNG IMR was my inauguration into medical research and biostatistics. I was employed from 1980 to 1984 as a demographer and statistician at the beginning of the Institute's Malaria Research program. To hear of progress towards a malaria vaccine during the ensuing 25 years was humbling. Even more sobering was the news of the inexorable spread of HIV/AIDS throughout our nearest neighbour. There are opportunities for the School of Public Health and Preventive Medicine to take an active role in the support of medical research in PNG. Our Dean, Professor Steve Wesselingh, is the immediate past chairman of the IMR Buttressing Coalition, an international collaboration of medical institutions and schools that provides advice, guidance and practical assistance to the PNG IMR. Professor Fiona Stanley is the incoming chairman of the Coalition. On behalf of SPHPM, I undertook to explore ways in which we could provide training and expertise in PNG.

# New centres, registries and collaborations

A five-year NHMRC Health Services Grant was awarded for the establishment of an Epidemiology Modelling Unit, which was formed in February 2008. Dr Chris Stevenson (pictured right), formerly with the Australian Institute of Health and Welfare, heads the Unit, and is working with Dr Haider Mannan, Dr Anna Peeters and PhD student Ms Helen Walls. The Unit's research is analysis of existing trends and data patterns in burdens of disease, in order to predict likely needs for healthcare resources and effectiveness of different approaches to disease prevention. Such cost benefit analysis provides a foundation for developing costed options for policy makers, and also for decision-making frameworks for general practitioners and their patients, about lifestyle changes for improved health outcomes.



The Department is now home to the Transfusion Outcomes Research Collaborative (TORC), funded by the Australian Red Cross Blood Transfusion Service for three years. TORC began operation in 2008 and is staffed by Dr Louise Phillips, Ms Nikita Schembri and Ms Rosalie Clementson.

The collaboration is establishing two of its own registries, the first of their kind in Australia. The registries are based in DEPM. One of these registries will cover Neonatal Alloimmune Thrombocytopenia (NAIT), a condition that causes mild to serious haemorrhage in neonates and unborn babies due to low platelet count. This occurs where the mother has built up antibodies to the child's platelets which cross the placenta and attack the child's platelets. The other registry will cover thrombotic thrombocytopenic purpura which is a condition causing red cell destruction, bleeding, stroke and kidney failure, due to the formation of blood clots throughout the circulation. This can be isolated or occurring with other serious illnesses.

The establishment of registries is an important strategy to improve knowledge regarding the treatment of rare diseases that are difficult to study in hospitals. Professor Wesselingh commended this initiative in relation to the aims of Monash University to develop stronger research links with important external bodies such as the Australian Red Cross Blood Service.



**TORC launch August 2008.**

*Left to right:* Stuart Behncken (ARCBS), Dr Louise Phillips (DEPM), Professor Steve Wesselingh (Faculty Dean), Professor John McNeil (Head, SPHPM) and Robert Hetzel.

## Clinical Informatics and Data Management Centre (CIDMC)

The Clinical Informatics and Data Management Centre was established in August 2008 after integrating data-management operations of CCRC Therapeutics and the Pre-hospital Emergency and Trauma Unit. The Unit provides a complete range of data management services for DEPM and external clinical registries, clinical trials and cohort studies. Case report form and database design services are available, using paper, scan, fax, voice recognition, data linkage, desktop and web-based data capture methodologies. The Unit also provides a range of reporting services such as recruitment tracking, data query resolution and real-time web reporting. Data management services conform to good clinical research practice (GCRP) standards. Associate Professor Chris Reid is Director of the Clinical Informatics and Data Management Unit.

During 2008, Mr Andrew Hannaford led the technical team of five software developers and five data management staff.



# Research and education summary

## School of Public Health and Preventive Medicine, Monash University

Please note, this information is detailed and expanded in the associated CD/booklet in the relevant sections.

### Research

Research income: \$23 million

Year	2008
NHMRC research funding	\$9,509,114
Other research funding	\$9,001,834
Commercial income	\$4,568,601
Total:	\$23,079,549

Total number of research projects, scholarships and fellowships funded by grants in 2008:

Continuing: 168

Starting: 41

Peer reviewed articles (includes letters and editorials)	373
Reports	17
Book chapters	24
Books	3

### Education

Student enrolment

Undergraduate: 245 students were taught by SPHPM staff in the Bachelor of Biomedical Science and 1371 in years 1–4 of the MBBS (1129 in Australia, 242 in Malaysia).

Honours:

3

Postgraduate certificate, diploma and masters by coursework:

454

Short courses:

213

PhD:

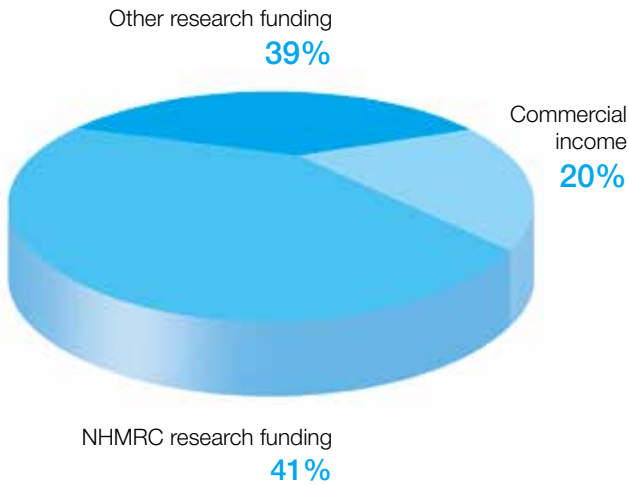
17 new

71 continuing

12 completed and graduated

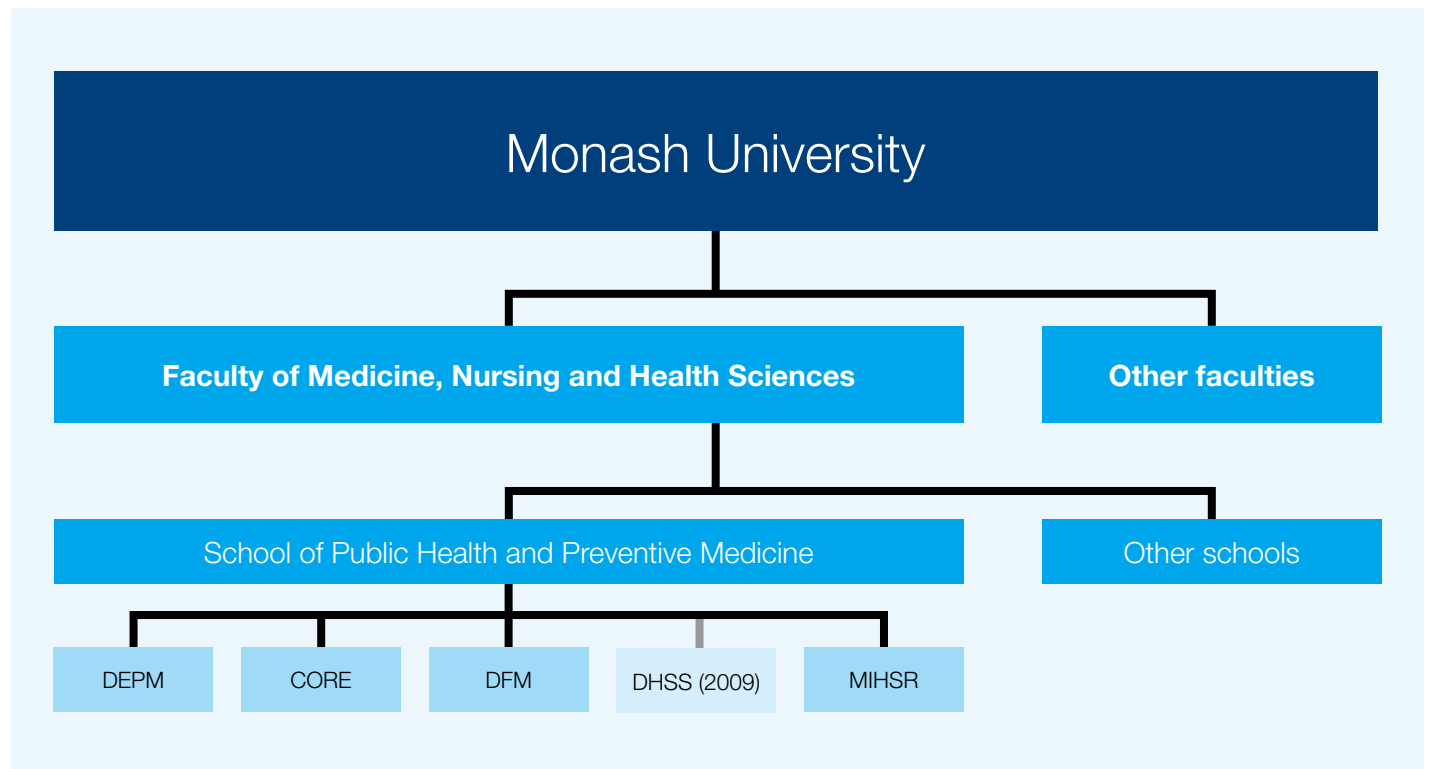
In the 2008 round of PhD scholarships, 15 students were awarded a total of 17 competitive scholarships.

2008 research income





# 2008 SPHPM organisational structure



**Department of Epidemiology and Preventive Medicine (DEPM)**  
Head of Department and Head of School, Professor John McNeil

[www.med.monash.edu.au/epidemiology](http://www.med.monash.edu.au/epidemiology)



**Centre for Obesity Research and Education (CORE)**  
Head, Professor Paul O'Brien

[www.core.monash.org](http://www.core.monash.org)



**Department of Forensic Medicine (DFM)**  
Head, Professor Stephen Cordner

[www.med.monash.edu.au/vifm](http://www.med.monash.edu.au/vifm)



**Department of Health Social Science (DHSS)** (from January 2009)  
Head, Professor Helen Keleher

[www.med.monash.edu.au/healthsci](http://www.med.monash.edu.au/healthsci)



**Monash Institute of Health Services Research (MIHSR)**  
Interim Director, Associate Professor Damien Jolley

[www.mihsr.monash.org](http://www.mihsr.monash.org)

# Research governance

*“Research governance is the framework by which institutions support, monitor and attest to the safety, ethical acceptability and quality of the research they undertake.”<sup>1</sup>*

*“The purpose of research governance is to ensure research integrity through accountability, transparency and responsibility. Good governance also seeks to ensure that research is carried out with the highest scientific and ethical standards, appropriate use of finances, and robust monitoring, review and evaluation processes.”<sup>2</sup>*

SPHPM has developed and implemented a research governance framework which is underpinned by four components:

- A risk management plan;
- Publication of departmental guidelines on responsible research conduct;
- Training and education of staff and students in responsible research conduct; and
- The appointment of a Research Governance Coordinator.

Mr Brad Crammond continued in the role of research governance coordinator during 2008. The research governance coordinator and the research governance committee provide researchers with resources, advice and assistance to ensure that research at the School continues to meet high standards of research conduct.

One of the key operational ‘governance tools’ adopted by SPHPM is a self-audit tool for SPHPM researchers to use. The areas covered by this self-audit are the research protocol, the participant information and consent forms, HREC approval, relevant study documentation, data management, data confidentiality procedures and overall study management. The audit process is promoted as an opportunity for researchers to reflect on and check their ‘work in progress’. The research governance coordinator also provides training and education to researchers about ethical research conduct. The Department regularly holds short courses in Clinical Research Practice and Ethics and all SHPHM students and new researchers are encouraged to attend.

## The research governance committee



Ms Marina Skiba (Chair)



Mr Brad Crammond



Dr Elizabeth Douglas



Associate Professor Damien Jolley



Mr Ewan Mac-Farlane (pictured) and Ms Rwth Stuckey are student representatives.

<sup>1</sup> WP Anderson, CD Cordner and KJ Breen (2006) *Strengthening Australia's framework for research oversight*. MJA 184 (6): 261–263 p262.

<sup>2</sup> SJ Poustie, D Taylor, AB Forbes, MA Skiba, MR Nelson and JJ McNeil (2006) *Implementing a research governance framework for clinical and public health research*. MJA 185: 623–626. This journal article provides details of DEPM's research governance framework.

# Awards, prizes and fellowships

Note: All PhD awards are listed in the PhD section.  
Throughout, bolded names are SPHPM staff.

**Dr Robyn Tapp** does research at the National Heart and Lung Institute, Imperial College London at St Mary's. Her team was awarded a prestigious grant by the British Heart Foundation (BHF) as part of a £6 million boost for heart research in the UK (March 12).

**Professor Michael Abramson** presented at the Annual Scientific Meeting of the Thoracic Society of Australia and New Zealand on 25 to 28 March. He and his co-authors' poster was awarded the TSANZ/Australian Lung Foundation Prize for the best presentation on primary care related issues. Co-authors were **Rosa Schattner**, Frank Thien, Nabil Sulaiman, Nory Del Colle and **Rosalie Aroni**.

Professor Lenore Manderson and colleagues **Professor Brian Oldenburg**, **Associate Professor Max de Courten**, Professor Vivian Lin and Dr Bruce Hollingsworth were awarded an NHMRC Strategic Award: Complementary and Alternative Medicine, valued at \$661,000 for their project 'Care-seeking, use of CAM, and self-management among people with type 2 diabetes and Cardiovascular Disease' in May. Thirteen awards were made Australia-wide and the Monash grant was the largest.

In May, **Dr Lisa Demos** was made Adjunct Professor in the School of Medicine at the University of Notre Dame Australia, Sydney.

**Dr Belinda Gabbe's** NHMRC-funded research, outcomes of major trauma and sports injuries (ID No 237024), was selected to feature in the next edition of the NHMRC's Ten of the Best (research projects). Quoting from the NHMRC letter: "This selection has been based on the merits of your end-of-grant final report. The NHMRC publication, produced for the last three years, highlights the outstanding Australian researchers who are dedicated to solving the mysteries of illness and improving the health of the population. It also demonstrates that investment in health and medical research generates significant returns for Australia in terms of improved health outcomes for the population and more efficient and effective healthcare."

**Professor John McNeil** was presented the Member of the Order of Australia medal by the Governor of Victoria, Professor David de Kretser, at the 8 May ceremony for presentations of Member of the Order of Australia (AM) medal.



Professor David de Kretser and Professor John McNeil at the presentations of Member of the Order of Australia (AM) medal.

**Dr Bronwyn Fredericks** is a NHMRC Research Fellow with the International Public Health Unit based in Brisbane at the Centre for Clinical Research Excellence for Circulatory Disease and Associated Conditions in Aboriginal and Torres Strait Islander populations.

Dr Fredericks has:

- accepted appointments in June to the editorial boards of the Australian Journal of Indigenous Issues published by Monash University and the soon to be launched International Journal of Critical Indigenous Studies. This new refereed journal has an international editorial board of Indigenous scholars who are drawn from across the world. She says, "I am honoured to be one of the few Indigenous Australian scholars invited to be part of the Board."
- been recognised for her contributions in the field of Aboriginal and Torres Strait Islander Studies by being offered full membership to the Australian Institute of Aboriginal and Torres Strait Islander Studies (AIATSIS).

**Professor Andrew Tonkin** was awarded:

- the prestigious John Loewenthal award from the National Heart Foundation at a dinner at University House, Melbourne University on Tuesday 20 May.
- the 2008 Research Australia Award for Excellence in Medical Media in Sydney, 24 September. This is awarded every two years. The judging panel were representatives of the health and medical journalists in the lay press, Sophie Scott from ABC and Julie Robotham, previously SMH and other papers.



**Associate Professor David Wells** was awarded the Order of Australia medal in the 2008 Queen's Birthday Honours, recognising his crucial role in forensic medicine education. Professor Wells is in the Department of Forensic Medicine and an honorary with DEPM. Professor Wells said receiving the Medal of the Order of Australia (OAM) was a great honour. "The work has been very much a team effort. I have been most fortunate to be part of an enthusiastic and talented group working at an organisation that has always supported our endeavours." See full the story at: [www.monash.edu.au/news/monashmemo/stories/20080611/queens-birthday-honours.html](http://www.monash.edu.au/news/monashmemo/stories/20080611/queens-birthday-honours.html)

**Miranda Davies**, PhD student and **Dr Fahad Hanna** won prizes in the Australian Rheumatology Association national conference, held in Adelaide from 17 to 21 May. Fahad won the best clinical poster and Miranda won the best presentation.

ABC Health Report story with **Paul Dietze** and **Deb Kerr** from MIHSR has been selected for the 'Best of ABC' picks for week beginning 13 October. For more details, visit: [www.abc.net.au/bestof](http://www.abc.net.au/bestof)

**Michael Bailey** and **Karin Leder** were promoted to Associate Professor.

**Deborah Glass** was invited to join the International Advisory Board of the Annals of Occupational Hygiene. This is a premier occupational hygiene journal.

**Professor Helena Teede** was awarded:

- The NHMRC Achievement Award 2008 for outstanding research work across NHMRC's grant and fellowship schemes following the outcome of the 2008 peer review process.
- The Annual scientific award, Southern Health.
- Williamson Fellow 2008.
- NH&MRC Career development award 2009–2012.



Together with collaborators from the Western Hospital, **Ms Debra Kerr**, a PhD student at MIHSR, and Associate Professors **Paul Dietze** and **Damien Jolley** were awarded the 'best paper' prize at the 2008 Australian College of Ambulance Professionals Conference for their work on intranasal naloxone for the treatment of heroin overdose. Associate Professors **Paul Dietze** and **Damien Jolley** were co-recipients of the Minister's Silver Award for the same work at the Victorian Public Health Care Awards, Innovation Awards, 2008.

**Dr Jo Wainer** was an invited and funded participant at the third International Congress of Gender Medicine, Stockholm 2008.

**Dr Wainer** and **Ms Anne-Maree Nobelius** were funded Faculty at the Gender in Medicine seminar in Achuta Menon Centre, Trivandrum, India in November 2008.

## Fellowships beginning in 2008

Associate Professor  
**Christopher Reid**  
SRF A, NHMRC  
Research Fellowship



Dr Sue Evans  
NHMRC Training  
Postgraduate Fellowship



In the NHMRC 2009 senior research fellowships/practitioner fellowships round, **Professor Peter Cameron** was awarded a practitioner fellowship level 2 (\$350,000 over five years). **Associate Professor Karin Jandeleit-Dahm** (honorary) and **Associate Professor Margaret Hellard** (honorary) were awarded research fellowships. Complete lists can be downloaded from: [www.nhmrc.gov.au/\\_files\\_nhmrc/file/grants/fellows/funded/outcomes/career/2009\\_research\\_fellowships.pdf](http://www.nhmrc.gov.au/_files_nhmrc/file/grants/fellows/funded/outcomes/career/2009_research_fellowships.pdf)

[www.nhmrc.gov.au/\\_files\\_nhmrc/file/grants/fellows/funded/outcomes/career/2009\\_practitioner\\_fellowships.pdf](http://www.nhmrc.gov.au/_files_nhmrc/file/grants/fellows/funded/outcomes/career/2009_practitioner_fellowships.pdf)



# Registries

SPHPM is a leader in developing a critical mass of expertise around the establishment, management and analysis of clinical registries. A number of trends in healthcare have led to an increased demand for the following specialist skills and data:

- Collection and management of large health related data sets within IT systems;
- provision of evidence of effectiveness and long term safety of medical and surgical interventions;
- Evidence of the effectiveness of preventive interventions is often dependent on data from large scale trials;
- Measuring and benchmarking quality of healthcare through data from disease and procedure registries; and
- Long-term surveillance programs for long-term hazards of medical and surgical.

SPHPM registries during 2008	
Australian Society of CardioThoracic Surgeons (ASCTS) Database	Australian Rheumatology Association Database (ARAD)
Atherothrombotic Effects Registry	Bosentan Patient Registry
Haemostasis Registry	Melbourne Interventional Group (MIG) Cardiology Registry
National Burns Registry	Neonatal Alloimmune Thrombocytopenia Registry
Surveillance of Australian Workplace Based Respiratory Events (SABRE)	Thrombotic Thrombocytopenic Purpura Registry
Victorian Cardiac Arrest Registry	Victorian Orthopaedic Trauma Registry
VSTORM – Monitoring and Evaluation of the Victorian State Trauma Registry	

## DEPM Clinical Informatics and Data Management Unit

The Clinical Informatics and Data Management Unit (CIDMU) was established within DEPM in August 2008 after integrating data management operations of CCRE Therapeutics and the Pre-hospital Emergency and Trauma Unit. During 2008, the CIDMU provided a range of data management services for SPHPM and external clinical registries, clinical trials and cohort studies (please see table overleaf for the complete list of projects).

These included:

- case report form design;
- database design;
- data capture systems – paper, scan, fax, electronic and web-based; and
- reporting systems – recruitment tracking, data query resolution and real-time web reporting. Data management services conform to GCRP standards.

## Staff

Director/Head	Information Systems Manager
Associate Professor Christopher Reid BA, Dip Ed, MSc, PhD	Mr Andrew Hannaford BEng, BSc(Hons), GradDiplIT
Software Developers	Research Assistants
Kunnapoj Pruksawongsin; MIT, BComp	Ms Pip Loane BBMedSci
Dr Colin Wood Senior Research Fellow	Ms Molly Bond BBIotech(Hons)
Mr Nino Hay BIS	Ms Fanny Sampurno BA, BSc(Hons)
Mr Waranon Buranasiri MIT, BAccnts	Ms Amy Finlay BHlthSci/BA
Mr Douglas Wong BAppSci	Ms Zahide Yildirim

Current Projects: Registries and Audits; Observational Studies; Clinical Trials; Cohort Studies.



(ARCBS) Steering committee. From left to right: John McNeil (DEPM), Erica Wood (ARCBS), Stuart Behncken (ARCBS), Louise Phillips (DEPM), Mark Polizzotto (ARCBS), Merrole Cole-Sinclair (Chair of Steering Committee from St Vincent's Hospital, Melbourne) and Nikita Schembri (DEPM).

### Monash/ARCBS Transfusion Outcomes Research Collaborative launch – 7 August 2008

The Monash/ARCBS Transfusion Outcomes Research Collaborative project was launched on 7 August by the Dean of Medicine, Professor Steve Wesselingh, Robert Hetzel (CEO, ARCBS) and Professor John McNeil, Head, School of Public Health and Preventive Medicine.

The collaboration is intended to improve our knowledge of how blood products are distributed and used in clinical medicine. Speakers at the launch were Dr Merrole Cole-Sinclair, Head of Haematology at St Vincent's Hospital, appointed as a chair of the Steering Committee for the collaboration. Other members of the Steering Committee include Drs Erica Wood, Mark Polizzotto and Stuart Behncken from ARCBS, and Professor John McNeil, Dr Louise Phillips and Ms Nikita Schembri from Monash.

One of the first projects will be to gather information about blood use together with outcome data from existing registries and consolidate this in a way that provides useful information. The aim is to study the outcomes of blood transfusion including appropriateness of transfusion and incidence and risk factors for some adverse outcomes of blood transfusion, in order to guide improvements in patient care.

The collaboration is establishing two of its own registries, the first of their kind in Australia. The registries will be based in the Department of Epidemiology and Preventive Medicine.

One of these registries will cover Neonatal Alloimmune Thrombocytopenia (NAIT), a condition that causes mild to serious haemorrhage in neonates and unborn babies due to low platelet count. This occurs where the mother has built up antibodies to the child's platelets which cross the placenta and attack the child's platelets. The other registry will cover Thrombotic Thrombocytopenic Purpura which is a condition causing red cell destruction, bleeding, stroke and kidney failure, due to the formation of blood clots throughout the circulation. This can be isolated or occurring with other serious illnesses.

The establishment of registries is an important strategy to improve knowledge regarding the treatment of rare diseases that are difficult to study in hospitals. Professor Wesselingh mentioned how well this initiative fits with the aims of Monash University to develop stronger research links with important external bodies such as the Australian Red Cross Blood Service.

Australia makes a major investment in blood and blood products. Ensuring the safest and most cost effective use of blood is an important priority for the Australian health system.

#### Contacts

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**Dr Erica Wood**

**ARCBS**

Telephone: 9694 0203

Email: [ewood@arcbs.redcross.org.au](mailto:ewood@arcbs.redcross.org.au)

Administering institution	Project	Clinical context	Sponsor	Start to end	Recruitment
Registries and audits					
DEPM	VSTORM	Trauma	TAC/DHS	2001 – ongoing	138 Victorian hospitals
	VOTOR	Orthopaedic Trauma	TAC/Commercial	2003 – ongoing	4 Victorian hospitals
	Haemostasis	Blood Products	NovoNordisk	2004 – ongoing	90 ANZ hospitals
	TTP	Blood Products	Red Cross	2008 – ongoing	13 Australian hospitals
	NAIT	Blood Products	Red Cross	2008 – ongoing	33 ANZ hospitals
	ASCTS	Cardiac Surgery	DHS	2002 – ongoing	10 Australian hospitals
	ARAD	Rheumatology	NHMRC	2006 – ongoing	159 rheumatologists
	MIG	Cardiovascular Disease	Commercial – various	2006 – ongoing	8 Victorian hospitals
	ANZBAR	Burns	ANZBA	2008 – ongoing	11 ANZ hospitals
	INTEGRATE	Cardiovascular Disease	Bristol Myers Squibb	2007 – ongoing	650 Victorian GPs
Burnet	Sentinel Surveillance	Infectious Diseases	DHS	2005 – ongoing	16 Victorian clinics
Monash – Epworth Rehabilitation Centre	All	Traumatic Brain Injury	TAC	2008 – ongoing	9 projects
Observational studies					
DEPM	ASAP	Intensive Care	Various	2008	55 International hospitals
	Blood Obs	Intensive Care	Red Cross	2008	49 ANZ hospitals
Clinical trials and observational studies					
DEPM	ASPREE	Cardiovascular Disease	NHMRC	2005 – ongoing	88 Australian GPs
	HOPE3	Cardiovascular Disease	National Heart Foundation	2008 – ongoing	150 International sites
	HOLLT	Trauma	DHS/NHMRC	2006 – ongoing	8 International hospitals
Alfred ICU	ENTERIC	Intensive Care	Various	2005 – ongoing	14 Victorian sites
Alfred ICU	STATINS	Intensive Care	NHMRC	2007 – ongoing	17 Australian hospitals
Alfred/NTRI	DECRA	Trauma	NHMRC/TAC	2005 – ongoing	30 Victorian hospitals
Cohort studies					
DEPM	Health Watch	OEH	Australian Institute of Petroleum	2005 – ongoing	147 Australian sites
	ANBP2	Cardiovascular Disease	GPs	2008 – ongoing	1199 GPs

SPHPM is an international hub for researchers, students and educators with its wide array of interdisciplinary subject areas and research platforms.

SPHPM has very strong and diverse exchanges and collaborative linkages with researchers, educators and students from many countries. These relationships and exchanges are particularly strong with many countries throughout Asia, that include, in particular, Sri Lanka, Malaysia, Thailand, India, Bangladesh and China. The School is also rapidly developing similar linkages and partnerships with countries in the Pacific and Africa as well. Researchers from the School have traditionally had very strong research collaborations with academic and research institutions in Europe and North America. The School also has relationships and partnerships with African countries, the United States and European countries.

**Professor Peter Jüni**, from Bern University, Switzerland, gave a seminar in DEPM on 20 May: 'Network meta-analyses: rationale, potential and pitfalls'. Professor Jüni heads the Division of Clinical Epidemiology and biostatistics and co-directs Bern University's Clinical Trials Unit.

**Professor Allan Collins**, the Director of the Chronic Disease Group, University of Minnesota, gave a seminar on 29 February: 'How to run a successful registry – lessons from USRDS'.

**Professor Rob Friedman**, from Boston University, USA, visited DEPM from 13 to 14 March. He is an expert on most contemporary aspects of health informatics, telehealth and telemedicine in USA and elsewhere.

## Hosted by ASPREE

The senior US co-investigator on the ASPREE study, Professor Richard Grimm, Adjunct Professor, EpiCH; Director, Berman Center for Outcomes and Clinical Research, Minneapolis Medical Research Foundation; Division of Clinical Epidemiology, Department of Medicine, Hennepin County Medical Center; and Professor, Department of Medicine, School of Medicine, University of Minnesota School of Public Health, and Dr Anne Murray, also from the University of Minnesota in Minneapolis and a co-investigator on the ASPREE study, visited from 17 to 18 March. The ASPREE study is an investigation of the therapeutic and adverse effects of aspirin in the elderly.

## Hosted by MonCOEH

The Monash Centre for Occupational and Environmental Health (MonCOEH) in early June, hosted a group of 21 visitors from Mahidol University in Bangkok, Thailand. This was part of a workshop program to build capacity in occupational disease prevention, funded by a grant from the Australia-Thailand Institute.

As part of this project, **Professor Malcolm Sim** of MonCOEH has also visited Bangkok this year to conduct a series of workshops for about 40 attendees. The Thai delegation to Monash was led by Associate Professors Orawan Kaewboonchoo, Pornpimol Kongtip and Pimpan Silpasuwan, and comprised of postgraduate trainees in occupational and environmental health from nursing, medical and occupational hygiene backgrounds.

The group participated in a diverse program during their one week visit with a variety of presentations and activities which aimed to help them gain a better understanding of programs to prevent occupational diseases, such as cancer, asthma, stress and musculoskeletal disorders. The program also included a series of round table discussions to compare occupational health approaches between the two countries. Several other Monash staff, past staff and ex-students contributed to the program.

The group spent an afternoon doing a worksite visit at Alcoa's Point Henry aluminium smelter and visited the Monash University Accident Research Centre (MUARC) to hear about their programmes on injury surveillance and prevention. One of the visitors, a neurologist from one of the Bangkok hospitals, presented a series of clinical case studies to highlight some of the serious occupational diseases occurring in Thailand.



Tony La Montagne leading a discussion group on asbestosis.



### Hosted by the CCRE Therapeutics

**Professor Salim Yusuf**, DPhil, FRCPC, FRSC, is the Professor of Medicine, McMaster University; Director, Population Health Research Institute, McMaster University, Hamilton Health Sciences, Canada; Vice President Research and Chief Scientific Officer, Hamilton Health Sciences; Heart and Stroke Foundation Endowed Chair in Cardiovascular Research. He gave a departmental seminar on 30 July, at which he spoke about 'Eliminating CVD by 2025'. He is working with John Varigos on the ACTIVE, INTERSTROKE, and INTERHEART 2, Chris Reid and John Varigos on the HOPE-3 study and with the SPHPM Clinical Trial Centre at Caulfield on the ONTARGET and TRANSCEND studies.



*From left to right: Associate Professor Chris Reid, Professor Salim Yusuf, Professor John McNeil, a PhD student and Hendrik Zimmet.*

**Dr Marcus Flather** is Director, Clinical Trials and Evaluation Unit (CTEU), The Royal Brompton Hospital, London, UK; Honorary Consultant Cardiologist; Honorary Senior Lecturer, The National Heart and Lung Institute of Imperial College. He spoke at CSL HF Symposium on 'New Insights into the Role of  $\beta$ -blockers for Heart Failure'. He, with Professor Henry Krum, is co-supervising Dipak Kotecha's PhD.

### Hosted by the Biostatistics Unit

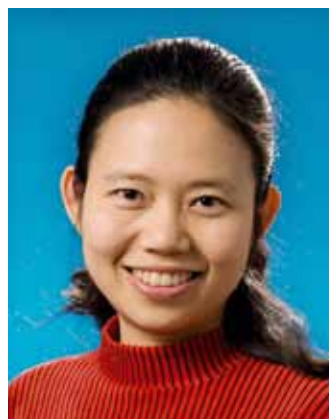
**Associate Professors Miguel Hernan and Sonia Hernandez-Diaz** in the Department of Epidemiology at the Harvard School of Public Health, USA visited DEPM on Thursday 3 July when Miguel presented a seminar.



*From left to right: Associate Professor Miguel Hernan, DEPM host Associate Professor Andrew Forbes and Associate Professor Sonia Hernandez-Diaz.*

### Hosted by the Clinical Pharmacology Unit

**Drs Pornwalee and Pramote Porapakkham** from Thailand visited from November 2008 – September 2009. They worked with Henry Krum, on, amongst other projects, a clinical trial using the Fibroscan ultrasound technique for measuring 'waves' in the liver as an indication of liver scarring due to illness and alcohol use.



Dr Pornwalee Porapakkham



Dr Pramote Porapakkham

### Hosted by Associate Professor Max de Courten

**Dr Jagath Amarasekera** (pictured right) and **Dr Yaxu Zhang** are Visiting Academics with Max de Courten. Jagath is visiting October 2008 to October 2009 in DEPM. He is based in the Central Epidemiology Unit at the Sri Lankan Ministry of Health. The Unit employs about 100 staff, of which about 25 are doctors. As part of their Community Medicine training they do a one year rotation in a developed country. Jagath will be working on several chronic disease prevention programs while here in Australia.



**Dr Yaxu (Dorcus) Zhang** (China) visited from November 2007 to November 2008. Dr Zhang is an epidemiologist based at the Nan Gang Centre for Disease Control (CDC) at Harbin, in Heilongjiang Province, North East China. At the CDC, Dr Zhang heads the Chronic Disease Prevention and Control Division and the Quality Control Division. She has 17 years experience in chronic disease epidemiology. Her research interests include intervention methods in the community to prevent atherosclerosis.

### Hosted by the Centre of Research Excellence in Patient Safety (CREPS)

**Professor Sidney Dekker**, (December 2007 – January 2008).

Professor Dekker is Professor in Human Factors and System Safety and Director of Research at the Lund University School of Aviation (LUSA), Sweden. His specialities and research interests are human error, system safety, human factors of new technology, constructions of risk, reactions to failure and criminalisation, and organisational resilience.

**Dr Liyun (Fanny) Feng** was hosted by the Biostatistics Unit from July 2007 to July 2008. Dr Feng is from the College of Public Health, Zhengzhou University, China.

### Hosted by VIFM

The Indo-Pacific Association of Law, Medicine and Science (INPALMS) scholarship, developed in conjunction with VIFM is awarded to a student from a developing country wishing to undertake postgraduate studies in forensic medicine. The awardee in 2008 was **Dr Hossein Sanei-Zadeh** from Iran. VIFM also welcomed **Dr Uwom Okereke Eze** from Nigeria who is being sponsored by his government to undertake the Masters program.

### Hosted by the International Public Health Unit

**Professor Richard Southby** – Executive Emeritus Dean and Distinguished Professor of Global Health at The George Washington University Medical Center gave a seminar Tuesday 26 February 2008: 'Health Care Reform: Looking Back to Go Forward'.

**Professor Allan Best** – Centre for Clinical Epidemiology and Evaluation Vancouver Coastal Health Research Institute, Canada, gave a seminar Monday 31 March, 2008, 'Systems Thinking for Improving Health: Understanding both Process and Outcome'.

**Professor C Barr Taylor** – Psychiatry and Behavioural Sciences at Stanford Medical Center USA, Director of the Adult Psychiatry Residency Training Program, and Director of the Laboratory for the Study of Behavioural Medicine gave a seminar Friday 29 February 2008: 'What do we REALLY know about the relationship between depression and cardiovascular disease: Implications for clinical practice and research?'

**Professor Robert Friedman** – Professor of Medicine and Public Health at Boston University and Boston Medical Center in the USA presented at a Melbourne Public Forum Friday 14 March, 2008: 'Telehealth interventions for the prevention and management of heart disease, diabetes and other chronic diseases'.

**Professor Guy Parcel** (pictured below) – Dean and Professor of behavioral sciences and pediatrics and John P McGovern Professor in Health Promotion at the University of Texas Health Science Center at Houston, School of Public Health, visited from 25 October to 19 November 2008. During this time, he presented an intensive short course from 29 to 31 October: 'Intervention Mapping (IM): Developing theory and evidence-based programs for health promotion and public health'.



**Dr Peter Salama** – Chief of Health at UNICEF, visited DEPM on 24 November. His visit was sponsored by the International Public Health Unit, DEPM. He gave the MNHS Dean's Lecture on 27 November.

**Mr Risintha Premaratne**, Research Assistant, from the Central Epidemiology Unit of the Sri Lankan government, finished at DEPM in November. He was working with Dr Nadine Ezard, of MIGHI, and will continue to collaborate with SPHPM academics.

# Seminars

The SPHPM seminar series in 2008 featured local, national and internationally based researchers. The program was organised by **Dr Anita Wluka**, Musculoskeletal Unit, DEPM.

**16 April:** 'How to make the most of existing cohorts in your research'. Dr Shyamali Dharmage, Senior Research Fellow (NHMRC) at University of Melbourne (pictured right).



**18 April:** 'Equity, Values and Public Health'.

Professor Pascale Allotey, Chair in Race and Diversity in Public Health and Professor Daniel Reidpath, Chair in Public Health, both of Brunel University, London.

**28 April:** 'Research update from the Coronel Institute of Occupational Health/Research Centre for Insurance Medicine/Pathways to work program'. Dr Jan Hoving, Senior Research Fellow with the Coronel Institute for Occupational and Environmental Health at Amsterdam University. Jan was with MonCOEH from 2001–2005.

**8 May:** 'Once is enough! Streamlining ethical review at Monash'.

Dr Simon Barrett, Manager, Research Ethics and Compliance, Monash University.

**14 May:** 'Water recycling and health issues'. Dr Karin Leder, Head, Infectious Disease Epidemiology Unit (IDEU), DEPM and Ms Joanne O'Toole, PhD student, IDEU.

**20 May:** 'Network meta-analyses: rationale, potential and pitfalls'. Professor Peter Juni, Head, Division of Clinical Epidemiology and Biostatistics, Bern University Switzerland and co-director of CTU Bern, the clinical trials unit of Bern University Hospital and the Faculty of Medicine of the University of Bern.

**3 July:** 'Observational studies analysed like random experiments: the case of postmenopausal hormone therapy and heart disease'. Associate Professor Miguel Hernan, Associate Director of the Program on Causal Inference in Epidemiology and Allied Sciences in the School of Public Health, Harvard University.

**30 July:** 'Toward a global solution for cardiovascular disease (CVD) — Can we prevent the majority of premature CVD in the next 25 years?' Professor Salim Yusuf, Faculty of Health Sciences, McMaster University, Hamilton, Ontario, Canada.

**13 August:** 'Focus on CVD prevention – CCRE Therapeutics Research Initiatives 2008'. Associate Professor Chris Reid, CCRE Therapeutics, DEPM.

**20 August:** 'Biogrid – what is it and what can it do for you?' Dr Marianne Hibbert, BioGrid Australia Project Director, Melbourne Health.

**27 August:** 'Pre-hospital, emergency and trauma care – can research change outcomes?' Professor Peter Cameron, Head, Prehospital, Emergency and Trauma, DEPM; Academic Director of the Emergency and Trauma Centre, The Alfred Hospital; Head of the Victorian State Trauma Registry and Associate Director of the National Trauma Research Institute (pictured below).



**3 September:** 'Epidemiological research in multiple sclerosis (MS): The Tasmanian MS longitudinal study, the Ausimmune study and related investigations'. Professor Anne-Louise Ponsonby, Head, Environmental and Genetic Epidemiology Research Group, Murdoch Children's Research Institute.

[www.med.monash.edu.au/epidemiology/events](http://www.med.monash.edu.au/epidemiology/events)



**10 September:** 'Open-source software infrastructure for Public Health'. Dr Ross Lazarus is an Australian trained physician, epidemiologist and computer scientist, currently based at Harvard, where he leads a medical informatics and bioinformatics research group, supported by NIH and CDC grants.

**8 October:** 'Predicting the requirements of coronary artery revascularisation procedures in WA using a linked database'. Dr Haider Mannan, Epidemiological Modelling Unit, DEPM.

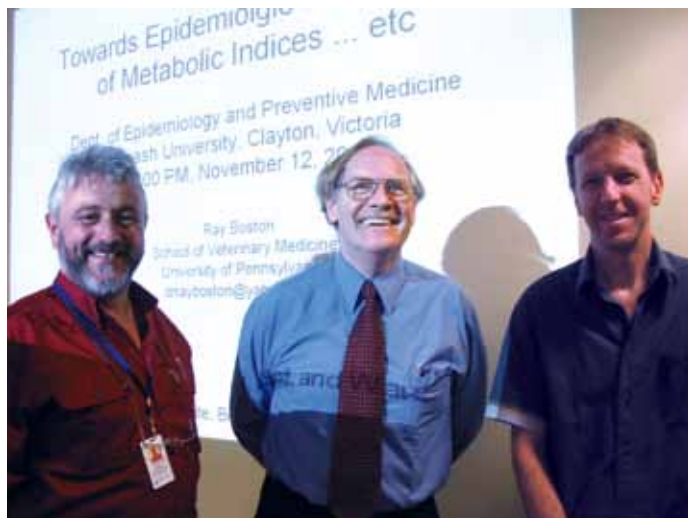
**29 October:** 'Exploring the paradox of adolescent health'. Professor George Patton, NHMRC Senior Principal Research Fellow at the Centre for Adolescent Health, University of Melbourne. (pictured below).



**5 November:** 'Critical care nutrition research: a programmatic approach to research'. Dr Daren Heyland, Professor of Medicine and Epidemiology at Queen's University, Kingston, Ontario Canada (pictured below).



**12 November:** 'Towards epidemiologic quantitation of metabolic indices'. Professor Ray Boston, Senior Scholar, Center for Clinical Epidemiology and Biostatistics (CCEB), School of Medicine, University of Pennsylvania, USA (pictured below).



**14 November:** 'Why Schools of Public Health matter'. Professor Guy Parcel, Dean, School of Public Health, University of Texas (Houston USA). Keynote lecture, chaired by Professor Brian Oldenburg.

**3 December:** 'How the ARC system works: a guide for clinical researchers'. Professor Marcello Rosa, Department of Physiology is a current member of the ARC College of Experts and sits on the Biological Sciences and Biotechnology panel. He has been successful in obtaining funding from both the ARC and NHMRC. Professor Rosa spoke about his observations as a member of the ARC College and NHMRC grant review panels, and his experience as an applicant writing proposals for both funding bodies.



# Short courses

## CORE

The Centre for Obesity Research and Education ran a number of basic and advanced laparoscopic gastric adjustable (lap-banding) courses for surgeons during 2008. These short courses are directed by Professor Paul O'Brien, CORE Director, and Associate Professor Wendy Brown. They provide skills for surgical intervention to reduce food intake to the patient's stomach, thereby enabling substantial and permanent weight loss.

## MIHSR

Centre for Clinical Effectiveness in the Monash Institute of Health Services Research offered six short courses:

- Allen K. 'Evidence-based Practice for Busy Clinicians'. Paediatric Registrars and HMOs, Southern Health. Melbourne, Victoria. January 2008.
- Allen K. 'Introduction to the Most Significant Change Technique'. Victorian Public Health Training Scheme Fellows. Melbourne, Victoria. February 2008.
- Harris C. 'Moving beyond EBP: Evidence-based decision-making for effective and sustainable change'. Victorian Training Program in Community Child Health. Centre for Community Child Health. Melbourne, Victoria. August 2008.
- Harris C. 'Developing Evidence-Based Guidelines in the Health Service Setting – is the juice worth the squeeze?'. Including differences between evidence-based and evidence-informed guidelines. Health Care for Kids Conference. Co-convened by The Association for the Wellbeing of Children in Healthcare and Children's Hospitals Australasia. Sydney, Australia. November 2008.
- Turner T. 'Post-hospital care question generation'. Victorian Neurotrauma Initiative Global Evidence Mapping Project. Melbourne, Victoria. May 2008.
- Turner T. 'Question generation workshops focusing on the issues relevant to acute inpatient treatment of traumatic brain injury'. Victorian Neurotrauma Initiative Global Evidence Mapping Project. Melbourne, Victoria. September 2008.
- Turner T. 'Question generation workshops focusing on the issues relevant to acute inpatient treatment of spinal cord injury'. Victorian Neurotrauma Initiative Global Evidence Mapping Project. Melbourne, Victoria. September 2008.

## DEPM

Dr Elizabeth Douglas coordinated the DEPM Short Courses (SC) during 2008. The DEPM SC policy is to share profits with participating units exclusively for the purpose of supporting PhD students and early career researchers who wish to attend conferences.

In 2008, 19 SCs were run, in which there were a total of 213 enrolments. The 2008 Spring School ran seven courses.

## Short courses in 2008

- Billah, B. Biostatistics for Clinical and Public Health Researchers (Three courses)
- Wolfe, R. Introduction to Stata (Two courses)
- Crammond, B. Ethics and Good Research Practice (Two courses)
- Zion, D. Research with Vulnerable Populations
- Newman, D. Australian Certificate of Civil Aviation Medicine
- Gabbe, B. Injury Epidemiology
- Leder, K. Infectious Diseases Epidemiology
- Parcel, G. Intervention Mapping

## 2008 Monash Spring School for Public Health and Preventive Medicine

- Stevenson, C. Chronic Disease Modelling
- Billah, B. Biostatistics
- Hannaford, A. Data Management and Computing
- Crammond, B. Ethics and Good Research Practice
- Priestly, B. Environmental Risk Assessment
- Cumpston, M. Systematic Reviews
- de Courten, M. Work Health Promotion

## Collaborations

Current collaborations are in place with the RACGP and Australian and New Zealand nursing associations and various courses have CME/CNE accreditation. More are planned with other external organisations to cater for their professional education needs and to broaden participation.

[www.med.monash.edu.au/epidemiology/shortcrs/index.html](http://www.med.monash.edu.au/epidemiology/shortcrs/index.html)



Workhealth short course group with presenter Associate Professor Max de Courten (centre, fifth from left).



Intervention mapping short course with Professor Guy Parcel.

# Teaching

## Undergraduate

SPHPM Departments DEPM, DoFM and MIHSR contribute to the undergraduate medical degrees which are administered centrally by the Faculty of Medicine, Nursing and Health Sciences at Clayton. These are the Bachelor of Medicine and Surgery (MBBS) and Bachelor of Biomedical Science courses.

### MBBS

Student contact is substantial in the MBBS. During 2008, in Years one to four of the MBBS, a total of 1371 students were taught (Australian campus: 1129; Malaysian campus: 242).

### Theme II: Population, society, health and illness

DEPM shares overall responsibility for Theme II: Population, society, health and illness, which comprises 15 per cent of the undergraduate medical curriculum with staff from the Monash Institute of Health Services Research, Department of General Practice and Centre for Health Economics. Theme II provides the structure to develop students' abilities to deal with broader society and population issues. We teach population health in first year, health promotion in second year, evidence-based clinical practice, occupational and environmental medicine in third year and health services management in fourth year.

Because the students are spread all over Victoria in Year 4, most of the teaching is conducted via the internet (Monash University Studies Online/Blackboard). Fifth year is seen primarily as a preparation for internship, but students do have the opportunity to take a public health rotation and international electives.

Members of DEPM have also been involved in planning Theme II content for the new graduate medical school in Gippsland and training teachers at the Monash Medical School in Malaysia.

### Medical law tutorial program

The Department of Forensic Medicine (DoFM) has delivered the medical law tutorial program as part of the undergraduate medical curriculum of the MBBS course since 2001.

Associate Professor Leanna Darvall, in a position jointly funded by Avant and the Medical Indemnity Protection Society (MIPS), coordinates over 70 medical lawyers and clinicians to provide small group tutorials for students in years one, three and four of the MBBS course. The program takes a collaborative approach; including having year-three tutorials delivered jointly by lawyers and clinicians at metropolitan and regional hospitals and is the most comprehensive of its kind in any medical school in Australia. In 2008, more than 800 students were provided with Medical Law Tutorials through this program.

The Medical Law Tutorial Program has also been taken offshore, with Monash Malaysia providing years-one, -three and -four medical-law tutorials involving discussion of relevant Malaysian law.

Monash University offered a graduate-entry medical degree for the first time in 2008. The medical law component of this Gippsland based program is also coordinated and delivered by Associate Professor Darvall and the department by way of a multi-disciplinary seminar series for each year of the graduate-entry program.



Alfred ICU nurse, Brittany Walsh, collaborating with the ANZIC-RC group.



## Evidence-Based Clinical Practice Education Service

The Evidence-Based Clinical Practice (EBCP) Education Service is a division of the Specialist Academic Services provided by the Monash Institute of Health Services Research. The EBCP Education Service, along with the Health Sociology and Biostatistics units, forms the Population Health, Society and Illness theme teaching of the Monash University MBBS degree.

The EBCP Education Service is coordinated by Dr Dragan Ilic and delivered to Monash University MBBS students in the third and fourth years of the undergraduate course, and to students undertaking the graduate course based at the Gippsland Medical School. The EBCP unit is delivered across the Southern Clinical School, Central and Eastern Clinical School, School of Rural Health, Gippsland Medical School and Monash University Malaysia. The unit aims to equip students with the skills to identify, appraise and integrate the best available evidence to their clinical training and practice. Undergraduate Teaching: The EBCP Education Service delivers the EBCP program into the Monash University MBBS degree.

In 2008, the EBCP course was successfully delivered to over 270 third-year MBBS students across six metropolitan and five rural clinical sites in Victoria. The course was also successfully delivered to over 40 third-year MBBS students in Monash University Malaysia. Much of this success can be attributed to the links with local staff based in Johor Bharu, including Dr Paul Fullerton and Dr Nor'azim bin Mohd Yunus. The EBCP program was also exclusively delivered as online teaching to over 260 fourth-year MBBS students based in Australia and Malaysia. This year marked the first time that both locally based Australian students were able to participate in online learning activities with their Malaysian based colleagues. In 2009, the EBCP program will be implemented and delivered for the first time to graduate students undertaking the MBBS degree at the Gippsland Medical School.

## Gender and Medicine Research Unit teaching: health, knowledge and society

The Gender and Medicine Research Unit within MIHSR teach in the MBBS Year 1 Health Promotion, MBBS Year 2 Gender and Medicine Seminary, MBBS Year 2 International Health unit.

## BBiomedSc

DEPM staff also teach some units in the Bachelor of Biomedical Sciences course:

- Biomedical sciences and society.
- Health policy and Management Biomedical science. On graduation, students can choose from a variety of careers, so we aim to stimulate their interest in population health. They learn how health is maintained and illness controlled at local, regional and national levels.

## Honours program

We welcome enquiries from students considering honours. Enquiries to Dr Anna Peeters on: (03) 9903 0177 or email: [anna.peeters@med.monash.edu.au](mailto:anna.peeters@med.monash.edu.au)

The BMedSci and BBiomedSci(Hons) program is varied. The BMedSci is a research year within the undergraduate medical course. The BBiomedSci honours year is open to BBiomedSci graduates with sufficient grades from the BBiomedSci course. Honours and BMedSci students through the Department of Epidemiology and Preventive Medicine participate in classes in epidemiology and biostatistics, the cornerstones of medical research. They also complete research supervised by researchers within the department and become proficient in presenting their results at departmental seminars.

Honours projects available to students in 2008 included:

- Biostatistical methods in epidemiological research;
- Cardiovascular disease epidemiology;
- Clinical pharmacology;
- Diabetes epidemiology;
- Environmental health;
- Infectious disease epidemiology;
- Musculoskeletal;
- Occupational health;
- Pharmacoepidemiology;
- Preventive medicine;
- Rheumatology; and
- Risk assessment.



DEPM Honours and BMedSci students in 2008: from left to right: Anna Kourbasis, Ryan Hiller and Stephanie Tanamas.



## Teaching – postgraduate

Within SPHPM, DEPM and DoFM offer postgraduate programs according to their specialities, respectively, population or public health and forensic medicine. MIHSR staff contribute to other graduate programs.

- DEPM postgraduate programs
- DoFM Forensic Medicine and Nursing programs
- MIHSR contributions to faculty postgraduate programs

DEPM's postgraduate program is extensive, offering the following streams in articulated awards of Graduate Certificate, Graduate Diploma and Masters:

- Public Health;
- Biostatistics;
- Clinical Epidemiology/Clinical Research Methods;
- Health Services Management;
- International Health; and
- Occupational and Environmental Health.

During 2008, DEPM's postgraduate courses had nearly 400 students enrolled from a range of medical and allied health backgrounds including nursing, medical, physiotherapy, pharmacy and health management.

One hundred and eighty-two of these were studying the MPH. Ninety-six students completed their course in 2008.



Dr Susan Shortreed, Biostatistics Unit.

Enrolments	
Course title	Student enrolments 2008
MPH Total	182
Biostatistics Total	25
Clinical Epi/CRM Total	27
Health Services Mgmnt Total	97
International Health Total	34
MOccEnvHlth Total	33
<b>Total</b>	<b>399</b>

## Master of Public Health (MPH)

**Course coordinator – Professor Flavia Cicuttini**

The MPH provides students with the full range of quantitative, analytical and communication skills necessary to work in public health. It is taught by the Victorian Consortium for Public Health, a partnership of four Victorian universities: Deakin, LaTrobe, Melbourne and Monash Universities. The responsibility for coordinating the MPH is rotated through the consortium. In 2008, DEPM at Monash University took on the responsibility. Ms Fay Haslam was initially appointed as MPH coordinator and succeeded during the year by Ms Joy Markwell.

Through the Victorian Consortium for Public Health, we offer specialisation streams for students enrolled through Monash in this course in clinical epidemiology, health economics, health services management, international health, occupational health and environmental health.

The MPH is studied in two parts. In part one, students from the four member universities study together, and in 2008, the core units were:

- epidemiology and demography;
- introductory statistics; and
- research methods/field methods for international health planning and evaluation in part two of the MPH, students study with their university of enrolment and choose a specialist stream.

## Biostatistics

**Course coordinator – Professor Andrew Forbes**

The Graduate Certificate and Graduate Diploma in Biostatistics give a broad range of biostatistical theory and techniques designed for health professionals.

The Master of Biostatistics develops the technical skills needed to commence a professional career as a biostatistician.

Off-campus, part-time.



*From left to right: Dr Susan Shortreed, PhD student Fahad Hanna, PhD coordinator Kaylene Hanlon and Professor Andrew Forbes, Head, Biostatistics Unit.*

## Clinical Epidemiology/Clinical Research Methods

**Course coordinator – Associate Professor Max deCourten**

The Graduate Certificate in Clinical Research Methods is an off-campus course with some block requirements. This degree guides students through the many stages required for undertaking research.

The Graduate Diploma in Clinical Research Methods assists clinicians or public health professionals to become familiar with clinical research methodology and can lead to the Master of Clinical Epidemiology or Master of Public Health.

**Course coordinator – Professor Michael Abramson**

Master of Clinical Epidemiology is offered off-campus or on-campus, part-time or full-time. Assists health professionals to make rational evidence-based decisions in clinical practice and undertake small clinical research projects.

## Health Services Management

**Course coordinator – Professor Just Stoelwinder**

The Graduate Certificate, Graduate Diploma and Masters in Health Services Management are off-campus, part-time or full-time courses. The Masters degree caters for medical or general hospital administrators, clinicians, quality assurance managers, team leaders, senior nursing administrators, unit managers and case managers within the healthcare system.

## International Health

**Course coordinator – Associate Professor Bebe Loff**

The Graduate Diploma in International Health and Master of International Health are offered in collaboration with the Centre for International Health at the Burnet Institute for Medical Research and Public Health, and provide the skills to design, implement and evaluate the relevant programs that address the major public health priorities of communities in developing countries.

The Graduate Certificate and Masters in International Research Bioethics deal in ethical issues that arise in healthcare settings, in vulnerable populations and in international settings. Particular emphasis is given to ethical issues associated with research in developing countries in the Asia-Pacific region.

## Occupational and Environmental Health

### Course coordinator – Professor Malcolm Sim

The Graduate Certificate in Occupational Health, Graduate Diploma and Masters in Occupational and Environmental Health are off-campus, part or full-time courses offered by the Monash Centre for Occupational and Environmental Health (MonCOEH) at DEPM.

We gratefully acknowledge staff of the Centre for International Health, Burnet Institute, for their substantial contribution to our teaching programmes.

For further detail on the above postgraduate courses, see:  
[www.med.monash.edu.au/epidemiology/pgrad/guide](http://www.med.monash.edu.au/epidemiology/pgrad/guide)

## Forensic medicine and nursing

The Department of Forensic Medicine offers postgraduate courses in forensic medicine and forensic nursing. It is now 10 years since the postgraduate program in forensic medicine was developed and the program continues to attract national and international students.

In 2008, there were 55 students enrolled in the Graduate Certificate, Diploma or Master of Forensic Medicine. This included students from all Australian states and territories as well as from New Zealand, Norway, Nigeria, Iran and the USA. The course is offered via distance education with seminars offered twice per year at the Victorian Institute of Forensic Medicine. The Department also welcomed Dr Uwom Okereke Eze from Nigeria who was sponsored by his government to undertake the Masters program.

Student feedback about these teaching programs was universally positive. In 2008, each of the units taught were judged by students to be in the top 25 per cent of units offered through the Faculty of Medicine, Nursing and Health Sciences at Monash University.



## Forensic Nursing

The Forensic Nurse Examiner role is being established in Victoria and as part of this role, nurses complete a one-year post graduate course, the Graduate Certificate of Nursing (Forensic) through the Department of Forensic Medicine. The four units of study that make up the qualification are of equivalent standard as those completed by doctors in the forensic medicine course. This ensures that the standard of practice and care is consistent by forensic doctor and nurse examiners.

In its third year, the Graduate Certificate of Nursing (Forensic) attracted much interest from nurses across Australia as well as some International enquiries. Fifty-six students have now completed the course since the first enrolments were accepted in 2006.

The course includes a workshop each semester to provide more intensive and interactive education as well as networking opportunities. An additional clinical component provides nurses with direct observational as well as supervised practice, prior to commencing independent work.

## Health Informatics Education stream within the Master of Health Sciences

The Health Informatics postgraduate program, taught by MIHSR staff, is now incorporated into the faculty-based Master of Health Sciences. Students may elect to undertake a specialisation in health informatics, completing either a Graduate Certificate, Graduate Diploma or Master of Health Sciences (Health Informatics).

Health informatics units available include CPE7601 Healthcare Information Systems, CPE7602 Developing Healthcare Information Systems, CPE7603 Contemporary Issues in Health Informatics, CPE7604 Health Information Systems Management, CPE7605 Electronic Health Record and CPE7606 Project Management for Health Professionals. Students completing the full Masters course may also undertake a research project in a health informatics area. For those students that do not qualify for the Masters program, three of the units are available as stand-alone professional development courses – Contemporary Issues in Health Informatics, Electronic Health Record, and Project Management for Health Professionals.

## Graduate Certificate of Health Professional Education

The Gender and Medicine Research Unit within MIHSR run a workshop 'Gender and Medicine' as part of the Graduate Certificate of Health Professional Education administered by the Centre for Medical and Health Sciences Education.

# SPHPM Doctoral program

Our doctoral program has trained many health professionals for senior careers in public health. The program has continued to grow and attracts students from around Australia and globally.



**DEPM PhD students.** Seated left to right: Zanfina Ademi, Liz Moore, Megan Bohensky and Louisa Lam; standing left to right: Adrienne O'Neil, Helen Walls, Judy Gold, Alisa Pedrana, Bridget Pratt and Lal Rawal.

In 2008, we had 17 new doctoral students enrolled, and 71 continuing PhD students. Twelve submitted and passed during the year.

The students are from many backgrounds, including microbiology, pharmacy, physiotherapy, public health, medicine, radiography, science, psychology and nursing. The progress of students in the department is facilitated by a strong research environment, with an extensive program of NHMRC funded research, access to extensive infrastructure support including assistance in biostatistics, data management, computing and support from experienced staff and a large student body. We also have a Good Research Governance Coordinator who works with each doctoral student on the development of protocols and the following of strict research guidelines.

[www.med.monash.edu.au/epidemiology/phd](http://www.med.monash.edu.au/epidemiology/phd)

## PhD program coordinators in 2008

**Associate Professor Rory Wolfe**

[rory.wolfe@med.monash.edu.au](mailto:rory.wolfe@med.monash.edu.au)

Assisted by:

**Dr Robyn Tapp**

[robyn.tapp@med.monash.edu.au](mailto:robyn.tapp@med.monash.edu.au)

Doctoral program administrator

**Kaylene Hanlon**

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## Scholarships

In the 2008 round of PhD scholarships, 15 students were awarded a total of 17 competitive scholarships:

NHMRC: Dev Mitra (Biomedical), Judy Lowthian (Public health) and Lisa Higgins (public health).

National Heart Foundation: Adrienne O'Neil and Lavinia Tran.

Australian Postgraduate Award: Bridget Pratt (also a Faculty Excellence PG award), Brad Crammond, Susan Jacups, Walter Shen, Elizabeth Moore, Stephanie Tanamas

Monash Graduate Scholarship: Alisa Pedrana, Megan Bohensky, Conor Deasy, Eva Saar (also a Monash International Postgraduate Research Scholarship (MIPRS)).

Baker Research and Training Executive Committee.  
Bright Sparks scholarship to Geraldine Lee. Awarded March 2008.

## Awards, prizes, bursaries, travel grants during 2008

### Judy Gold

- Received an Australian Postgraduate Award and the Faculty of Medicine Excellence Award in January 2008; and
- In September 2008, obtained the Burnet Institute Public Health Travel Award, which provides \$3500 to attend an overseas conference.

**Rebecca Guy** and **Peter Higgs**, both DEPM PhD students based at the Burnet Institute who submitted their theses in early 2008, were offered NHMRC Postdoctoral Fellowships.

**Miranda Davies** was awarded the best clinical presentation at the Australian Rheumatology Association conference in Adelaide, 17 to 21 May.

**Dr Alistair Nichol** (ANZIC-RC) received the Faculty of Medicine, Nursing and Health Sciences, Monash University Travel Award to support his attendance and the presentation of his PhD thesis research program entitled 'Hypercapnia in sepsis' at the American Thoracic Society meeting in Toronto in May 2008.

**Jo O'Toole** and **Basia Diug** both won an 'Award for Outstanding Contribution' to the 2008 Higher Degree by Research Student Poster exhibition as part of the Research Matters month at Monash on 19 August. Jo's poster was 'Recycled water guidelines: Do they hold up in the wash?' Basia's poster was 'Challenges in recruiting community-based elderly' (Diug B, Lowthian J, Evans S). Ten posters out of a total of 176 won this award.



### Helen Walls (pictured above)

- Was awarded 'Top Ranked Scholar in Victoria, 2008'; presented at the National Heart Foundation Victoria's Award Ceremony, 12 March;
- Was awarded a National Heart Foundation travel grant to attend the European Congress on Obesity 2008 in Geneva, May; and
- the 1<sup>st</sup> Expert Meeting of the DYNAMO-HIA Project in Rotterdam, and visit Erasmus University and the Netherlands Interdisciplinary Demographic Institute.

### Margaret Stebbing

- Awarded a part scholarship (registration) by the Public Health Association of Australia to attend the Australian Public Health Congress in Brisbane in July 2008. Margaret presented a poster titled 'Exploring the environmental health risk beliefs of Australians: underlying structure and demographic features' and a paper entitled 'Cancer clusters in the News: risk perception, risk communication and the media'. She was an invited panelist in the breakfast session Cancer Cluster Investigations;
- Received an APA from March 2005 to September 2008; and
- Awarded a faculty travel grant to visit Helsinki for the ISSEI August 2008 annual conference. She gave a paper, 'Social Amplification of Risk: news media and the emergence of a 'cancer cluster' narrative in Australia, within a round table workshop: Communicating Scientific Risk through the Mass Media: Theoretical and Empirical Explorations.'

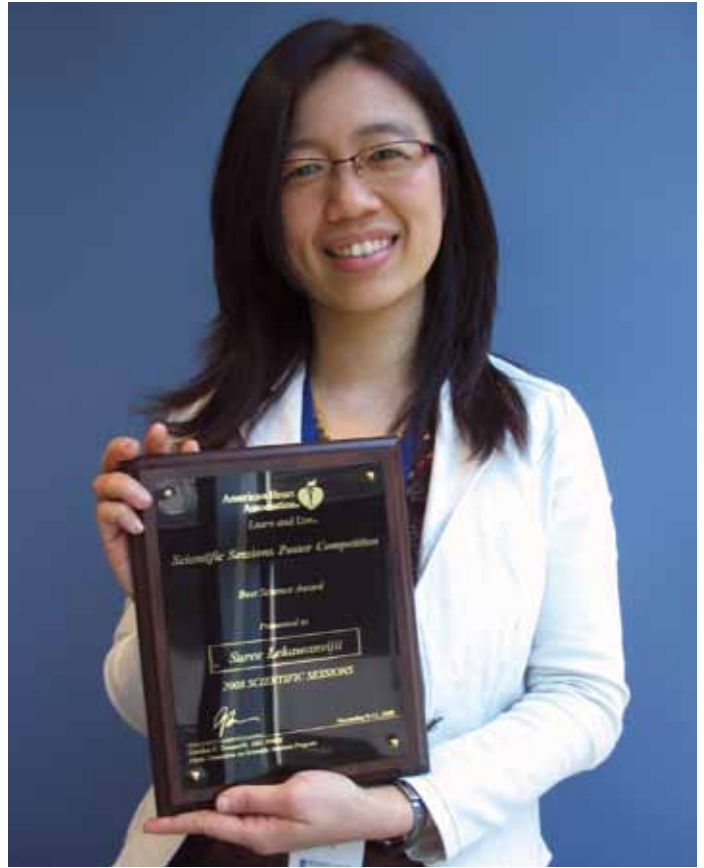


Carolina Weller working with a healthy participant on her compression bandaging study.

#### Carolina Weller

- Awarded a Monash Travel Grant to present two papers and a poster at the World Union of Wound Healing Society Toronto in Canada and European Wound Management Association in Lisbon, Portugal May/June 2008;
- Awarded a Victorian Wound Management Association Education Grant to present a paper at the 17th World Council of Enterostomal Therapists Congress Ljubljana, Slovenia July 2008;
- Awarded an Australian Legion of Ex-Servicemen and Women Postgraduate Scholarship from the nurses memorial centre to partly fund PhD research study-a pilot randomised controlled clinical trial to compare two compression bandaging systems in the management of people with venous ulceration. November 2008; and
- Awarded a Sutherland Medical Education Grant to partly fund a PhD research study – a pilot randomised-controlled clinical trial to compare two compression bandaging systems in the management of people with venous ulceration. November 2008.

**Judy Lowthian** was awarded a prize for the 'Best Poster Presentation' at the Cabrini Institute's 12th Annual Research Day on 12 November. Her poster was entitled 'Risk factors and medicating safely with warfarin'. Authors included Judy Lowthian, Basia Diug, Sue Evans, Ellen Maxwell, Michael Dooley, Peter Cameron, Leon Piterman, Alison Street, Rory Wolfe and John McNeil.



**Suree Lekawanvijit** (pictured above) was awarded a Monash Postgraduate Research Travel Grant to present a poster at the American Heart Association (AHA) in New Orleans, 9 to 12 November 2008. Suree won the highly competitive AHA poster prize for Basic Science. Suree's PhD is on the pathophysiology of cardio-renal syndrome. She has been researching the effect of a particular toxin, indoxyl sulphate. The toxin is a waste product produced in normal body metabolism and is normally flushed out by healthy kidneys. Poor kidney function results in a cascade of health problems, one of which can be cardiac dysfunction. The poster showcased her research which has demonstrated for the first time that indoxyl sulfate damages heart tissue.

**Sharon Brennan** (PhD student) had an article accepted into Journal of Bone and Mineral Research (top bone journal, Impact factor 6.004) Brennan SL, Henry, MJ, Wluka AE, Nicholson, GC, Kotowicz, MA, Williams, JW, Pasco, JA. Bone mineral density in population-based adult females is associated with socioeconomic status.

**Bridget Pratt** received an Australian Postgraduate Award and a Faculty of Medicine Postgraduate Excellence Award in December 2008.



**Zanfina Ademi** (pictured above)

- Awarded two travel awards to attend the 22nd Scientific Meeting of the International Society of Hypertension (ISH), Berlin, Germany, 14 and 19 June 2008: one from the Hypertension 2008 Conference Travel Grant Committee in Berlin and the other is a Young investigator travel award from the Foundation for High Blood Pressure Research;
- Of the Student's Choice Best Poster Award at the High Blood Pressure Research Council of Australia conference, held in Melbourne, December 2008; and
- Was also accepted by International Society of Hypertension (ISH) as an ISH Research Fellow. The ISH Research Fellowship is established as a yearly category and is not funded. The Fellowship for PhD students allows recipients to save on conference registration, build relationships, have access to ISH membership, be exempt paying annual ISH membership fee and be eligible to receive or nominate candidates for Biennial ISH awards.



**Lavinia Tran** (pictured above)

- Awarded the runner-up prize for an oral presentation at the Cardiac Society of Australia and New Zealand (CSANZ) as part of the International Society of Heart Research (ISHR) Student Investigator category;
- Poster finalist at the European Society of Cardiology (ESC) held in Munich, August 2008, for which she received a travel award; and
- Awarded a National Heart Foundation postgraduate scholarship.

#### **Adrienne O'Neil**

- Was awarded a National Heart Foundation postgraduate scholarship; and
- Received Award for National Heart Foundation's (Vic) Highest Ranked Scholar, Public Health.

## Doctoral students enrolled in 2008

Ninety-nine doctoral students were enrolled during 2008 across all areas of the School. They and their thesis topics are listed under the following headings:

- New students enrolled during 2008
- Continuing students enrolled during 2008
- Completed and passed during 2008

## New students enrolled during 2008

### Olivia Ball

A handbook of human rights analysis.

### Kristine Egberts

The role of lifestyle factors in surgically induced weight loss.

### Rosanne Freak-Poli

Global corporate challenge evaluation: The evaluation of a low-cost, low-impact physical-activity workplace intervention.

### Judith Gold

The medium and the message: an investigation of how youth access, interpret and implement sexual health information.

### Victor Hoe

The CUPID study: risk factors for musculoskeletal and somatic symptoms and associated disability in workers.

### Suree Lekawanvijit

Cardiorenal Syndrome: pathophysiology and role of protein-bound uremic toxins and biomarkers.



### Judith Lowthian (pictured above)

Increasing demand for emergency patient services in the Australian community: underlying drivers, implications and potential solutions.

### Biswadev Mitra

Transfusion practice in trauma resuscitation.

### Mohammadreza Mohebbi

Multilevel (hierarchical) regression models and their application to spatial statistics and reliability studies.

### Christine Moje

Infection surveillance – evaluation and comparative analysis using routinely collected data sets.

### Gerard O'Reilly

International Trauma Epidemiology: Paths and challenges to the establishment of trauma registries in developing (and developed) countries.

### Alisa Pedrana

Next wave: Innovative HIV prevention for men who have sex with men (MSM) in Victoria.

### Padaphet Sayakhot

- Menopause and breast cancer
- Understanding and perception of early menopause after treatment for breast cancer in partners of women with breast cancer.

### Jonathon Slater

Traumatic brain injury, neurotrauma and road traffic crashes.

### Geoffrey Strange

Seeing the invisible: The impediments of timely diagnosis of pulmonary hypertension.

### Andrew Teichtal

The determinants of articular cartilage health.

### Ella Zomer

Epidemiological modelling of cardiovascular disease and prevention strategies in patients with metabolic syndrome.

## Continuing students enrolled during 2008

### Asnawi Abdullah

The duration of obesity and its impact on estimating risk, burden of chronic diseases, costing and health policy.

### Helen Margaret Ackland

Assessment of the correlation of clinical and radiographic findings in acute cervical discoligamentous injury with long term outcomes in road trauma patients.

### Zanfina Ademi

Pharmacoeconomics and health outcomes of cardiovascular disease.

### Nadine Andrew

Epidemiology and outcomes of serious sport and leisure injuries.

### Liz Barr

The contribution of impaired glucose metabolism to cardiovascular disease and to mortality in Australians.

### Alison Beauchamp

Socioeconomic status as a determinant of cardiovascular disease in the Melbourne Collaborative Cohort study.

### Charmian Bennett

The impact of environmental exposures to particulate air pollution on respiratory health.



**Shan Bergin**

Community based management of diabetes related foot disease  
– current and future models of care.

**Patricia Berry**

The role of lifestyle factors on hip cartilage volume and rate of cartilage loss in a normal community-based population a longitudinal study.

**Megan Bohensky**

Linking clinical and administrative data to evaluate intensive care outcomes.

**Sharon Brennan**

How does bone metabolism affect knee cartilage in healthy women?

**Sue Brennan**

Evaluation of strategies designed to facilitate the translation of research evidence into health policy and improve quality of healthcare.

**Frank Buchanan**

The influence of gender on recovery from general anaesthesia.

**Paul Burton**

Physiological studies of the oesophago-gastic junction relating to satiety.

**Adrian Cameron**

The metabolic syndrome in Australia.

**Jessica Malini Chellappah**

Surveillance and modification cardiovascular risk factors in children and young adults.

**Lei Chen**

Development and validation of appropriate methods for the prediction of risk of future cardiovascular events in the contemporary Australian.

**Georgiana Chin**

Transitions of care – Obstetric Clinical Handover. The study, observation and improvements in Obstetric Clinical Handover to improve the efficacy and patient safety in this practice.

**Barbary Clarke**

Contending with life-threatening illness: Is there a case for lesbian-specific healthcare? A case study examining lesbians and heterosexual women, their carers and health care providers.

**Ben Clissold**

Analysis of ambulance factors in identification of stroke and accessibility to hospitals with acute stroke therapies.

**Jennifer Ann Coghlan**

The efficacy and safety of different peri-operative modalities of pain control in subacromial decompression and/or rotator cuff repair surgery for rotator cuff disease.

**Sarsha Collett**

Post-mortem CT assessment of age related changes to the cervical spine.

**Deborah Colville**

Curriculum and the professional identity of Australian ophthalmologists.

**Janet Davey** (pictured above)

A forensic study of Graeco-Roman child mummies.

**Miranda Davies**

The effect of obesity and weight loss on OA on the knee.

**Basia Diug** (pictured right)

How do social risk factors effect Warfarin therapy? What are the social responsibilities and strategies in place to deal with these risk factors.

**Glenn Doolan**

Occupational exposure using self reports and a job exposure matrix in relation to prostate cancer from an Australian case-control study.

**Gregory John Duncan**

Incidence and prevalence study of people experience chronic wounds in the community in Victoria.

**Maros Elsik**

Fibrosis and remodeling in chronic heart failure  
– mechanisms and treatment.

**Soula Fillipas**

Exercise and HIV/AIDS.

**Simon French**

Developing and testing complex interventions for improving the use of evidence in clinical practice.

**Cameron Gosling**

Incidence, risk factors and outcomes of injuries in triathletes.

**Sabrina Gupta**

Type 2 diabetes health promotion strategies and evaluations: experiences, perceptions and responses in the Indian community in Australia.

**Steven Haas**

The epidemiology of chronic heart failure.

**Cheryce Harrison**

Exercise physiology.

**Samantha Hutchison**

Insulin resistance and cardiovascular disease in polycystic ovarian syndrome.

**Imo Inyang**

Assessment of exposure to radio-frequency energy in an epidemiological cohort.

**Pupalan (Balan) Iyngkaran**

The renovascular axis in cardiovascular disease.

**Rebecca Jenkinson**

The epidemiology of psychostimulant use and related harms.

**Paul Jennings** (pictured above)

Analgesia in the Victorian prehospital setting.

**William Wilson Kemp**

The impact of norfloxacin on portal pressures and endotoxaemia in clinically significant portal hypertension and the role of urotension II.

**Debra Kerr**

Determining the efficacy of intranasal administration of naloxone by paramedics for the treatment of suspected heroin overdose in prehospital setting.

**Louisa Lam**

The diagnosis and treatment of patients with acute decompensated heart failure.

**Geraldine Lee**

The utility of the ECG in detecting and managing cardiovascular disease in South Africa: The heart of Soweto study.

**Megan Su Cheng Lim**

Sexually transmitted infections and risk behaviours: novel surveillance and health promotion approaches.

**Catherine Lombard**

Preventing weight gain in women.

**Jocelyn Lowinger**

Development and testing of indicator(s) for monitoring and managing warfarin related harm in Australia.

**Ewan MacFarlane**

Occupational exposures and cancer risk in Australian workers.

**Michele McGrady** (pictured above with Marina Skiba)

Epidemiological assessment of aboriginal and non-aboriginal Australians at high risk of developing heart failure.

**Dean McKenzie**

The development, comparison and application of brief psychological diagnostic and screening tests by statistical and machine learning methods.

**Joanne McKenzie**

The construction and implementation of clinical trials via the internet.

**Joanne O'Toole**

Water reuse and alternative water sources: attitudes, practices, risk assessment and human health outcomes.

**Jennifer Pilgrim**

Role of pharmacogenomics in drug-caused death.



### Shyamala Nataraj

Bioethics and HIV interventions.

#### How consent is obtained for antenatal HIV testing in rural Tamil Nadu in Southern India.

Shyamala Nataraj has recently returned to Melbourne after a 12 month stay in a small village of approximately 90 households, in the region of Theni in the foothills of the Western Ghats in Tamil Nadu, India. In describing why she chose that particular village, Shyamala said, "The South Indian plains are very hot. I wanted a place to stay which was both beautiful and had a pleasant climate."

Shyamala is a native Tamilian, and started the South India AIDS Action Program (SIAAP) in 1991. She has remained committed to the SIAAP work, including working for the rights of people affected by HIV and dealing with discrimination issues. In 2005, she was one of 1000 women from 150 countries nominated as part of the 1000 Women for Nobel Peace Prize 2005 project. The project recognised the women for their commitment to peace and justice.

She started a Master of International Research Bioethics in DEPM in 2005; and went on to commence a doctoral program in the department under the supervision of Associate Professor Bebe Loff, Dr Milica Markovic and Professor Brian Oldenburg. The last 12 months were spent collecting data for her topic, 'Informed consent in antenatal HIV testing in rural Tamil Nadu'.

The HIV prevalence data for most Indian states is established through testing pregnant women at antenatal clinics. India has a reported prevalence of 0.9 per cent for HIV. This is low compared with other countries such as South Africa, with a reported prevalence of 25 per cent. However, SIAAP's work and the purpose of Shyamala's research are directly intended to ensure that people are protected from discrimination and abuse of human rights, while continuing to keep the rates low.



Shyamala Nataraj's research assistant, Anu Somasundaram (left), with women in the study.

The World Health Organisation (WHO), and the United Nations Joint Program for AIDS (UNAIDS), recommendation is that HIV testing should be offered routinely to pregnant women to help prevent transmission to the infant, but should only be carried out voluntarily, with the consent of the individual concerned. Although voluntary testing is officially supported in India, in practice, Shyamala says, it doesn't quite work like this.

Shyamala has used both qualitative and quantitative methods for her research, respectively undertaking 90 interviews and obtaining 405 survey returns. She also deliberately went to a clinic as a patient, to experience firsthand the routine process of examination, and attitudes of staff to clients.

Indian hospital staff and health professionals have much pressure on them to obtain compliance for HIV testing, and they in turn exert pressure on clients to achieve the compliance. Shyamala saw various methods employed. However most women interviewed by Shyamala for her study say testing was a good thing, because it was important to know if they had HIV and therefore if their babies were at risk. Husbands are also encouraged to test as part of the program, but often get tested after their wives. In the case of women testing positive for HIV, this can cause a problem, say the women, and advocate simultaneous testing for the couple. The women also say they are very concerned about confidentiality because of the high level of stigma that continues to be associated with HIV infection. However, Shyamala observes that maintaining confidentiality is not easy in rural communities.

Shyamala is currently working on her analysis and will be giving a seminar in early 2009 to discuss her methods and results in more detail.

For further information, contact Shyamala:  
[shyamala.nataraj@med.monash.edu](mailto:shyamala.nataraj@med.monash.edu)

To see SPHPM enews visit:  
<http://depmnews.med.monash.edu.au/index.cfm>

**Shelly Rodrigo**

Health effects of increased usage of recycled water and alternative water sources.

**Margaret Stebbing**

Current issues in risk perception and the transmission of ideas of risk.

**Rwth Stuckey**

Evaluation of occupational health for light vehicle use.

**Ogilvie Thom**

Preventive aspects of non-invasive haemodynamic monitoring in severely ill patients in the emergency department.

**Nicholas Thomson**

Public health implications of amphetamine use epidemic in Northern Thailand.

**Lavinia Tran**

Therapeutic targeting of signalling pathways in cardiovascular disease.

**Tari Turner**

Pragmatic methods of evidence-based clinical practice guideline development.

**Helen Walls**

Effectiveness, cost-effectiveness and equity of obesity prevention strategies.

**Nicholas Matthew Walsh**

Psychosocial, environmental and pharmacotherapy determinants of antiviral treatment in injecting drug users.

**Jason Wasiak**

The physical and psychosocial outcomes following burn injury: A 12 month follow-up study.

**Carolina Weller**

Chronic wounds: outcomes for people attending specialist wound clinics.

**Sanjeewa Pradeep Wijayaratne**

Osteoarthritis – Factors affecting patella cartilage volume in healthy population.

**Ruwan Wijemunige**

Improving the prevention and early detection and secondary brain injury in traumatic brain injury patients within the ICU setting.

**Cameron Willis**

The practicality of using indicators to assess quality within health systems.

**Michael Wu**

Assessment of the mechanisms involved and severity of arterial disease in insulin resistant states including diabetes.

**Julie Zabinski**

Casualties of peace: social aspects of the health of the younger Australian war veteran community.

**Hendrik Zimmet**

Novel experimental strategies combining mesenchymal stems cells (MSC) with angioblasts and cost-efficacy analyses of such strategies in the treatment of congestive heart failure.

## Completed and passed during 2008

**Mohammad Ansari**

Proposal to develop a system to monitor aspects of the quality and performance of the Victorian healthcare system using routine data sources.

**Susan Colles**

Impact of dietary and behavioural factors on obesity and response to treatment.

**Adam Dowrick**

Development of an orthopaedic trauma registry to evaluate and monitor treatment effectiveness.

**Andrea Fradkin**

Sports injury epidemiology.

**Rebecca Guy**

Linked voluntary sentinel surveillance for HIV in Victoria.

**Linton Harriss**

Dietary risks and alcohol as determinants of cardiovascular disease in the Melbourne Collaborative Cohort Study.

**Peter Higgs**

Ethnic Vietnamese drug users and blood borne viruses: A study of social contexts, culture and risk.

**Jillian Ikin**

War exposure and its health outcomes in service personnel.

**Kyriakos Karipidis**

War stressors, mental health and well-being outcomes in Australian veterans and service personnel.

**Karin Leder**

Infections in travellers.

**Julie Yallop**

Multi-centre national and multi-national clinical trials in chronic disease – methodological considerations.

**Tsharni Zazryn**

A prospective study of cumulative brain injury in boxers.



# Funding sources

The School had research income of \$23M during 2008 from new and continuing grants. This section includes summary information from all components of SPHPM. Since this is the first year of the School's operation, only 2008 data are used for the summary table.



Clinical pharmacology group, DEPM.

## 2008 funding

NHMRC research funding	\$9,509,114
Other research funding	\$9,001,834
Commercial income	\$4,568,601
<b>TOTAL</b>	<b>\$23,079,549</b>

The grants included are only those administered by the School. They include Commonwealth schemes eg National Health and Medical Research Council (NHMRC) and Australian Research Council (ARC) project and program grants, fellowships, scholarships and commercial grants.

Grants are listed according to whether they are new or continuing in 2008. In each section, research projects are listed in alphabetical order by title. Information included:

- Title
- Grantor
- Grant type/grant scheme
- CI1
- Start-to-end dates
- Total financial contribution across entire period

## Research funding beginning in 2008

Analysis of quantitative data on consumer responses to nutrition content claims. Food Standards Australia New Zealand, D Jolley, 2008, \$10,964

Assessment and treatment of cardiovascular risk factors, diabetes and insulin resistance in Polycystic Ovary Syndrome. NHMRC Postdoctoral Fellowships, L Moran, Supervisor: HJ Teede, 2008–2011, \$254,000

Assessment of cardiovascular disease risk across Polycystic Ovary Syndrome phenotypes. DART, L Moran, HJ Teede, 2008, \$47,500

Core funding for the Australasian Cochrane Centre. Commonwealth Department of Health and Ageing, 2008, \$433,184

Early career bench and bedside collaboration grant. Victorian Cancer Agency, A Deeks, P Sayakhot, Supervisor: H Teede, Breast Cancer, Menopause and Partners, 2008, \$5000



Research nurse, Kathleen White, with a patient.

Establishment of a cohort of study of Australasian firefighters (Phase 1). Australasian Fire and Emergency Service Authorities Council, D Glass, M Sim, 2008–2009, \$129,000

Evaluation of the better access to mental health initiative. Department of Health and Ageing, J. Wainer, sub-contracted to Professor B Martin, National Institute of Labour Studies, Flinders University, 2008, \$32,000

Evaluation of "Evidence Aid". Cochrane Collaboration, M Clarke, S Green, P Tharyan, P Lumbiganon, P Garner, H Smith, T Turner, C Harris, 2008, \$7,410

Evidence-based care of people with dementia (IRIS). Dementia Research Grants Program Round 2, S Green, C Browning, B Workman, L Flicker, D O'Connor, C Harris, J McKenzie, D Mortimer, S French, N Spike, D O'Connor, F Dickson, 2008–2011, \$1,051,265

Evidence Service. Traffic Accident Commission and Worksafe Victoria, C Harris, S Green, V Pitt, 2008, \$160,288

Gender competence in medical education. India Ford Foundation, J Wainer, 2008, \$15,000

Glycaemia and cardiovascular disease outcomes in patients with diabetes and CKD: methodology, relationship and management. NHMRC Postdoctoral Fellowships, S Zoungas, Supervisor: HJ Teede, 2008–2010, \$150,000

Gynaecological cancer workforce. Department of Health and Ageing, J Wainer, sub contracted to Professor B Martin, National Institute of Labour Studies, Flinders University, 2008, \$54,000

Health Watch Case Control Study (reopening), Australian Institute of Petroleum Ltd, M Sim, D Glass, 2008–2012, \$500,000

Health workforce training, Hobart, Melbourne, Department of Health and Ageing, C Browning, C Joyce, J Wainer, 2008, \$9450

Identification of gestational diabetes, impaired glucose tolerance and type 2 diabetes mellitus in high risk women at twelve to fourteen weeks gestation. Novo Nordisk Regional Diabetes Scheme Grant, M Williamson, C Allan, HJ Teede, 2008, \$8000

Impact of exposure misclassification from personal protective equipment use on exposure-response relationships. M Friesen, M Sim. Monash University Faculty of Medicine, Nursing and Health Sciences, 2008, \$35,000

Literature review regarding patient engagement in safety and quality initiatives for the Australian Commission on Safety and Quality in Health Care. Australian Commission on Safety and Quality in Health Care, N Dunbar, R Aroni, F Dickson, 2008, \$47,410

NHMRC Postdoctoral Health Professional Fellowship. S Zoungas, 2008, \$34,875

Measurement of glycaemic control in patients with type 2 diabetes and chronic kidney disease. Novo Nordisk Research Grant, S Zoungas, H Teede, 2008, \$8000

Peri-operative management of hyperglycaemia: Improving outcomes for patients with hyperglycaemia undergoing cardiac and vascular surgery. DART, HJ Teede, C Wright, J Wong, C Harris, M Williamson, J Smith, 2008, \$36,000

Prevention of weight gain and gestational diabetes in high risk women. Brockhoff Foundation, HJ Teede, A Deeks, J Micheltmore, 2008–2009, \$150,000

Prostate cancer screening in general practice – knowledge, practice and uptake of evidence. Ilic D, Victorian Cancer Agency, 2008, \$50,000

Protecting elders' assets study (PEAS). State Trustees, P Darzins, 2008, \$25,000

Queensland firefighter cancer incidence study. State of Queensland Department of Emergency Services, D Glass, M Sim, 2008, \$44,425

Research into patterns of care in gynaecological cancers. Cancer Australia, S Green, D Mazza, M Quinn, D O'Connor, J McKenzie, K Murphy, 2008, \$95,555

STOP diabetes: Health related behaviour and risk perception in women with lifestyle related metabolic diseases at high risk of diabetes. International Diabetes Federation (Bridges) Grant, H Teede, A Deeks, J Micheltmore, C Allan, C Lombard, S Zoungas, 2008–2010, \$500,000

Targeting heme-oxidised/heme-free soluble guanylyl cyclase to identify diabetic patients at risk of development of vascular disease. DART, G Drummond, S Zoungas, HJ Teede, B Kemp-Harper, M Wu, H Schmidt, 2008, \$51,943

Teaching into MBBS course MBBS. Monash University, J Wainer, 2008, \$15,000

The CUPID international multicentre study: baseline study of health beliefs and occupational musculoskeletal disorders. Monash University, Faculty of Medicine, Nursing and Health Sciences, H Kelsall, M Sim, 2008, \$35,000

To oversee the development process and quality assurance mechanisms of evidence-based guidelines. NHMRC Register of Experts in Evidence-Based Medicine, S Green, C Harris, T Turner, D Jolley, J Watts, D Ilic, M Misso, S French, 2008–2009, \$34,560

Understanding the barriers to improved access, engagement and retention of methamphetamine users in health services. NHMRC, D Moore, P Dietze, G Bammer, P Perez, 2008–2011, \$756,850

## Continuing grants

A case-control study investigating factors contributing to the risk of bleeding in patients receiving warfarin therapy. J McNeil, P Cameron, R Wolfe, M Dooley. NHMRC Project Grant. 2007–2009, \$553,550.

A comprehensive regulatory strategy for obesity prevention in Australia. NHMRC Preventive Healthcare and Strengthening Australia's Social and Economic Fabric Research Grant B Loff, A Peeters, B Swinburn, M Lawrence, M Ackland. 2007–2011 \$761,184

A national clinical trials register, NHMRC Enabling Grant, J Simes, D Ghersi, M Stockler, A Keech, S Green, D Henderson-Smart, H Krum, G Jennings, 2007–2008, \$700,000

A phase II randomised controlled trial of atorvastatin therapy in intensive care patients with severe sepsis. NHMRC Project Grant. P Kruger, B Venkatesh, R Bellomo, K Kostner, J Cooper, M Roberts. 2007–2008, \$603,825.

A prospective cohort study of recent onset low back pain in primary care. NHMRC Training Fellowship – Health Professional Research, P Kent, 2006–2009, \$188,300

A prospective pilot observational study of blood product transfusion practices in Australian Intensive Care Units, Australian Red Cross Blood Service, Research Grant, Jamie Cooper, 2008, \$98,000



Dr Bing Wang, Senior Research Fellow and Ms Anastasia Adrahtas, Research Assistant



A randomised, double-blinded intervention study to assess health effects of drinking water from rainwater tanks. CRC for Water Quality and Treatment Scholarship: S Rodrigo, 2006–2009, \$23,076

A randomised, double-blinded intervention study to assess health effects of drinking water from rainwater tanks, NHMRC, Karin Leder, 2006–2008, \$844,313

Absolute risk prediction of subsequent cardiovascular events in large cohorts of elderly Australians with hypertension, NHMRC, Research Grant, Mark Nelson, 2008–2010, \$192,000

Administration officer to develop a complete, reliable, accessible register of active cancer trials in southern Melbourne, Victorian Cancer Agency, Jeremy Millar, 2008, \$40,000

Advice on dioxins – consultancy to Blue Circle Southern Cement, Berrima, Blue Circle Southern Cement, Contract Research, Brian Priestly, 2008, \$6000

An implementation trial of a telephone-based care management program for patients following myocardial infarction, NHMRC, Brian Oldenburg, 2007–2009, \$569,875

Aspirin in reducing events in the elderly (ASPREE) trial. Bayer Health Care, CI J McNeil, 2006–2012, \$285,486

Assessment of ovarian reserve in premenopausal women with breast cancer following chemotherapy. Victorian Cancer Agency, A Vincent, H Burger, D Robertson, H Teede, M White, B Vollenhoven, 2007–2008, \$117,335

Australian Biosecurity Collaborative Research Centre re-bid, Australian Biosecurity Collaborative Research Centre, Robert Hall, 2008. \$25,000

Australian Centre for Radiofrequency Bioeffects Research (ACRBR); Mobile phone users surveillance study (MORPHEUS). NHMRC CRE, CI I Cosic, 2005–2008, \$2,499,200

Australian resuscitation in sepsis evaluation – randomised controlled trial, NHMRC, Research Grant, Rinaldo Bellomo, 2008–2011, \$2,423,132

Australian Rheumatology Association Database (ARAD). NHMRC Enabling Grant – Special Facilities, CI R Buchbinder, 2006–2010, \$1,250,000

Background papers for health promotion summit, VicHealth, Robert Hall, 2008, \$30,000

Better targeting of preventive services using epidemiological modelling NHMRC Development Grant J McNeil, A Peeters, B Oldenburg, B Hollingsworth, M Nelson, M De Courten, 2007–2011, \$1,823,750

Building a network for evidence-based research and practice in South East Asia: Impact on pregnancy and childbirth care and outcomes (SEA-ORCHID). Wellcome/NHMRC ICRG, D Henderson-Smart, P Lumbiganon, C Crowther, M Festin, S Green, J Ho, 2006–2009, \$1,606,929

Building brief screening and diagnostic tests of mental health (McKenzie, Dean PhD scholarship), NHMRC, Scholarship, Dean McKenzie, 2007–2008, \$43,732

Building clinical research capacity in regional Victoria through ASPREE, Victorian Cancer Agency, Infrastructure, John McNeil, 2008, \$143,989

Cancer incidence, the effect of diet and physical activity on breast cancer prognosis, disability and quality of life in ageing Australians investigated through the MCCA. NHMRC Training Fellowship – Public Health Postdoctoral Fellowship, H Kelsall, 2006–2009, \$299,000

CARDIAC-ARIA – Measuring the accessibility to cardiovascular services in rural and remote Australia via applied geographical spatial technology (GIS), ARC, Unknown, Simon Stewart, 2007–2008, \$105,792

Caring for Asylum Seekers in Australia: Bioethics and Human Rights ARC Project Grant D Zion 2007–2009, \$95,723

CCRE – Circulatory and associated conditions in urban and Indigenous peoples. NHMRC CCRE, CI B Oldenburg, 2006–2010, \$1,998,868

Centre of Research Excellence in Patient Safety (CREPS). NHMRC and Australian Council for Safety and Quality in Health Care. CI J McNeil, 2005–2010, \$2,640,000

Chemical exposure and brain tumours, National Institutes of Health, Research Grant, Geza Benke, 2008, \$50,000

Citizens' views on chronic disease prevention and health promotion, VicHealth, Research Grant, Brian Oldenburg, 2008–2009, \$74,436

Clinical outcomes following the use of blood products in Australia, Australian Red Cross Blood Service, Research Grant, John McNeil, 2008–2010, \$872,235

Clinical Trial Management for the Than Study, Inverness Medical Innovations Australia, Contract Research, Christopher Reid, 2008–2009, \$110,800

Comprehensive evaluation framework to assess health promotion action plans, Department of Human Services, Maximilian de Courten, 2008, \$96,862

Cost-effectiveness analyses of improved adherence to management plans among Australians, Alfred Health, Linkage, John McNeil, 2008–2010, \$44,000; Roche, Linkage 2008–2010, \$80,000



CRC-Health Stream Newsletter. CRC for Water Quality and Treatment Newsletter publication, CI M Sinclair, 1995–2008, \$472,844

CRC for Water Quality and Treatment research salary support M Sinclair. 1995–2008, \$640,000

Determinants, CRC for Water Quality and Treatment, John McNeil, 2001–2008, \$640,000

Development of a health assessment package for use under the Workhealth initiative, Victorian WorkCover Authority (WorkSafe Victoria), Contract Research, John McNeil, 2008, \$88,500

Development of a website to improve the prevention and management of type 2 diabetes, Geelong Medical and Hospital Benefits Association, Brian Oldenburg, 2008–2009, \$72,718

Development of evidence-based guidelines for cardiovascular absolute risk. National Vascular Disease Prevention Alliance: Heart Foundation, S Green, D Jolley, D Campbell, C Harris, 2006–2008, \$76,834

Development of novel anti-inflammatory compounds. Monash Proof-of-Concept Fund, CI B Wang, P Scammells, H Krum, 2008, \$49,887

Dyslipidemia prevalence study, Merck, Sharp and Dohme (Australia) Pty Ltd, Contract Research, John McNeil, 2008, \$22,000

Does hyperbaric oxygen therapy reduce complications and improve outcomes after open tibial fractures with severe soft tissue injury? An international multi-centre randomised controlled trial. Victorian Trauma Foundation, CI I Millar, 2006–2009, \$273,000

Drinking patterns, gender and social roles in alcohol problems in Victoria, in an international comparative context. NHMRC Project grant, P Dietze, R Room, T Chikritzhs T, L Vaughan, M Ackland, D Jolley, 2006–2008, \$336,875

Drinking patterns, gender and social roles in alcohol problems in Victoria in an international comparative context. Project, P Deitze, R Room, T Chikritzhs, D Jolley, M Ackland, L Vaughan, 2007–2008 \$224,876

Drug policy modelling program: Stage 2. Colonial Foundation Trust, Ritter, Bammer, Mazerolle, Dietze, Perez, 2006–2010, \$7.6 million

Ecstasy and related drug reporting systems. DOHA, Burns *et al*, Ongoing \$48,000 pa

Effectiveness, cost-effectiveness and equity of strategies to reduce the burden of obesity-related conditions, NHMRC, Helen Walls, 2007–2010, \$75,000

Enhancing communication transfer between the Ambulance Service and the Emergency Department, Transport Accident Commission, Research Grant, Ian Patrick, 2008, \$59,478



From left to right: Lynette Murray, Belinda Howe and Lorraine Little – Research Fellows with the ANZIC-RC group.

ENVIS-ion – Aspirin for the prevention of cognitive decline in the elderly: a neuro-vascular imaging study, NHMRC Project Grant, Marc Budge, 2008–2012, \$1,272,702

Epidemiological assessment of Aboriginal and non-Aboriginal Australians at high risk of developing heart failure. National Heart Foundation Scholarship M McGrady, 2007–2009

Epidemiological modelling of cardiovascular disease and diabetes in Australia. ARC Project Linkage Grant D Liew, C Reid, A Owen, J Shaw, D Magliano, 2007–2009, \$212,000

Epidemiological modelling of cardiovascular disease and diabetes in Australia. NHF Fellowship D Liew, C Reid, 2007–2008, \$122,686

Epidemiology of diabetes-related complications (Sidney Sax Fellowship), NHMRC, Sidney Sax Fellowship, Robyn Tapp, 2005–2009, \$376,397

Epidemiological research into nutrition and cardiovascular disease. NHMRC Public Health Fellowship, E Ashton, 2003–2008, \$281,400

Epidemiology of diabetes related complications. NHMRC Sidney Sax Fellowship, R Tapp, 2005–2008, \$340,772

EPILONG- Efficacy and safety of eplivanserin 5mg per day on sleep maintenance insomnia: A 12-week multicentre randomised double blind placebo controlled study following by an open treatment phase extension, Sanofi-Aventis Australia Pty Ltd, Contract Research, Henry Krum, 2006–2009, \$183,720

Establishment of a cohort study of Australasian firefighters (Phase 1), Australasian Fire and Emergency Service Authorities Council Ltd, Contract Research, Deborah Glass, 2008–2009, \$119,000

Evaluating a novel, automated telephone system for improving the long term management of diabetes. HCF Health and Medical Research Foundation, Cl B Oldenburg, 2006–2008, \$311,032

Evaluation of Heart Health Online: A program to assist GPs to manage depression and related illnesses in patients with coronary heart disease has received funding, beyondblue: the national depression initiative Victorian Centre of Excellence in Depression and Related Disorders, Research Grant, C Pier, 2008–2010, \$150,000

Evaluation of the Medibank Private betterhealth program. Medibank Private Limited, D Campbell, J Watts, D Jolley, K Allen, 2007–2008, \$173,938

Evaluation of orthopaedic treatment across Victorian hospitals, HCF Health and Medical Research Foundation, 2006–2008, \$124,000

Factors that affect knee structure in healthy women Geelong MRI, NHMRC Project Grant, A Wluka, J Pascoe, M Kotowicz, M Henry, 2007–2009, \$165,400

Fitness versus fatness and burden of disease, NHMRC Project Grant, A Forbes, A Peeters 2007–2008, \$246,574

Gladstone clean air project, Queensland Health, Contract Research, Brian Priestly, 2008–2009, \$18,000

Global Corporate Challenge Evaluation: The evaluation of a low-cost, low-impact physical-activity workplace intervention, Monash University, Anna Peeters, 2008, \$2000

Haemostasis Registry, Novo Nordisk Pharmaceuticals Pty Ltd, Contract Research, Peter Cameron, 2004–2010, \$841,953

Health inequalities, governance and participation. VicHealth Senior Research Fellowship: B Loff, 2006–2010, \$650,000

Health services utilisation and urban dual reticulation systems, CRC for Water Quality and Treatment, Karin Leder, 2007–2008, \$82,471

Healthwise Study. Alcoa Australia Ltd, M Sim, B Musk, L Fritschi, N de Klerk, 1994–2009, \$4,636,035

Help a mate – evaluation. Andrology Australia, D Ilic, S Green, 2007–2008, \$28,000

Health credits: Identifying the economic benefits of licensed premises and translating them into health out-comes at a local level. Victorian Department of Human Services Public Health Research Grants Scheme, Fitzgerald, Room, Mallick, Hseuh, Dietze, Munro, Francis, 2007–2008, \$100,000

Health Watch Case Control Study (maintenance), Australian Institute of Petroleum Ltd, M Sim, D Glass, 2005–2012, \$1,097,880

Hip and groin pain in young AFL football players – Pre-existing or a product of the change to the elite senior level?, Australian Football League R&D Board, Research Grant, Belinda Gabbe, 2008, \$19,167

How to improve Australia's health system – Listening to citizens views about prevention, MBF Foundation, Contract Research, Brian Oldenburg, 2008, \$50,000

Hyperbaric oxygen in lower limb trauma, NHMRC Project Grant, Ian Miller, 2008–2012, \$684,375; Transport Accident Commission Health Research, Ian Miller, 2007–2009, \$273,000

Illicit drug reporting system. DOHA, Burns *et al*, Ongoing \$60,000 pa

Implementing clinical practice guidelines in general practice: a cluster RCT (IMPLEMENT). Project Grant, S.Green, N.Spike, P Schattner, J Grimshaw, J McKenzie, D O'Connor, D Mortimer, S French, N Spearing, 2005–2008, \$426,000

Improving care for people with acute low back pain by allied health professionals: a cluster RCT (ALIGN. Project Grant, S Green, J McKenzie, J Grimshaw, D Mortimer, J Keating, B Walker, D O'Connor, S French, S Michie, J Francis, 2007–2009, \$653,689

Improving the measurement and monitoring of long term outcomes following trauma. NHMRC Career Development Award, B Gabbe, 2007–2011, \$445,000

Improving the measurement of function and quality of life outcomes in paediatric trauma, Transport Accident Commission Health Research, Research Grant, Belinda Gabbe, 2007–2008, \$156,000

Improving warfarin management: identifying risk factors for bleeding and improving monitoring mechanisms, NHMRC, Public Health (Australia) Fellowship, Sue Evans, 2008–2011, \$279,000

Independent and combined effects of blood pressure lowering on arterial stiffness: A sub-study of HOPE-3, National Heart Foundation, C Reid, 2008–2009, \$120,126

Integrate Project. Bristol-Myers Squibb. CI H Krum, C Reid, 2007–2009, \$389,499

Intelliheart Research Project. IM Medical Limited, CI D Eccleston, 2006–2008, \$447,000

Is Rho kinase an important mediator of the pathophysiological effects in cardiac hypertrophy and failure? National Heart Foundation Research Grant, H Krum, A Kompa, B Wang, C Drummond, 2007–2008, \$125,575

Linkage Scholarship, ARC Linkage, Ella Zomer, 2007–2010, \$102,508

Long-term implications of the increasing prevalence and duration of obesity for health in Australia: An aid to more effective and targeted prevention, VicHealth, Anna Peeters, 2004–2009, \$500,000

Measuring patient safety in private hospitals, Australian Centre for Health Research, Research Grant, Peter Cameron, 2007–2008, \$77,050

Melbourne Interventional Group, Abbott, Andrew Ajani, 2008, \$25,000

Mapping research evidence in traumatic brain injury and spinal cord injury with a view to refining research agenda and improving evidence-based practice. Victoria Neurotrauma Initiative, R Gruen, A Collie, A Kaye, C Harris, S Green, D Campbell, H Buchan, E Tavender, 2007–2008, \$444,260

Monash University Master of International Research Bioethics, National Institutes of Health, B Loff, 2007–2011, \$994,500

Monitoring and evaluation of the Victorian state trauma system. Department of Human Services/Transport Accident Commission Health Research, CI P Cameron, 2005–2008, \$1,771,469

National Burns Registry upgrade, Australia and New Zealand Burns Association P/L, Research Grant, Belinda Gabbe, 2008–2010, \$132,050

National Centre for Intensive Care Research (NCICR). NHMRC Enabling Grant (Clinical Trials Resources), CI R Bellomo, 2005–2010, \$1,290,000

National vascular disease-prevention alliance development of evidence-based practice guidelines for assessment of cardiovascular absolute risk for consideration by the NHMRC Health Advisory Committee. National Heart Foundation, Green, Campbell, Jolley, 2007–2008, \$24,546

New approaches for diabetes prevention in rapidly developing countries: Evaluation of a diabetes prevention program in Malaysia, Monash University, International Strategic Initiatives (ISI), Brian Oldenburg, 2008, \$30,000

New methods and approaches for the management and prevention of chronic diseases in indigenous peoples, NHMRC, Bronwyn Fredericks, 2007–2010, \$274,000

NHMRC Fellowship, Anna Ahimastos, 2007–2010, \$274,000

NHMRC Fellowship – Second five-year appointment and promotion (PF2), Jamie Cooper, 2007–2011, \$346,250

NHMRC Fellowship – Senior Research Fellowship – Christopher M Reid, 2008–2012, \$537,500

NHMRC Practitioner Fellowship. R Buchbinder, 2005–2009, \$388,500

NHMRC Practitioner Fellowship, Peter Cameron, 2009–2013, \$360,625

Nitrous oxide anaesthesia and cardiac morbidity in major surgery NHMRC Project Grant K Leslie, P Myles, P Peyton, B Silbert, 2007–2011, \$556,500

Normoglycaemia in intensive care traumatic brain injury study (NICE-TBI), Victorian Neurotrauma Initiative, Simon Finfer, 2008–2011, \$98,797

Novel therapeutic strategies to reduce the burden of chronic heart failure. NHMRC Program Grant, CI H Krum, 2005–2009, \$4,634,965

Nutritional therapy of severe acute pancreatitis, Australasian Society of Parenteral and Enteral Nutrition, Suzanne Morrison, 2008, \$10,000



Jane Sheldrake, Alfred ICU Nurse, collaborating with ANZIC-RC.

Occupational exposure and brain cancer (INTEROCC; Australian arm), International Agency for Research on Cancer (IARC), G Benke, 2007–2008, \$41,000	Randomised double-blind placebo-controlled trial of aspirin in primary prevention of CVD events or dementia in the aged (ASPREE). NHMRC Project Grant, CI J McNeil, \$3,503,500
Occupational respiratory and new technology epidemiology NHMRC Career Development Grant, G Benke 2007–2011, \$445,000	Randomised, placebo-controlled clinical trial of pharmacological intervention in high risk subjects with elevated BNP to prevent new heart failure. NHF Grant-in-Aid, CI H Krum, D Campbell, C Reid, S Stewart, 2008–2009, \$126,671
Omega-3 study – Body composition analyser, TANITAN Research Trust, Grant-in Aid, Alice Owen, 2008, \$12,968	Review and report on the status of HIV in Australia, Department of Health and Ageing, Contract Research, John McNeil, 2007–2008, \$115,350
Optimising trauma team performance in the emergency department, Transport Accident Commission, Research Grant, Peter Cameron, 2008, \$80,950	Review of Maine CFL Study and literature review of other relevant studies, Department of the Environment, Water, Heritage and the Arts, Contract Research, Brain Priestly, 2008, \$21,773
Outcomes following major trauma in Victoria: measuring recovery post-discharge. Transport Accident Commission, Belinda Gabbe, 2007–2009, \$103,500	Review of the environmental health risk assessment, Guidelines for assessing human health risks from environmental hazards, Department of Human Services, Tender, Brian Priestly, 2008–2009, \$265,000
Pooled analysis of petroleum case control studies. CONCAWE Contract Research, D Glass, R Schnatter, L Rushton, M Sim 2006–2008, \$413,730	Risk and determinants of fatal and non-fatal coronary heart disease in the Melfbourne Collaborative Cohort Study. NHMRC Project Grant, CI J McNeil, 2005–2009, \$422,500
Pre-ambulance basic life support for patients with severe head injury in rural areas (PABLES), Transport Accident Commission, Stephen Bernard, 2008–2009, \$53,800	Risk and determinants of fatal and non-fatal coronary heart disease in the Melbourne Collaborative Cohort Study (MCCS), Australian Health Management Group, Research Grant, John McNeil, 2004–2009, \$477,500
Pre-hospital management of tension pneumothorax – has it improved?, Transport Accident Commission, Ian Patrick, 2008, \$35,000	Risk prediction models for recurrent cardiovascular events and subsequent death, Monash University, James Cui, 2008–2009, \$153,177
Preventive Health Program (PHP), Australian Unity Health Ltd, Contract Research, John McNeil, 2007–2008, \$53,625	Risk prediction models for recurrent cardiovascular events and subsequent death, Monash University, Near Miss Grant, James Cui, 2008–2009, \$20,000
Primary health care in Australia: What is its scope and what is the role of the nurse? NHMRC Training Fellowship – Public Health Postdoctoral Fellowship: C Joyce, 2006–2009, \$269,000	Role of musculoskeletal biomechanical factors in cartilage loss in those who undergo partial medical meniscectomy, NHMRC Project Grant, CI F Cicuttini, 2005–2008, \$644,330
Profile of TAC major trauma: outcomes, cost and management (Stage 2), Belinda Gabbe, 2008, \$10,212	Socioeconomic status as a determinant of cardiovascular disease in the Melbourne collaborative cohort study, NHMRC, Scholarship, Alison Beauchamp, 2007–2009, \$82,689
Quality improvement initiative: Identifying action inertia in the management of hypertension, Bristol Myers Squibb, Christopher Reid, 2007–2010, \$389,500	Statistical services to Cochrane consumers and Communication Review Group. Australian Federal Department of Health and Ageing, D Jolley, 2007–2008, \$73,360
Quality Use of Diagnostic Imaging Program. Evidence Review and Clinical Scholar Project, C Harris, S Goergen, G Rumbold, Royal Australian and New Zealand College of Radiologists, 2007–2008, \$30,000	Sulodexide in diabetic nephropathy. Keryx Biopharmaceuticals Inc Contract Research, CI R Atkins, 2005–2008, \$662,754
Queensland Firefighter Cancer Incidence Study, Queensland Department of Emergency Services, Contract Research, Deborah Glass, 2008, \$44,425	Suboxone post-marketing surveillance. Reckit-Benkaiser, Degenhardt <i>et al</i> , 2007–2009, \$30,000 pa
Queensland Health Grant-various projects, Queensland Health, Brain Oldenburg, 2008, \$100,000	
Reducing harm to older persons from hot weather and heat waves. Department of Human Services, Joseph Ibrahim, 2007–2008, \$99,937.96	



Tai chi for independent living: RCT of efficacy of Tai Chi in delaying disability among older people. Project, Day, Hill, Flicker, D Jolley, Segal, 2007–2008, \$560,407

Testing and validating draft 'Operating Principles and Technical Standards for Australian Clinical Quality Registries', Department of Health and Ageing, Contract Research, C Reid, 2008–2009, \$931,686

The CUPID international multicentre study: baseline study of health beliefs and occupational disability, Monash University, Career Development Award, Helen Kelsall, 2008, \$35,000

The CUPID study: Factors related to musculoskeletal and other somatic symptoms and associated disability in workers, Monash University, Malcolm Sim, 2008, \$20,000

The effect of sociodemographic and lifestyle factors on the risk of primary and revision joint replacement in the Melbourne Collaborative Cohort study, NHMRC, Public Health (Australia) Fellowship, Yuanyuan Wang, 2007–2010, \$274,000

The effect of weight loss on the risk of knee osteoarthritis and potential modification by biomechanical factors. NHMRC Project Grant, CI F Cicuttini, 2006–2008, \$464,000

The external evaluation of Pharmaceutical Benefits Advisory Committee. Australian Federal Department of Health and Ageing (PBAC) Submissions, 2007–2008, \$1,452,666

The lipid study: 16 year outcomes and predictors of risk and their interactions in CHD patients, NHMRC, Project Grant, Andrew Tonkin, 2008–2010, \$736,364

The Natural History of Parkinson's Disease: Functional Ability and Costs of Treatment. US National Parkinson's Foundation, R Iansek, M Morris, D Jolley, J Watts, D Campbell, 2006–2008, \$300,000

The practicality of using indicators to assess quality within health systems. NHMRC Scholarship, C Willis, 2006–2008, \$80,451

The provision of contracted services for a background paper on international, Department of Health and Ageing, Brian Oldenburg, 2008, \$43,493

The risk factors for ecstasy and related drug overdose: A case-crossover study. National Health & Medical Research Council, P Dietze, V Munir, J Johnston, C Fry, D Smit, L Degenhardt, 2007–2009, \$310,125

The role of myocardial fibrosis in ventricular remodelling in heart failure – novel treatment and monitoring strategies (Maros Elsik PhD scholarship), NHMRC, Maros Elsik, 2007–2008, \$43,732

Transition of Cabrini colorectal surgical database to a web-based platform, Cabrini Health Institute, C Reid, 2007–2008, \$66,000

Translation of evidence-based research. Monash University infrastructure and establishment grant, HJ Teede, 2006–2009, \$150,000

Treatment and prevention of bacterial vaginosis. NHMRC Public Health (Australia) Fellowship: C Bradshaw, 2007–2010, \$83,500

Use of adult mesenchymal precursor cells in the treatment of heart failure – novel experimental strategies, immunomodulatory properties and cost-efficacy. National Heart Foundation Scholarship, H Zimmet, 2006–2008, \$92,082

Using conversational computer technology to improve diabetes management: A randomised controlled trial NHMRC Project Grant, B Oldenburg 2007–2010, \$604,464

Using data to improve quality of health care, NHMRC Health Services Research Grant, Peter Cameron, 2007–2011, \$2,629,000

Victorian Orthopaedic Trauma Outcomes Registry (VOTOR): Evaluation and Monitoring of Treatment Effectiveness across Victorian Hospitals, Transport Accident Commission Health Research, Research Grant, Peter Cameron, 2007–2008, \$300,000

Vivid Portable Echocardiograph. Monash Equipment Grant. CI H Krum, J McNeil, C Reid, A Tonkin, 2008, \$180,920

VIVID portable cardiac ultrasound, NHMRC, Equipment, Henry Krum, 2008, \$209,642

Vytorin treating uncontrolled lipids (VYTUL study). Merck, Sharp and Dohme (Australia) Pty Ltd Contract Research, CI C Reid, 2006–2008, \$454,896



Steve Galina, Alfred ICU nurse, collaborating with ANZIC-RC.

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[www.med.monash.edu.au/epidemiology/publications](http://www.med.monash.edu.au/epidemiology/publications)

### 1. Peer-reviewed articles

Absetz, P., Valve, R., Oldenburg, B.F., Heinonen, H., Nissinen, A., Fogelhom, M., *et al* (2008). Outcomes of diabetes prevention study partly achieved by lifestyle intervention. *Suomen Laakarilehti*, 22, 2065–2070.

Ajani, A. E., Reid, C. M., Duffy, S. J., Andrianopoulos, N., Lefkovits, J., Black, A., *et al* (2008). Outcomes after percutaneous coronary intervention in contemporary Australian practice: Insights from a large multicentre registry. *Medical Journal of Australia*, 189(8), 423–428.

Allen, K., Guy, R., Leslie, D., Goller, J., Medland, N., Roth, N., *et al* (2008). The rise of infectious syphilis in Victoria and the impact of enhanced clinical testing. *Australian and New Zealand Journal of Public Health*, 32(1), 38–42.

Anderson, B., Kelly, A.M., Kerr, D., Clooney, M., and Jolley D. (2008). Impact of patient and environmental factors on capillary refill time in adults. *American Journal of Emergency Medicine*, 26(1), 62–65.

Anderson, B., Kelly, A.M., Kerr, D., and Jolley, D. (2008). Capillary refill time in adults has poor inter-observer agreement. *Hong Kong Journal of Emergency Medicine*, 15(2), 71–74.

Andrew, N. E., Gabbe, B. J., Wolfe, R., Williamson, O. D., Richardson, M. D., Edwards, E. R., *et al* (2008). Twelve-month outcomes of serious orthopaedic sport and active recreation-related injuries admitted to level 1 trauma centres in Melbourne Australia. *Clinical Journal of Sport Medicine*, 18(3), 87–393.

Atkins, B. (2008). Limited knowledge of kidney disease in a survey of AusDiab study participants. *Medical Journal of Australia*, 188(4), 204–208.

Bardy, G. H., Lee, K. L., Mark, D. B., Poole, J. E., Toff, W. D., Tonkin, A. M., *et al* (2008). Home use of automated external defibrillators for sudden cardiac arrest. *New England Journal of Medicine*, 358(17), 1793–1804.

Bardy, G. H., Lee, K. L., Mark, D. B., Poole, J. E., Toff, W. D., Tonkin, A. M., *et al* (2008). Rationale and design of the Home Automatic defibrillator Trial (HAT). *American Heart Journal*, 155(3), 445–454.

Bayliss, J., Bailey, M., Leet, A., Stein, A. N., Thomson, N. M., and McLean, C. A. (2008). Late onset antibody-mediated rejection and endothelial localization of vascular endothelial growth factor are associated with development of cardiac allograft vasculopathy. *Transplantation*, 86(7), 991–997.

Bayliss, J., Maguire, J.A., Bailey, M., Leet, A., Kaye, D., Richardson, M., *et al* (2008). Increased vascular endothelial growth factor mRNA in endomyocardial biopsies from allografts demonstrating severe acute rejection: A longitudinal study. *Transplant Immunology*, 18(3), 264–274.

Bedard, M., Weaver, B., Darzins, P., and Porter, M. (2008). Predicting driving performance in older adults: We are not there yet! *Traffic Injury Prevention*, 9(4), 336–341.

Benke, G., Sim, M., McKenzie, D. P., MacFarlane, E., Del Monaco, A., Hoving, J. L. *et al* (2008). Comparison of first, last, and longest held jobs as surrogates for all jobs in estimating cumulative exposure in cross-sectional studies of work-related asthma. *Annals of Epidemiology*, 18(1), 23–27.

Berry, P., Hanna, F., Teichtahl, A., Wluka, A., Urquhart, D., Bell, R., *et al* (2008). Vastus medialis cross-sectional area is associated with patella defects and bone volume in healthy women. *Osteoarthritis and Cartilage*, 16(8), 956–960.

Bird, D., Oldenburg, B., Wootton, R., and Friedman, R. (2008). Development and evaluation of an automated telephone system for diabetes self-management. *Annals of Behavioural Medicine*, 35(S1), s13.

Blau, S., Robertson, S. D., and Johnstone, M. (2008). Disaster Victim Identification: New applications for post-mortem computed tomography (CT). *Journal of Forensic Sciences*, 53(4), 956–961.

Blazer, D., Gray, G., Hotopf, M., Sim, M. R., Wessley, S., and Smith T. (2008). Acetyl cholinesterase inhibition and Gulf War illnesses: Conclusions are not supported by independent reviews of the same evidence. *PNAS*, 105(17), E20.

Blecher, G., Mitra, B., Cameron, P. A., and Fitzgerald, M. (2008). Failed emergency department disposition to the ward of patients with thoracic injury. *Injury*, 39(5), 586–591.

Bohensky, M. A., Charlton, J., Odell, M., and Keeffe, J. (2008). Implications of vision testing for older driver licensing. *Traffic Injury Prevention*, 9(4), 304–313.

Bostick, G. P., Ferrari, R., Carroll, L. J., Russell, A., Buchbinder, R., Krawciw, D., *et al* (2008). A publication-based survey of beliefs about neck pain from whiplash injury, work-related neck pain, and work-related upper extremity pain. *European Journal of Pain*, 13(3), 300–304.

- Botlero, R., Urquhart, D. M., Davis, S. R., and Bell, R. (2008). Prevalance and incidence of urinary incontinence in women: Review of the literature and investigation of methodological issues Internation. *Journal of Urology*, 15(3), 230–234.
- Bradshaw, C., Chen, M. Y., and Fairley, C. K. (2008). Persistence of mycoplasma genitalium following azithromycin therapy. *PLoS One*, 3(11), e3618.
- Bradshaw, C., Fairley, C. K., and Tabrizi, S. N. (2008). Commentary on 'Validation of COBAS Taqman CT for the detection of chlamydia trachomatis in vulvo-vaginal swabs'. *Sexually Transmitted Infections*, 84(4), 278–279.
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- Brand, C. A., Cameron, P., Greenberg, P. B., and Scott, I. A. (2008). Health services under siege: the case for clinical process redesign: to the editor. *Medical Journal of Australia*, 189(4), 238–240.
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- Brennan, S., Pasco, J. A., Urquhart, D. M., Oldenburg, B. F., Hanna, F., and Wluka, A. E. (2008). The association between socioeconomic status and osteoporotic fracture in population-based adults: a systematic review. *Osteoporosis International*, 20(9), 1487–1497.
- Brown, F., Hill, P., and Atkins, R. (2008). Systemic lupus erythematosus nephritis. *Glomerular diseases*, 419–441.
- Brown, W.A., Burton, P.R., Anderson, M., Korin, A., Dixon, J.B., Hebbard, G., et al (2008). Symmetrical pouch dilatation after laparoscopic adjustable gastric banding: incidence and management. *Obes Surg*, 18(9), 1104–1108.
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Dr Bernadette Hickey  
Dr Morio Iino  
Mr Xiao Pan  
Dr Pornwalee Porapakkham  
Dr Pramote Porapakkham  
Dr Penelope Weller  
Dr Yaxu (Dorcas) Zhang (China)

## Honorary staff 2008

### Honorary Professors

Nicholas Crofts; MBBS, MPH, FAFPHM  
Mark Elwood; BSc(Hons), MBBCh, SM,MD, DSc, MBA, FRCP, FAFP  
Kit Fairley; MBBS, FRACP, FAFPHM, Ph D, FACHSHM  
Graham Giles; CertEd, BS, MS, PhD  
Lindsay Grayson; MBBS, FRACP, FAFPHM, MD, MSc  
David Hill; AM, PhD  
Steve Hruvey FRSC, MSc, PhD, DSc(Eng), PEng  
George Jelinek  
Allan McLean  
John Mills; SB, MD, FACP, FRACP, AFRCPA  
Rob Moodie; MBBS, MPH, F(FPHM)RACP, FRACGP, FAIM  
Edmund Mulholland  
John Reeder  
Bin Nordin Rusli  
Richard Southby; PhD, MPA, FCHSE, FCLM (Hon), FFPH, FRSM, FRIPH  
Simon Stewart; BA, RN, BN, GradDipEd, PhD  
John Zalcborg; MBBS, PhD, FRACP, MRACMA, GAICD

### Honorary Adjunct Professors

John Catford; MA, MSc, MB BChir, DM, DCH, FFPH, FRCP, FAFPHM,  
FIPAA, FAICD  
Andrew Tonkin; MBBS, MD, MRACP, FRACP

### Honorary Associate Professors

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Simon Fisher; MBBS, MBA  
Chris Gray; PhD  
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 Bruce Levy; BEc, LLB  
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 Susan Montgomery  
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 Samantha Rizak  
 Mark Stoove  
 Julie Yallop; NZRN, PhD

### Honorary senior lecturers

Campbell Aitken; PhD, BSc(Hons)  
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 John Amarena; FRACP  
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Dr James Cui  
Dr Beverley Copnell

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Mr Craig Fry

## Lecturer

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Anastasia Adrahtas, Research Assistant, Clinical Pharmacology, DEPM.

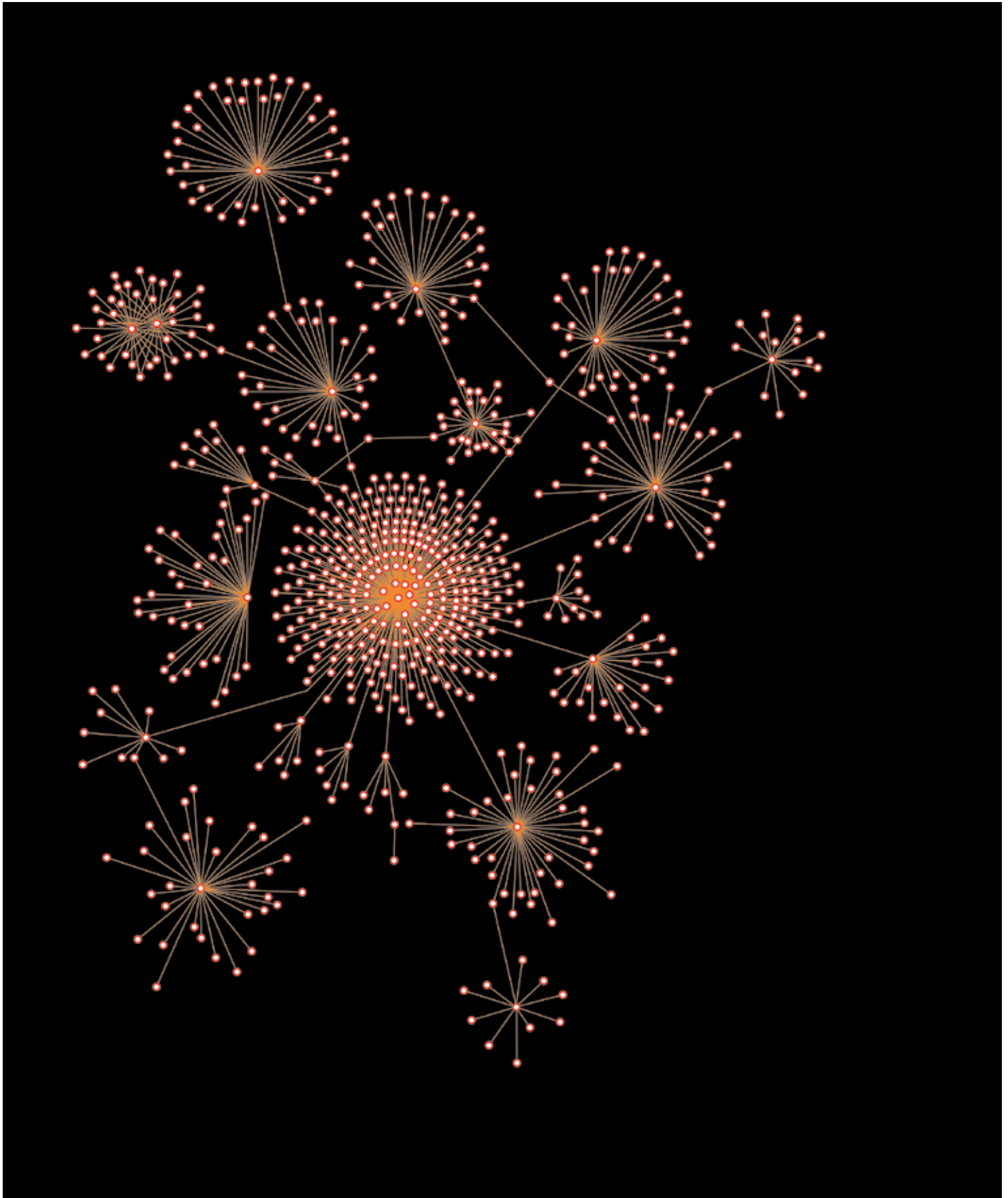


Illustration derived from a model of infection transmission.