



annual report
2008

discovery for a healthy tomorrow





The Menzies School of Health Research was established in 1985 as a body corporate of the Northern Territory (NT) Government under the *Menzies School of Health Research Act 1985*. This Act was amended in 2004 to formalise the relationship with Charles Darwin University (CDU). Menzies is now a school within CDU's Institute of Advanced Studies.

In the spirit of respect, the Menzies School of Health Research acknowledges the people and elders of the Aboriginal and Torres Strait Islander Nations, who are the Traditional Owners of the land and seas of Australia.

For the purposes of this document, 'Indigenous' refers to Australia's Aboriginal and Torres Strait Islander peoples.

Aboriginal and Torres Strait Islander peoples please be advised that this publication may contain images of deceased persons.



contents

Who we are and what we do...	4	International Health Division	33
Where and how we work	5	Preventable Chronic Diseases Division	39
Menzies Strategic Plan	6	Services, Systems and Society Division	45
Vision	7	Tropical and Emerging Infectious Diseases Division	51
Values	7	Education and Training Division	57
Goals	7	Corporate Services Division	63
The Year at a Glance	8	Menzies and the Community	71
Financial and Corporate Overview	12	Governance	72
A Message from the Chair	14	Honorary Appointees	75
A Message from the Director	16	Research Funding	76
A Message from the Indigenous Development Unit	18	Publications	84
Child Health Division	21	Professional Activities	92
Healing and Resilience Division	27	Collaborators	96

who we are and what we do...

Through scientific excellence, education and research the team at Menzies is discovering ways to reduce the impact of disease and improve the health and well-being of people living in Australia and beyond.

As the nation's leader in Indigenous and tropical health research, our discoveries are being used to better prevent, treat and diagnose disease. Our researchers are also making a difference by showing how the social and physical environments in which we live and in which health care is delivered can be improved for better health outcomes.

The problems associated with poor health and disease don't stop at international borders – that is why Menzies' researchers work with governments and communities in our region and across the globe to offer their expertise and contribute our unique perspective gained from over twenty years of ground-breaking research.

At Menzies we are passionate about using our unique knowledge and solutions to discover a healthy tomorrow for all.

Working within our Divisions our expertise includes:

- **Child Health** – we are working to combat ear, lung and skin infections that affect the healthy development of Indigenous children and are focusing on the links between health and education from pre-birth to leaving school.
- **Education and Training** – we are training the researchers, clinicians and policy makers of the future to help to improve the quality of life of disadvantaged people across our region.
- **Healing and Resilience** – our researchers are helping to prevent, diagnose and treat mental illness and substance misuse in Indigenous people.
- **International Health** – we are world leaders in research into major health problems in our region including rheumatic heart disease, malaria and tuberculosis.
- **Preventable Chronic Disease** – we are working to discover the causes of chronic disease including diabetes, heart and kidney disease, and find the best ways to diagnose and prevent them.
- **Services, Systems and Society** – our researchers are finding out what we are doing right and what can be changed so we can improve the health care system and the social and physical environments in which people live and in which health care is delivered.
- **Tropical and Emerging Infectious Diseases** – the Menzies team are unearthing new health threats so we can improve treatments, prevent the spread of disease and help develop vaccines.



where and how we work



With its main base on the Royal Darwin Hospital campus in Darwin, Northern Territory, Menzies employs over 200 staff, a significant proportion of whom are Indigenous. We also operate a smaller unit in Alice Springs and have a joint facility with the Indonesian Department of Health in Timika, Indonesia.

At Menzies we have world-class laboratory facilities where we conduct ground-breaking research including analysis of snake venom, soil samples for melioidosis, scabies mite drug resistance, malaria and deadly bacteria.

We work in many Indigenous communities across Australia and our work touches the lives of many. Our researchers are discovering better ways to treat common problems and we are working with local people to help them improve the health of their communities.

Menzies employs some of the nation's best researchers and we are recognised as a regional leader in education and research.

We are using our unique knowledge and know-how to discover solutions and help disadvantaged people around the world.

menzies strategic plan

At the core of the Menzies Strategic Plan is Menzies' commitment to research, education and training, and transfer of research outcomes into policy and practice.

Our research activities continue to be focused on Indigenous health and are housed in six research Divisions – Child Health; Healing and Resilience; International Health; Preventable Chronic Diseases; Services, Systems and Society; and Tropical and Emerging Infectious Diseases.

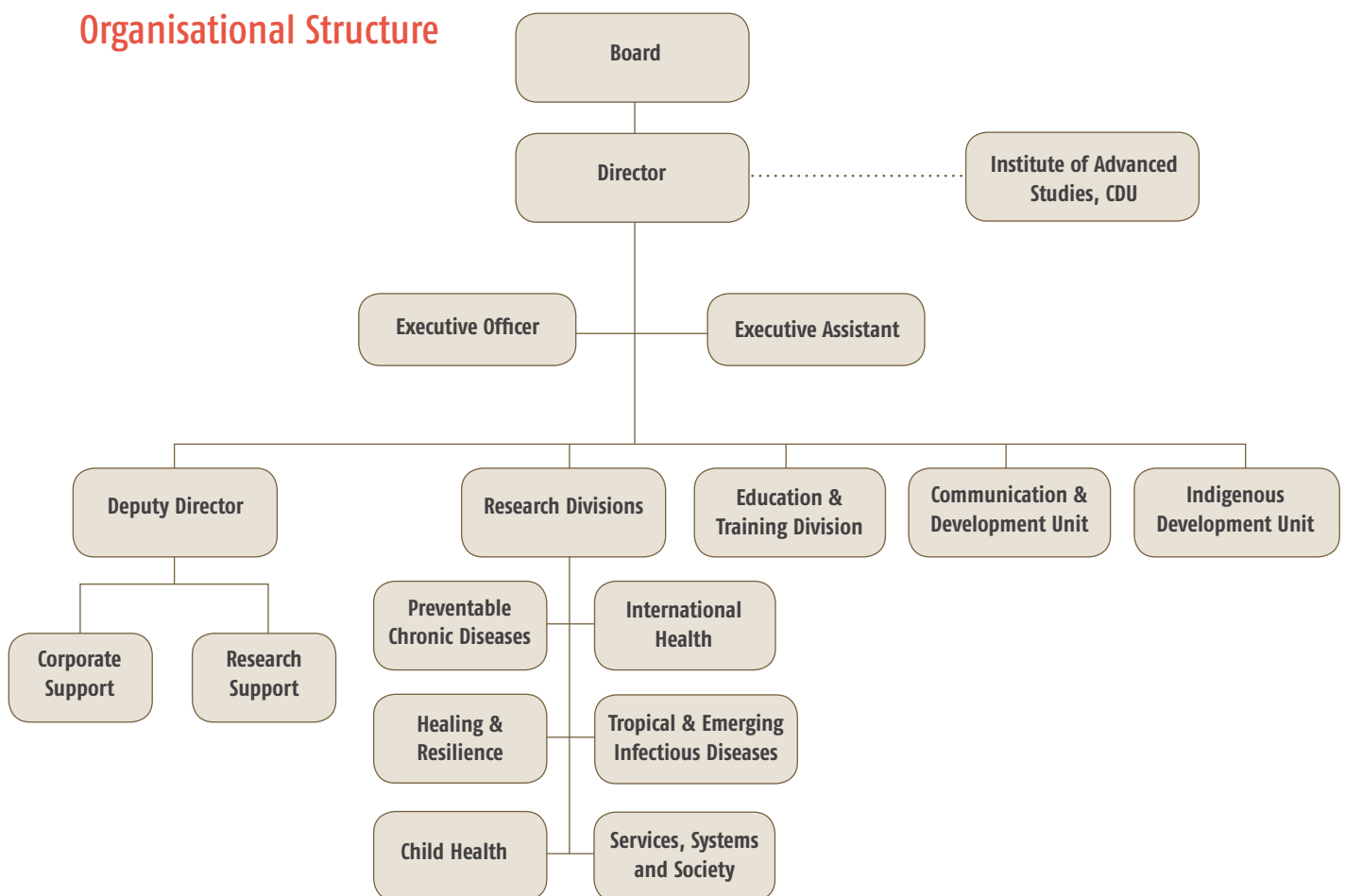
The Strategic Plan also addresses the urgent need to improve recruitment, development and retention of Indigenous staff and research leaders of the future.

The Plan outlines our strong commitment to working hand in hand with Indigenous communities through the establishment of community based 'Research Hubs' and the development of a Menzies Indigenous Development Unit.

Health education and training will continue to be central to everything we do and the Plan outlines our commitment to not only broadening the range and scope of the courses on offer, but also increasing the numbers of students enrolled at all levels, particularly Indigenous students.

There are many challenges and opportunities over the next few years and the Menzies Strategic Plan is a blueprint to enable the Board and staff of Menzies to achieve our vision and goals for research, education and Indigenous development and capacity building.

Organisational Structure





vision

To improve health outcomes particularly for Aboriginal and Torres Strait Islander communities and disadvantaged populations through excellence and leadership in research and training.

values

Innovation

To be willing to take risks, embrace new approaches, and pursue ground-breaking research.

Responsiveness

To be responsive to health needs and shared priorities, particularly of Indigenous Australians, disadvantaged populations and others living in central and northern Australia.

Quality

To be excellent in everything we do.

Collaboration

To work in partnership with communities, other researchers, policy-makers, and those who deliver health and other services.

Integrity

To act with honesty and according to our values.

Relevance

To concentrate on solving problems that matter, whether they be big or small.

Building research capacity

To foster and develop researchers of the future, with a particular emphasis on Indigenous researchers.

Communication

To undertake an ongoing dialogue with partners and stakeholders during the research process, from conception to completion.

goals

To meet the challenges of today and tomorrow, Menzies has set out four strategic goals in our Strategic Plan. These are:

Goal 1

Excellence in health research.

Goal 2

Excellence in health education and training.

Goal 3

Strengthened capacity of researchers, particularly Indigenous researchers, and improved engagement of Indigenous communities across the research process.

Goal 4

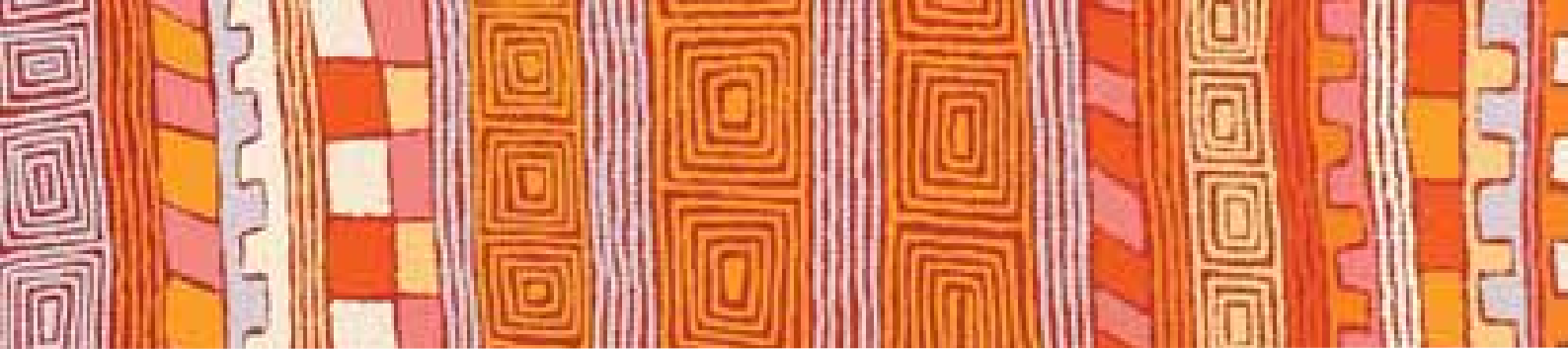
Improved income generation and services to support research and education activities.

the year at a glance

Research and Education Highlights

- It was an outstanding year for NHMRC success with a total of almost \$7.5 million from project grants. This is an astounding 50 per cent success rate and the best performance by the Menzies team ever.
- Six Child Health Division projects were allocated funds from the \$250,000 raised from the Ochre art auction.
- Four Menzies projects were successful in Channel 7 Children's Research Foundation grants totalling almost \$200,000.
- The International Health Division received confirmation that Menzies was one of three organisations tasked by AusAID to form a 'Knowledge Hub' in Women's and Children's Health. This Hub comes with core funding to allow us to build capacity in this area and build a centre of expertise which will be recognised across the world.
- Significant research was published by Menzies International Health Division on the association of *Plasmodium vivax* malaria with severe and fatal disease and also its importance in pregnancy.
- The International Health Division received \$2.1 million core funding from AusAID to support the Timika Research Facility in Timika, Papua, Indonesia.
- Researchers from the International Health Division identified a novel mechanism of endothelial activation which predicts death in severe malaria and commenced a clinical trial of a nutritional intervention to improve blood vessel function and outcomes.
- Child Health Division established an Indigenous Reference Group with support from Menzies' Indigenous Development Unit. This group will help to guide child health research priorities and advise the Division on cultural and ethical issues.
- The establishment of a dedicated 'Substance Misuse' unit within the Healing and Resilience Division will enhance the capacity of Menzies to respond to key issues in substance misuse including evaluation of alcohol management plans and development of new understanding related to community-wide interventions. This unit has a strong partnership with the NT Government and is well positioned to influence policy and practice.





- Publication of two new educational flipcharts for substance misuse titled 'When Boys and Men Sniff' and 'When Girls and Women Sniff'.
- The Healing & Resilience Division received a funding boost from the NT Community Benefit Fund to continue to explore community attitudes to gambling in NT remote communities. This work will commence in 2009.
- Completion of qualitative research about Aboriginal perceptions of why people smoke and quit, and of effectiveness and acceptability of different tobacco control activities. This research found that there is a complex interplay of historical, social, cultural, psychological and physiological factors which influence the smoking behaviours of Indigenous adults in remote communities.
- Work with Outback Stores on tobacco control led to their decision to remove tobacco from public display in all their stores. Outback Stores are now amongst the best in the country in protecting children from this form of tobacco advertising.
- After many years of supporting Galiwin'ku community with health promotion initiatives, Menzies researchers completed a three year community development project as part of the Australian Government Building Healthy Communities Initiative. This long standing partnership with Galiwin'ku community has contributed to building local research capacity and a strong relationship with the community that has assisted many other research projects within the community and beyond.
- A Business Case for a proposed 'National Centre for Quality Improvement in Indigenous Primary Health Care' was completed, and funding partners will be secured in 2009.
- A study published by the Services, Systems and Society Division found that despite the good level of access to primary health services for Aboriginal children living in remote areas of the NT, their health outcomes were significantly worse than for Aboriginal children living in other regional areas of Australia.
- The 'Implementing the Aboriginal and Torres Strait Islander Adult Health Check' project included a community intervention focused on tobacco cessation. This successful intervention decreased tobacco consumption by 8 per cent.
- A review of the incidence, aetiology and outcomes of cancer for Indigenous Australians by members of the Services, Systems and Society Division was published in the Lancet Oncology. The paper described that patterns of Indigenous cancer incidence and mortality are largely explained by the higher prevalence of risk factors, most notably smoking, and by inadequate health-system performance.
- Development of a new 'high resolution melt' – based method for the genetic fingerprinting of bacteria. This has been proven particularly successful and applied to a range of bacterial pathogens including *Staphylococcus aureus* (golden staph) and group A *Streptococcus*.
- The determination of a unique evolutionary pathway for the newly discovered *Staphylococcus* lineage 'CC75' that is prevalent in the Northern Territory.
- Publication of research describing a growing problem with community-associated Methicillin-resistant *Staphylococcus aureus* (MRSA) in Aboriginal communities across northern Australia. Researchers believe the growing epidemic is particularly related to continuing poor skin health and poor quality and overcrowded housing.
- A new collaboration was established with the Katherine West Health Board that saw the commencement of web-based teaching sessions to staff of remote Aboriginal communities.
- More than 25 Menzies staff members were involved in teaching and tutoring for coursework and short course activities – more than ever before.

the year at a glance

People and Community Highlights

- There were several senior and significant appointments and departures during the course of the year. Assoc Professor Phil Giffard took up the newly created post of Head of Laboratory Science. Assoc Professor Adam Tomison was appointed as Head of Child Protection Research. Professor Sven Silburn was appointed as Leader for Early Learning and Parenting program and the Transforming Indigenous Education initiative.
- Dr Kate Senior moved from Menzies' Education and Training Division to take up the role of Head of the newly formed Substance Misuse Unit and long term collaborator of Menzies, Ms Louise Clark, was appointed as Head of the Education and Training Unit and will take up her position in early 2009.
- Professor John Condon stepped down from the position of Deputy Director but thankfully remains part of the Menzies team. Professor Ross Spark took up the Deputy Director post in late 2008.
- Menzies' Director, Professor Jonathan Carapetis participated in the Prime Minister's 20:20 Summit.
- Dr Ngiare Brown departed Menzies to take up a position as Co-Director at the Poche Institute for Indigenous Health at the University of Sydney.
- Professor Anne Chang and Assoc Professor Joan Cunningham were successful in NHMRC Fellowship applications and Dr Kerry-Ann O'Grady and Dr Sue Skull were awarded NHMRC Training Fellowships.
- Three Scholarships – the Menzies Scholarship, Gurdiminda Indigenous Health Scholarship and the Alan Walker Scholarship, were established for students showing exceptional research promise in their fields of study. Recipients of the Gurdiminda and Alan Walker Scholarships were Dr Jaqui Hughes and Mr Tom Snelling.
- Ms Leisa McCarthy won the Ian Potter Indigenous Research Fellowship and commenced her PhD with the Preventable Chronic Diseases Division.
- Mr Mark Mayo was the recipient of the 2008 Ryan Family Prize for his work in Melioidosis research.
- Dr Alice Rumbold and Dr Shelley Walton were shortlisted as finalists in the NT Research and Innovation Awards in the 'Next Generation' and 'Tropical Knowledge' categories.
- Mrs Sue Hutton was named as one of five recipients in the 2008 Tribute to Territory Women – qualifying Sue as an official Living Legend of the NT.
- Two long term Menzies employees celebrate their 20 year anniversaries – congratulations to Gabby Falls and Amanda Leach.
- Menzies' Director, Professor Jonathan Carapetis, was named a member of the Chief Minister's '2030' Steering Committee which has been charged with developing a 20 year strategic plan for the NT.



Corporate Highlights

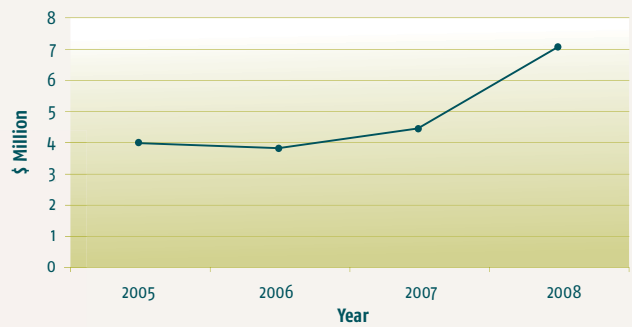
- The value of funding from NHMRC, our main funding body, increased by a massive 58 per cent from 2007 to over \$7m, helping to increase the organisation's total income by 11.5 per cent from 2007, to more than \$27 million.
- Professor Helen Garnett stood down from the Menzies Board following her retirement from her position of Vice Chancellor of CDU. The Board welcomed her replacement, Professor Barney Glover, in early 2009.
- Menzies launched its first ever print newsletter, 'Discover Menzies', with excellent feedback from the community.
- The Communications and Development team helped to raise a total of \$626,360 for Menzies in cash and in kind donations. This exceeded the fundraising target of \$213,000 by \$413,360.
- The Inaugural 'Ochre' art auction raised over \$250,000 for Indigenous child health research at Menzies.
- The 2008 Menzies Oration was successfully delivered by World Vision Australia CEO, Rev Tim Costello. Over 250 people were in attendance at the new Darwin Convention Centre.
- A successful event was held on the Tiwi Islands in which Menzies staff took the opportunity to thank the Tiwi people for their involvement and assistance over the past 20 years.
- The year saw an overall staff growth rate of 15 per cent. However, this increase does not accurately depict the recruitment activity level for the year. One hundred and eighteen new employees commenced at Menzies during 2008 – almost ten new employees per month.
- The Menzies Development Committee was established. A Committee of the Board, the Development Committee has the role of enhancing the profile of Menzies' work in the general community and overseeing fundraising activities.
- This year also saw the beginning of a three year partnership with Hawthorn Football Club and the Rioli Fund for Aboriginal Health, in which Menzies is one of their community partners.
- Menzies media activity increased during 2008 with 361 mentions of Menzies, Ochre and the Rioli Fund for Aboriginal Health. This is a 60 per cent increase year on year and the quality of the coverage received was consistently high.
- Planning commenced for the forthcoming Menzies Quinquennial Review which is due to take place in early 2009.
- The Executive Team took part in a 'Progress against the Strategic Plan' planning retreat to report on progress and look forward to 2009. Progress was reported to the Board.
- Plans were developed to move over 70 Menzies staff to a satellite office in Winnellie, Darwin to allow for more growth during 2009.



financial and corporate overview



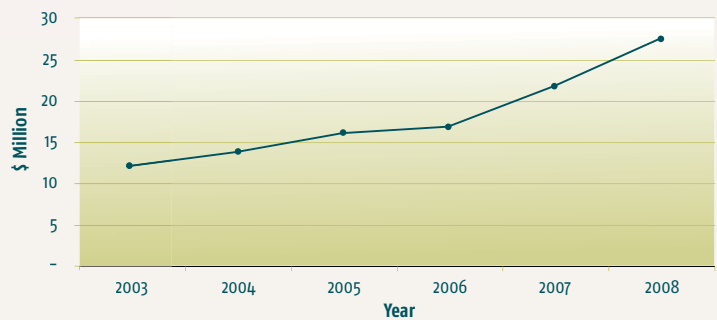
VALUE OF NHMRC FUNDING

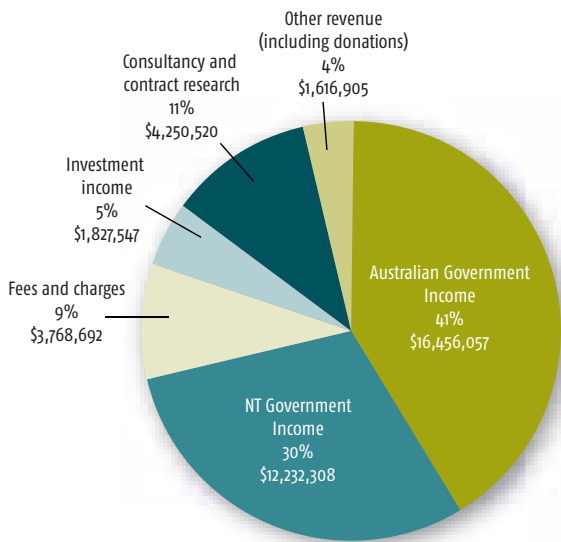


NUMBER OF STAFF (FTE)

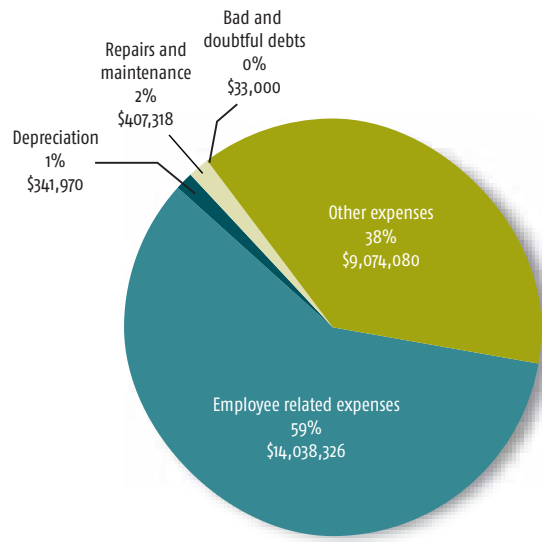


INCOME
(does not include building grants)





INCOME

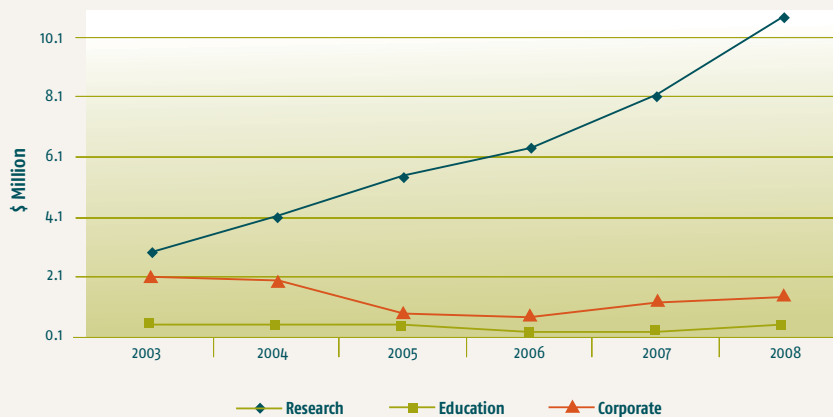


EXPENSES

INCOME & EXPENSE 2003 TO 2008



EMPLOYEE EXPENSE BY CATEGORY FROM 2003 TO 2008



a message from the chair

For the last few years Menzies has been in an extraordinary growth phase. Ever since the completion of its 2007 – 2011 Strategic Plan the organisation has outstripped all expectations. Our growth is a means towards improving health outcomes, particularly for Aboriginal and Torres Strait Islander communities, not an end in itself; but it has helped to shape a year where the Menzies Board is extremely pleased with the achievements of the Director, Professor Jonathan Carapetis, his senior staff and Menzies as a whole.

The value of funding from the National Health and Medical Research Council, our main funding body, has increased by a massive 58 per cent from 2007 to \$7m, helping to increase the organisation's total income by 11.5 per cent from 2007, to more than \$27 million. This has provided the resources for some significant achievements described elsewhere in this report, enabling Menzies to remain the nation's leader in Indigenous health, as well as a major contributor to tropical health, health education and training, and international health.

This year has seen a continuation of the Federal Government's Northern Territory Emergency Response, accompanied by parallel responses from the Northern Territory Government. One of Menzies' strengths is its desire and ability to translate research into changes to policy and practice. These Government programs have provided an important opportunity for Menzies to partner with Governments to provide the evidence base for, and monitor and evaluate, Government activity in Indigenous health and education.

Three Australian Government reviews have the potential to significantly affect the policy environment within which Menzies works. *Venturous Australia: Building Strength in Innovation* (the Cutler Review of the National Innovation System), the *Bradley Review of Australian Higher Education*, and *O'Kane's Collaborating to a Purpose: Review of the Cooperative Research Centre Program* all contain recommendations relevant to Menzies' operating environment. Particularly of relevance is the very positive recommendation that Government grants in future fund the full cost of research. This year will also see decisions on the future of the Cooperative Research Centre for Aboriginal Health (CRAH), of which Menzies is a core partner and Centre agent, after the result of the CRAH's funding bid to extend for another five years is known.

Other events external to Menzies have been less positive. The global financial crisis has emerged as a crucial factor in our forward planning, as it has with everyone. Menzies will need to prepare for the likelihood of reduced research funds from both Governments and the community.

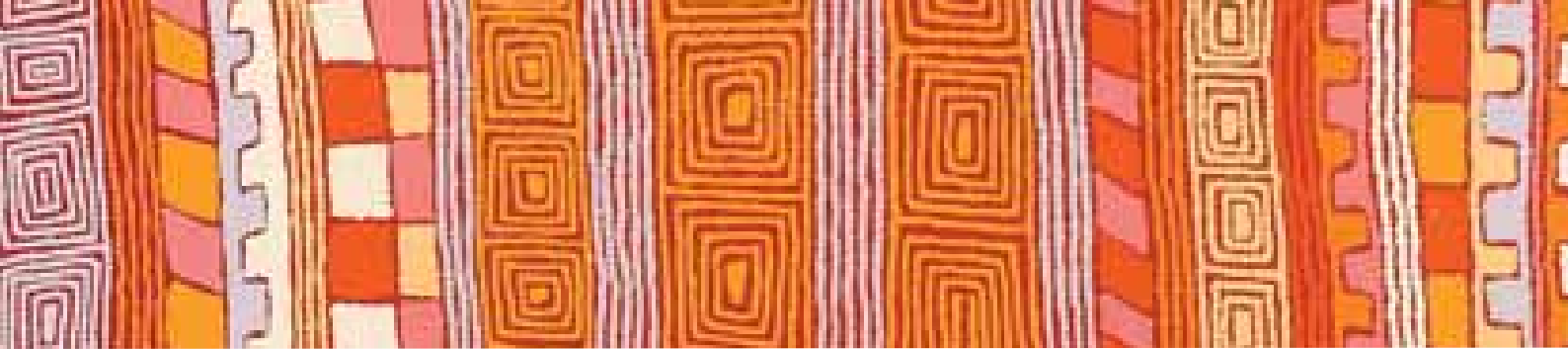
The Menzies Board has an outcomes-focused orientation, and is pleased to be able to focus on a clearly articulated Strategic Plan (for 2007–2011) and use it as a living document, to not only plan ahead but to monitor and assess the performance of the organisation.

The Board is preparing for Menzies' external review of academic and scientific activities which is to take place in early 2009. We look forward to receiving independent external advice on the performance of our research and education divisions.

The Menzies Board established a Development Committee in 2008. The Committee's role is to enhance the profile of Menzies' work in the general community, and to oversee its fundraising activities. In no small part thanks to this Committee, Menzies continues its innovations in the fundraising sphere.

This year Menzies held a unique fundraising event called 'Ochre – Supporting Indigenous Health Through Art', which raised over \$250 000 towards our child health research agenda. Ochre was also highly successful in raising awareness about Indigenous child health amongst some of Melbourne's most prominent and generous philanthropists. Mr David Smorgon OAM was Ambassador for the event, and MC for the evening was Mr Ray Martin, a long time friend of Menzies.

Ochre took a very unique approach to the way in which it acquired art works for the event. Rather than asking for artists and performers to donate their works or services for free, Menzies secured sponsorship and donations to allow us to purchase artworks direct from remote community art centres therefore ensuring that the money is kept in the local economy and no agents or commercial gallery fees were paid.



This year also saw the beginning of a three year partnership with Hawthorn Football Club and the Rioli Fund for Aboriginal Health, in which Menzies is one of their community partners.

There have been two departures from the Board this year; Ms Roslynn Bracher unfortunately left us due to her increasing work and travel commitments, and Professor Helen Garnett retired as Vice Chancellor of Charles Darwin University and from the Menzies Board. We also said farewell to the outgoing staff representative on the Board, Mr Trevor Hopps. On behalf of the Board I would like to thank them all for their contributions and wish them well for the future.

The Board has tightened up a number of its processes in 2008, with risk assessment procedures, a Board Charter, an annual Board calendar and annual Board evaluation processes now engaged.

On behalf of the Board I would like to congratulate Professor Carapetis both personally for his year as Northern Territorian of the Year; and together with all Menzies' staff and students for their continued outstanding contributions to improving the health outcomes of Indigenous and other Australians and those of our near neighbours in the Pacific and South East Asia. Many thanks also to the numerous community and other partners across the country and beyond. The new year ahead is full of challenges and uncertainties, as well as excitement; what we can know for sure is that the need for our work will continue.



Professor Simon Maddocks, Chair

a message from the director

Each year that I write this message I talk of unprecedented growth and success and this year is no different. It has been quite a year for Menzies with growth in all areas of the organisation. From people to projects, budgets to buildings, 2008 has seen the rewards and challenges that come with success.

I am extremely proud of the esteem in which Menzies research is held by the wider community and the recognition which is bestowed upon Menzies and its team of highly trained and qualified staff. It is a credit to the staff and Board that we have come through this period of growth as a stronger and more cohesive organisation with a clear focus and an achievable vision.

There were plenty of comings and goings in 2008 to keep the Menzies Human Resources Department busy with several senior and significant appointments and departures during the course of the year.

Associate Professor Phil Giffard took up the newly created post of Head of Laboratory Science and Associate Professor Adam Tomison was appointed as Head of Child Protection Research. Professor Sven Silburn was appointed as Professor of Education and Child Development (bringing to fruition our strategy of moving Menzies' child health research into the education domain) and Dr Kate Senior moved from our Education and Training Division to take up the role of Head of the newly formed Substance Misuse Unit. Long term collaborator of Menzies, Ms Louise Clark, was appointed as Head of the Education and Training Unit. A number of these people will begin their appointments in early 2009.

Professor John Condon stepped down from the position of Deputy Director but thankfully remains part of the Menzies team and Professor Ross Spark took up the Deputy Director post in late 2008. We also sadly farewell Associate Professor Ngiare Brown, who moved on to become Co-Director of the new Poche Centre for Indigenous Health at the University of Sydney. Ngiare joins the legion of Menzies alumni who have gone on to positions of leadership and considerable influence around this country.

All in all, the year saw a staff growth rate of 15 per cent. However, this increase does not accurately depict the recruitment activity level for the year. One hundred and eighteen new employees commenced at Menzies during 2008 – almost ten new employees per month.

It was an outstanding year for NHMRC success with a total of almost \$7.5 million from new project grants. This represents an astounding 52 per cent success rate – by far the best performance by the Menzies team ever. The competitive grants process is not an easy journey and this success is not a coincidence. It is testament to the hard work and high quality of Menzies researchers and support staff, particularly our Research Administration team.

Notable research outcomes for the year included the publication of data by our International Health Division confirming that a strain of malaria thought previously to be 'benign' was potentially fatal. The research, conducted at the joint Menzies/ Indonesian Department of Health 'Timika Research Station' in Papua, Indonesia has shown that *P. vivax* is far from benign, but is responsible for a significant amount of illness with high rates of severe disease and death.

Qualitative research was published by the Preventable Chronic Diseases Division about Aboriginal perceptions of why people smoke and quit, and of effectiveness and acceptability of different tobacco control activities. This research found that there is a complex interplay of historical, social, cultural, psychological and physiological factors which influence the smoking behaviours of Indigenous adults in remote communities.

Researchers from the Tropical and Emerging Infectious Diseases Division reported a growing problem with community-acquired Methicillin-resistant *Staphylococcus aureus* (MRSA) in Aboriginal communities across northern Australia. Researchers believe the growing epidemic is particularly related to continuing poor skin health and poor quality and overcrowded housing.

A review of the incidence, aetiology and outcomes of cancer for Indigenous Australians was published in the Lancet Oncology by members of our Services, Systems and Society Division. The paper described that patterns of Indigenous cancer incidence and mortality are largely explained by the higher prevalence of risk factors, most notably smoking, and by inadequate health-system performance.

The newly established 'Antibiotic resistance' team led by Assoc Professor Phil Giffard has developed a new 'high resolution melt'-based method for the genetic fingerprinting of bacteria. This has been proven particularly successful and applied to a range of bacterial pathogens including *Staphylococcus aureus* (golden staph) and group A *Streptococcus*.

The year saw a number of prizes and awards bestowed upon Menzies staff and once again Menzies researchers were invited to speak at some of the world's most prestigious scientific meetings and conferences. Particularly worth noting was our strong presence at the 'Sixth International Symposium on Pneumococci & Pneumococcal Diseases (ISPPD6)' in Iceland.



Other noteworthy awards include Mr Mark Mayo who was the recipient of the 2008 Ryan Family Prize. Dr Alice Rumbold and Dr Shelley Walton were shortlisted as finalists in the NT Research and Innovation Awards in the 'Next Generation' and 'Tropical Knowledge' categories. And Mrs Sue Hutton was named as one of five recipients in the 2008 Tribute to Territory Women – qualifying Sue as an official Living Legend of the NT.

One of my personal highlights of the year was the presentation of 'Healthy Skin Training Certificates' to 15 women from Eastern Arnhem Land at the Menzies AGM in May. I think that all those present would agree that this marked a critical moment in Menzies' history. Providing our collaborators in Aboriginal communities with accredited training qualifications must surely become standard practice, and we are instituting processes to ensure that this continues to happen.

We were also very privileged when several ladies from Eastern Arnhem Land were able to attend the inaugural 'Ochre' art auction in Melbourne which raised over \$250,000 for Menzies' child health research. The event, the biggest and best in Menzies' history, was a huge success thanks to the hard work and dedication of Mr David Smorgon OAM and the Ochre Committee.

Several community and corporate partnerships were developed during 2008 resulting in a highly successful year on the fundraising front. Over \$600,000 was raised for Menzies in cash and in kind donations. That's a staggering 500 per cent increase on the previous year. I would like to take this opportunity to thank all supporters, donors, funders and collaborators for their ongoing support and contributions without which we would not be able to carry on conducting our ground-breaking research.

Menzies' links with Indigenous people, organisations and communities continued to strengthen during 2008 and we were very pleased to be able to specifically thank the Tiwi people during a special 'thank you' event held on Bathurst Island in conjunction with the National Rugby League. We very much value the relationships we have with the Tiwi Islanders and all of the other communities in which we work.

One of the most moving and poignant moments of 2008 for everyone at Menzies was the Prime Minister's official apology to the Stolen Generations. At Menzies, we marked the occasion with a morning tea organised by our Indigenous staff and many of those present recounted stories from their family members.

With a global economic crisis looming in 2009 it will be interesting to see how the political and economic landscape changes over the coming year and how this may affect Menzies and its work.

Looking forward, 2009 will be a time for consolidation for many areas of the organisation. Our aim is to ensure that existing and new research teams have time, space and resources to continue to produce high quality research outcomes and to plan for sustainable productivity into the future. This is not to say that we won't continue to expand into new areas and we are becoming more strategic in our plans to improve the development of Indigenous researchers as well as our engagement with Aboriginal communities. One priority in terms of providing a good environment for research is expansion of our headquarters at the John Mathews building. We are bursting at the seams, and in addition to securing a lease on an office building nearby to accommodate a number of staff in the short to medium term, we hope to begin construction as soon as possible on extensions to the John Mathews Building. Early 2009 will also see Menzies undergo a 'Quinquennial Review' of our scientific and academic activities. We have assembled an excellent team, whose guidance and advice I eagerly await.

This has been one of our best years yet. To everyone involved – staff, students, board and committee members, collaborators and community members who are involved with our wonderful organisation – I thank you for your contributions and I very much look forward to the rewards and challenges that the coming year may bring.

Professor Jonathan Carapetis, Director

a message from the indigenous development unit

It has been another productive year at Menzies, with an emphasis on growth and development. Indigenous staff continue to contribute their unique expertise to a broad range of research programs and projects spanning the spectrum of Menzies' work.

The year included a significant focus on consultation and strategic planning for the Indigenous Development Unit which was undertaken to identify priorities, strengths, gaps and new challenges.

We have accomplished some outstanding outcomes in 2008 which have emphasised the important roles that Indigenous staff play in the organisation both in research and non-research roles and it is evident that Menzies' commitment to supporting and nurturing Indigenous leadership and building expertise in the sector is now paying dividends.

A highlight of the year for me was the success of the 'Doing It Right' workshop on Cultural Protocols for Working in Aboriginal Communities in partnership with Menzies' Education and Training Division. This program has been a resounding success with plans in place for further workshops in 2009.

In May 2008 the Indigenous Development Unit took the opportunity to travel to the Tiwi islands with many Menzies Indigenous and non-Indigenous staff to thank the Tiwi people for their contribution to our work over the past 23 years. This was held in conjunction with a National Rugby League 'tackle health head on' event which included NRL skills clinics for Tiwi kids and the delivery of healthy lifestyle messages in conjunction with a give away of over \$10,000 worth of NRL merchandise.

The Menzies 'Strengthening Indigenous Health Research Capacities' project, funded by the Menzies Foundation, continues to progress well. Menzies have worked hand in hand with the existing research hub at Tangentyere Council in Alice Springs and discussions continue with communities for further hubs which will allow community members to input more into the research needs of their communities.

In partnership with the Ian Potter Foundation, Menzies has created the position of 'Indigenous Research Fellow'. One of the key principles behind the formation of this position was to encourage the development of Indigenous researchers undertaking Indigenous health research. The aim of this fellowship is to allow an Indigenous person with an established professional qualification to experience working in a research environment, and hopefully to encourage them to undertake further studies with a view to a longer-term career in research. The successful 2008 applicant, Ms Leisa McCarthy, has commenced her work within the Preventable Chronic Diseases Division.

During the course of 2008 the Menzies Indigenous Development Unit established an Indigenous Staff Network to provide a framework for enhanced representation, support and participation of its Aboriginal and Torres Strait Islander staff and students.

The Network meets once a month to discuss their involvement in Menzies' activities and provides targeted professional development opportunities for its members. The group also provides an understanding of local Aboriginal history and culture to ensure that research outcomes will be readily accepted by Aboriginal and Torres Strait Islander communities, and ultimately, to improve the health of Aboriginal people.

The Australian Indigenous Doctors Association (AIDA) held its 10th Anniversary Symposium in Darwin in October 2008 with more than 120 Aboriginal and Torres Strait Islander doctors and students in attendance. The Indigenous Development Unit attended the event and took the opportunity to talk to those present about research at Menzies and career opportunities.

Menzies Indigenous staff attended many festivals, open days, careers fairs and other public events throughout the year ensuring that the Menzies' message and Menzies' opportunities were communicated to Indigenous communities, networks and individuals.

I would like to take the opportunity to acknowledge the efforts of our Aboriginal and Torres Strait Islander staff and students, our community partners and their representatives and the Indigenous organisations and individuals who, not only facilitate our research, but are the heart of our culturally rich environment – those who offer us generosity, trust and friendship above and beyond the workplace.



Bilawara Lee
Manager, Menzies Indigenous Development Unit



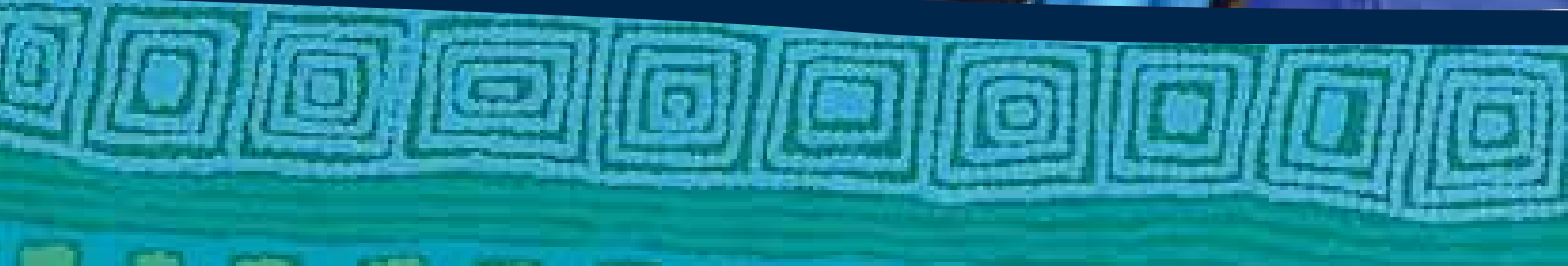
"I would like to take the opportunity to acknowledge the efforts of our Aboriginal and Torres Strait Islander staff and students, our community partners and their representatives and the Indigenous organisations and individuals who, not only facilitate our research, but are the heart of our culturally rich environment – those who offer us generosity, trust and friendship above and beyond the workplace."

Below: Menzies Indigenous Development Unit with Ms O'Donoghue at the AIDA Symposium.





Professor Anne Chang
Divisional Leader, Child Health Division



child health division



The building blocks for good health are laid early in life. That is why Menzies researchers are striving to discover ways to prevent and treat conditions which are affecting the health of Indigenous children.

It's a sad fact that young Indigenous people are more likely to suffer from diseases such as pneumonia and that four in five children in remote Indigenous communities have hearing loss because of severe ear infections. Young Indigenous children are more likely to be hospitalised than non-Indigenous kids, and seven out of every ten Indigenous children can expect to have scabies and skin sores in the first year of their life.

Poor health and poor education are strongly linked. A child suffering from poor nutrition or multiple ear infections will have poor concentration and learning ability which can seriously affect the way they live their lives into the future.

Here at Menzies, we want to help the Indigenous children of today become the healthy adults of tomorrow. Our researchers are discovering better ways to prevent and treat common problems and we are working with local people to help them gain the skills to improve the health of the next generation of Indigenous adults.



child health division

Research Priorities

The aim of the Child Health Division is to bring together existing Menzies' child health research, increase research into immunisation and vaccine-preventable disease and intervention studies to prevent infections and improve management of common diseases affecting Indigenous children.

The Division has continued to develop a new research agenda examining the links between education and health and novel approaches to improving health and developmental outcomes in early childhood.

The landmark Aboriginal Birth Cohort (ABC) study continues to provide unparalleled insights into the links between early childhood experiences and chronic disease in later life. Research into ear, oral, respiratory and skin health continues to be a major focus of the Division's work and a new and exiting research area was added to the Child Health Division's portfolio during 2008 – Child Protection.

Research Projects

Rheumatic Heart Disease

- Screening for rheumatic heart disease in Indigenous children.

Immunisation

- Effectiveness and use of the 23-valent pneumococcal polysaccharide vaccine in Indigenous adolescents and adults.
- Evaluation of the role and function of the PneuMum Study Indigenous Reference Group as a model for conducting research involving children in the Northern Territory.
- PneuMum: a randomised controlled trial of pneumococcal polysaccharide immunisation for Aboriginal and Torres Strait Islander mothers to protect their babies from ear disease.
- TROVE – Case control study of rotavirus vaccine effectiveness in the NT.

Looking Forward

As with many other Divisions across the organisation, 2008 was a period of significant growth for Child Health Division both in terms of people, budgets and projects. Looking ahead to 2009, the Division will focus on consolidating its research agenda and the professional development of existing researchers and support staff to ensure that the Division can continue to deliver relevant, quality research hand in hand with the communities in which it works.



Above: Divisional Head, Professor Anne Chang (first row centre) and the some of the Child Health Division program leaders.

Early Learning & Parenting

- Mobile Preschool Program.
- Developmental Screening Tool Evaluation.

Respiratory Health

- Burden of influenza and other respiratory viruses among Aboriginal children in the Top End.
- Multi-centre Bronchiectasis Study: A collaborative and international study of Bronchiectasis in Indigenous children.
- Multicentre evaluation of a clinical pathway for chronic cough in children – can it improve clinical outcomes?
- Randomised controlled trial of azithromycin to reduce the morbidity of Indigenous and non-Indigenous infants hospitalised with bronchiolitis.



Ear Health

- Azithromycin versus placebo in the treatment of asymptomatic acute otitis media in young Aboriginal children.
- Defining the interaction between respiratory viruses and bacteria as an important cause of acute tympanic membrane perforation in Indigenous infants (VIABLE).
- Implications of nonencapsulated *Streptococcus pneumoniae* carriage for maintenance of antibiotic resistance genes and the efficacy of pneumococcal conjugate vaccine (Prevenar) for pneumococcal disease (SPINICA).
- MICROBIOME – Microbiological investigations of Otitis Media ecology.
- Pneumococcal Epidemiology.
- The Australian Indigenous EarInfoNet – An Ear Health and Hearing Web Resource and Network.
- Mathematical modelling of bacterial carriage in children (MMAPS).

Oral Health

- A community-randomised controlled trial of fluoride varnish application to children's teeth and health promotion to prevent dental decay in Aboriginal pre-school children (Strong Teeth for Little Kids).

ABC

- Aboriginal Birth Cohort Study: from childhood to adulthood.
- ABC Top End Cohort.
- Prevalence of iodine deficiency in NT Aboriginals of reproductive age.

Skin, Strep & Scabies

- Global GAS vaccine based on the M-Protein.
- Filling in the gaps in the healthy skin program – additional laboratory, clinical and epidemiological components.

Highlights of 2008

- The Division appointed Associate Professor Adam Tomison as Head of Child Protection Research. Adam is one of Australia's leading thinkers in child protection and will take up his post in early 2009.
- Professor Sven Silburn was appointed as Head of Early Learning and Parenting Research Program and Transforming Indigenous Education initiative in December 2008.
- It was an outstanding year for successful NHMRC project applications for Divisional staff with 5 projects receiving funding, plus one in collaboration with the Chronic Diseases Division.
- The ABC 'Top End Cohort' project was initiated. This project examined the physical and emotional wellbeing of adolescents born in Darwin between the years of 1987 – 1990. The data collected will help to provide researchers with information about the early determinants of chronic diseases including the consequences of smoking and being overweight in young Australians. It will also give valuable insights into the current state of vascular, renal, metabolic and emotional health in this age group.
- The 2008 Menzies AGM saw a number of 'Healthy Skin Training Program' participants awarded with their certificates.
- A Large contingent of researchers from Child Health Division attended the 'Sixth International Symposium on Pneumococci & Pneumococcal Diseases (ISPPD6)' in Iceland and many were invited to present and submit posters.
- The Strong Teeth for Little Kids Study data collection and final assessments were completed. The Division is now looking to expand this research and hoping to appoint a Research Fellow in Oral Health during 2009.
- Dr Ngiare Brown joined the team early in 2008 and provided invaluable input with child health projects and more. She then departed in September to take up a position as Co-Director at the Poche Institute for Indigenous Health at the University of Sydney.
- Professor Mathu Santosham visited the Division in November to assist with planning a head to head post-licensure trial of alternative pneumococcal conjugate vaccines within the NT.
- Child Health Division established an Indigenous Reference Group with support from Menzies' Indigenous Development Unit.
- Completion of a randomised controlled trial which showed that additional education provided by Indigenous Health Workers improved asthma outcomes in Indigenous children with asthma.

Publications

The Division published 56 papers during 2008. Highlights included (a full list of Child Health Division publications can be found on page 84):

- O'Grady K, Krause V, Andrews R. Immunisation coverage in Australian Indigenous children: Time to move the goal posts. *Vaccine* 2008 (online at: <http://dx.doi.org/10.1016/j.vaccine.2008.09.096>)
- Clucas DB, Carville KS, Connors C, Currie BJ, Carapetis JR, Andrews RM. Frequenting The Clinic—Disease Burden And Health Care Attendances For Young Children In Remote Aboriginal Communities Of Northern Australia. *Bulletin of the World Health Organization* 2008;86(4):275-280.
- Chang AB, Grimwood K, Maguire G, King PT, Morris PS, Torzillo PJ. Management of bronchiectasis and chronic suppurative lung disease in Indigenous children and adults from rural and remote Australian communities. *Med J Aust* 2008; 189 (7):386-393.
- Hare KM, Morris P, Smith-Vaughan H, Leach AJ. Random colony selection versus colony morphology for detection of multiple pneumococcal serotypes in nasopharyngeal swabs. *Pediatr Infect Dis J* 2008; 27 (2):178-180.
- Leach AJ, Morris PS, Mackenzie G, McDonnell J, Balloch A, Carapetis J, Tang M. Immunogenicity for 16 serotypes of a unique schedule of pneumococcal vaccines in a high-risk population. *Vaccine* 2008; 26:3885-3891.
- Leach AJ, Morris PS, Mathews JD. Compared to placebo, long-term antibiotics resolve otitis media with effusion (OME) and prevent acute otitis media with perforation (AOMwIP) in a high-risk population: a randomized controlled trial. *BMC Pediatr* 2008;8:23.
- Sayers S, Singh G, Fitz J, Schultz K, Davison B. Update on the Aboriginal Birth Cohort Study: Wave 3 Methods at 20 years. *Aboriginal & Islander Health Worker J* 2008; 32 (4):18-20.

Awards and Achievements

- Dr Gurmeet Singh completed her Paediatrician training in 2008 and was awarded her FRACP and PhD from the University of Queensland.
- Dr Kerry-Ann O'Grady was awarded her PhD from the University of Melbourne.
- Dr Nicholas McTurk was awarded his PhD from the University of Aberdeen.
- Dr Kerry-Ann O'Grady and Dr Sue Skull were awarded NHMRC Training Fellowships.
- Dr Tom Snelling coordinated the successful Alan Walker seminar series for 2008.
- Kerry-Ann O'Grady won an Early Career Award, at the 2008 Population Health Congress in Brisbane, from the Australasian Epidemiological Association.
- Nicholas Wood awarded Rue Wright Best PhD Presentation (ABC study) at the College of Physicians Scientific Group Annual Meeting.



Menzies Staff under the Microscope

Gabrielle McCallum – Senior Nursing Coordinator, Child Health Division

Gabby McCallum may well be the most widely travelled woman in the Northern Territory. During her eight years at Menzies, this registered nurse has travelled tens of thousands of kilometres across the length and breadth of the Territory in the course of her work on ear health, bacterial drug resistance and – most recently – the prevalence of chronic lung disease (bronchiectasis) among Indigenous children.



"I have always had a passion for kids and knew it was an area I always wanted to work in. I also really enjoy working with families and health professionals in transferring knowledge and building capacity in communities."

"I grew up on a farm in country South Australia so I'm used to driving long distances," she says.

Gabby spends less time behind the wheel these days in her current role mentoring and advising multiple respiratory and ear studies in the Child Health Division in addition to coordinating the Australian leg of the multicentre bronchiectasis study.

"It's a collaborative study involving researchers from New Zealand and Alaska as well as us here at Menzies, with the common thread being that chronic lung disease (leading to Bronchiectasis) is still harming mainly Indigenous kids living in remote communities in our otherwise affluent societies," she says.

Bronchiectasis is a chronic infection of the lung airways caused by bacterial agents which leads to abnormal and permanent dilatation of the medium and smaller airways. This allows mucus to accumulate and remain stagnant, and subsequently become infected, leading to repeated lung infections and permanent damage to the lungs and main airways.

The study involves two stages, the first being an observational study of children aged from six months to eight years, and the second being a randomised controlled trial involving a 24-month antibiotic intervention for children aged from 12 months to eight years.

The Australian arm of the study is the only one involving both stages – and Gabby is the national coordinator.

"The observational side began two years ago and the randomised trial began in November 2008," she says. "The study is taking place in Aboriginal communities here in the Northern Territory and in South Australia, and should finish up in 2011."

"If the azithromycin antibiotic proves effective, we hope that eventually it will change clinical practice and evidence based guidelines for these children. That would be fantastic."

Strangely enough, Gabby says the research was her least favourite component of her original nursing studies at Adelaide's University of South Australia. Now she has a Masters of Public Health, with her graduation due to take place in May 2009.

"I have always had a passion for kids and knew it was an area I always wanted to work in. I also really enjoy working with families and health professionals in transferring knowledge and building capacity in communities."

One day she hopes to travel overseas and combine that with work in other disadvantaged communities, but that's a way off yet. Besides, she admits, "I've yet to check out the Barkly Tablelands – it's the only part of the Territory I haven't been to!"

*Want to work or study at Menzies?
Visit www.menzies.edu.au for more
information about employment and
education opportunities.*



Dr Tricia Nagel
Divisional Leader, Healing and Resilience Division



healing and resilience division



Many Indigenous people live their lives whilst suffering from mental health problems and Indigenous people are at a higher risk of developing a mental disorder than other Australians. Whilst Menzies is looking for ways to improve mental health we are also looking at mental health prevention by examining the tools which a person or community needs and ways for people and communities to stay socially, spiritually, emotionally and mentally strong.

Research has shown that Indigenous people go to hospital for help with mental disorders linked with alcohol, kava, petrol and marijuana use. Indigenous people die from mental disorders linked with substance misuse at more than 11 times the rate of non-Indigenous people.

At Menzies we are striving to communicate 'two-way' mental health messages and to discover ways to overcome barriers caused by language and literacy.

Menzies' Healing and Resilience Division tackles these challenges by empowering Indigenous people to make them strong in mind and body.

Our researchers give people the tools to recognise and overcome the problems causing mental illness, such as social, work and family stress.



healing and resilience division

Research Priorities

The establishment of a Division dedicated to healing and resilience research represents a new research direction for Menzies. With a focus on Indigenous wellbeing, this Division includes existing research into mental health and substance misuse as well as an ambitious research agenda into social and family structures and function, factors that promote resilience and good mental, physical and emotional health and how those factors differ between individuals and communities in Indigenous and non-Indigenous settings. The Division is exploring new approaches to delivering mental health care and substance misuse prevention and evaluation programs and developing practical strategies to improve mental health and wellness in an environment that accommodates cultural diversity and respect.

Looking Forward

In the coming year the Healing and Resilience Division plans to consolidate its staff of Indigenous and non-Indigenous researchers and to explore Indigenous wellbeing related to substance misuse, gambling, palliative care, chronic disease and mental illness and to continue to promote capacity in Indigenous mental health research and service delivery. Several new and significant projects will commence in 2009 and there will be a renewed focus on substance misuse with the establishment of a dedicated substance misuse unit in 2008.

Research Projects

Mental Health

- AIMHI NT – Australian Integrated Mental Health Initiative, NT.

Substance Misuse

- Neurocognitive and social changes associated with unleaded petrol sniffing and abstinence from further sniffing.
- The development of culturally-appropriate cognitive assessments with applications in substance abuse and mental health with Indigenous clients.
- Best practice guidelines for evaluation of Indigenous residential alcohol and drug programs.
- Evaluation of the Alice Springs and Tennant Creek Alcohol Management Plans
- Alcohol, Drugs and the Brain: Evaluation of health communication strategies.
- Community understanding of substance misuse.
- Changing patterns of substance misuse.
- Developing appropriate evaluation strategies for Indigenous rehabilitation services.

Youth Health

- Development of a research project to examine sexual decision making among youth in remote Aboriginal communities in NT, WA and SA, in collaboration with the sexual health and Blood borne diseases unit of the Northern Territory Dept of Health and Families.
- Development of a project to investigate the dynamics of gang membership in a remote Aboriginal community.

Palliative Care

- Quality of life and palliative care for clients in remote communities in the Northern Territory.



Highlights of 2008

- The establishment of a dedicated 'Substance misuse' unit within the Division and the appointment of Dr Kate Senior as its head. This new unit will enhance the capacity of Menzies to respond to key issues in substance misuse including evaluation of Alcohol management plans and development of new understanding related to such community-wide interventions. This unit has strong partnership with the NT Government and is well positioned to influence policy and practice.
- Publication of two educational flipcharts titled 'When Boys and Men Sniff' and 'When Girls and Women Sniff'.
- Over 500 Aboriginal adults and adolescents were assessed using 'CogState' computerised cognitive assessment.
- The 'Strong Souls' assessment of social and emotional wellbeing was developed and validated for use with Indigenous Australians.
- The assessment of 72 ex-petrol sniffers and healthy controls, over 10 years since the baseline research was conducted.
- Increasing national interest in the AIMHI training and research findings as shown by significant increases in invited presentation and media activity throughout the year.
- The year saw the 'winding down' of the AIMHI project as funding came to an end. It also saw the development of proposals to allow the various elements of AIMHI continue beyond the life of the funding.
- The duration of the AIMHI project saw employment of eight Indigenous people with AIMHI NT over the five years.
- The results of a randomised controlled trial in two remote communities suggest that motivational care planning (MCP) is an effective treatment for Indigenous people with mental illness and comorbidity.
- Evaluation of training of 259 service providers in the course of 17 workshops using the tools developed through the AIMHI 'story telling project' was highly positive.
- Dr Kate Senior and Dr Richard Chenhall's paper 'Lukubat marawana: a changing pattern of drug use by youth in a remote Aboriginal community', received national media attention and resulted in a change to NT Government Policy regarding substance misuse.

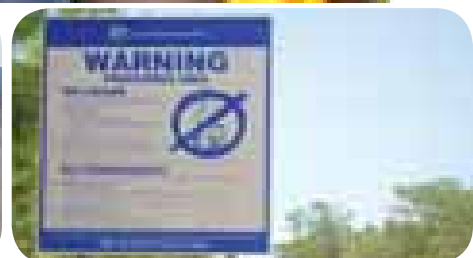
Publications

The Division published 10 papers during 2008. Highlights included (a full list of Divisional publications can be found on page 84):

- Nagel T, Thompson C, Spencer N. Challenges to relapse prevention: psychiatric care of Indigenous in-patients. *Australian e-Journal for Advancement of Mental Health* 2008; 7(2).
- Nagel T. Thesis: Relapse prevention in Indigenous mental health. 2008, Menzies School of Health Research and Charles Darwin University: Darwin.
- Nagel T. Motivational care planning. *Australian Family Physician*, 2008. 37(12): p. 996-1001.
- Nagel T, et al. An approach to treatment of mental illness and substance dependence in remote Indigenous communities: results of a mixed methods study. *Australian Journal of Rural Health*. Accepted November 2008.
- Nagel T, et al. 'Two way' approaches to Indigenous mental health literacy. *Aust Journal of Primary Health*, Accepted December 2008.
- Senior K, Chenhall R D. 'Walkin' about at night: The background to teenage pregnancy in a remote Aboriginal community. *Journal of Youth Studies*, 2008; 11(3): 269-282.
- Chenhall R D. What's in a rehab? Ethnographic evaluation research in Indigenous residential alcohol and drug rehabilitation centres". *Anthropology and Medicine*, 2008; 15(2): 91-104.
- Senior K, Chenhall R D. Lukubat marawana: A changing pattern of drug use by youth in a remote Aboriginal community. *Australian Journal of Rural Health*, 2008; 16(2): 72-9.

Awards and Achievements

- The duration of the AIMHI project saw four out of five Indigenous researcher officers engaged in further tertiary study including Carolyn Thompson completed her Associate Diploma of Community development at Curtin University. Indigenous researchers presented research papers at international (Canada, New Zealand and Australia) and national conferences, and conducted workshops in three states as well as Darwin, Alice Springs, Gove and Katherine.
- Dr Trish Nagel was awarded her PhD from Charles Darwin University, was also appointed as Alumnus of Australian Academy of Science and was promoted to Associate Professor at James Cook University.
- The Division received a significant funding boost from the NT Community Benefit Fund to continue to explore community attitudes to gambling in NT remote communities. This work will commence in 2009.
- Received funding from the Lord Mayor's Charitable Fund (Victoria) to work with St. Vincent's Health, Addiction Medicine Centre to develop two more educational flipcharts on alcohol and cannabis and their impact on the brain.
- Dr Sheree Cairney was awarded a Scientific Grant scholarship for a 40 day visit to Brown University in Rhode Island (USA).



Menzies Staff under the Microscope

Ms Carolyn Thompson – Research Assistant, Healing & Resilience Division

As a young St. John's College student growing up in Darwin, Carolyn had always wanted to be a nurse. But when she got to university the financial struggle – she was a single mother by that stage – proved too much.



"It's a real buzz to continue learning new things and, after so many years wanting to, it's really satisfying to finally complete a university degree. It just shows that, if you really want something, you can get it."

It wasn't until 1996 that she finally decided to pursue her early interest in health by studying for a Certificate III in behavioural and social issues at Batchelor Institute.

That led directly onto a career as an Aboriginal Mental Health Worker at Tamarind with Top End Mental Health Services and, eventually, to her current role as a Senior Indigenous Researcher in Menzies' Healing and Resilience Division, where she started in 2003.

"Dr Tricia Nagel approached me to work on the AIMhi [Australian Integrated Mental Health Initiative] project as part of the Top End study team, which was conducting research in parallel with a north Queensland study team. Our aim was to improve outcomes for Aboriginal people with chronic mental health conditions in remote areas."

Having dealt with many seriously ill Aboriginal patients while working within the inpatient unit at Cowdy Ward, Carolyn says it was great to get involved with a project that had the potential to slow down the number of Aboriginal people needing institutional treatment for mental health conditions.

"From my own personal experience, I know there are so many issues that weigh Aboriginal people down. My mother, who was of mixed Warlpiri and Gurindji descent, was born at Mount Doreen Station outside Yuendumu and taken away as a child to Garden Point Mission on the Tiwi Islands along with all the other Stolen Generation kids."

"I was lucky – I grew up in Darwin and went to school with a good group of Aboriginal students from all over the Territory in a really supportive environment, which has given me the strength to lead a meaningful life."

"Out on the communities life is much more difficult for young people growing up. There's not much out there and boredom is a big thing, there's a lot of loneliness and despair."

Carolyn says that one of the best things about AIMhi was the chance to get out to communities and talk about mental health issues.

"During AIMhi we did surveys and we found that people had concerns about their lack of knowledge in dealing with mental health issues. As a result we've been able to develop tools and provide training for primary health care workers and other service providers to give them the basics for working with Aboriginal clients suffering from mental health issues."

"Other services we've now linked up with include addiction counselling service Amity, Central Australian community health group Waltja Tjutangu Palyapayi and the Ngaanyatjarra Pitjantjatjara Yankunytjatjara Women's Council, who are all working with our tools to explore mental health and gambling in remote communities."

"We'll also continue testing the brief intervention and developing best practice protocols, and providing training and 'train the trainer' workshops in Indigenous mental health. We've just got funding for three years to progress our work, so that's very good news."

Carolyn is also in her final year of a three-year Indigenous Community Management and Development course at Perth's Curtin University and, all things going well, will graduate with a degree next year.

"It's a real buzz to continue learning new things and, after so many years wanting to, it's really satisfying to finally complete a university degree. It just shows that, if you really want something, you can get it."

Want to work or study at Menzies?

Visit www.menzies.edu.au for more information about employment and education opportunities.



Professor Nicholas Anstey
Divisional Leader, International Health Division



international health division



Each year around the world, millions of people die from diseases which thrive in disadvantaged populations in tropical environments.

Working with our regional partners, our researchers are striving to improve the health of our neighbours and discover better ways of preventing disease and developing affordable treatment regimes which will help millions of people live a healthier tomorrow.

Our global health research spans some of the major public health problems in our region – malaria, tuberculosis and severe bacterial infections – diseases which kill millions in countries to our north with worsening drug resistance posing a major threat to controlling these diseases.

Our researchers work with partners in many countries across South East Asia and the Pacific, including Indonesia, Thailand, Fiji, Papua New Guinea and East Timor.



international health division

Research Priorities

The establishment of a stand alone International Health Division has increased the scope of Menzies' international research activities. The Division has four major research and training themes. The first three involve the prevention and treatment of infections of major public health importance in the region – malaria, tuberculosis and bacterial infections and their complications. The fourth theme is research and training to improve women and children's health in our region.

Research and Training Projects

Malaria

- Evaluating the impact and cost-effectiveness of widespread deployment of artemisinin combination therapy on malaria morbidity and mortality in Papua, Indonesia.
- Defining the burden and pathogenesis of severe disease in vivax malaria.
- Reducing the burden of malaria in pregnancy and infancy in Papua, Indonesia.
- Optimising the identification and management of drug resistant vivax malaria in Papua, Indonesia.
- Microvascular dysfunction and the pathogenesis of severe malaria.
- Investigation of intravenous arginine for adjunctive treatment of severe malaria.
- Understanding cellular immune responses to malaria and sepsis.

Tuberculosis

- A randomised controlled trial of L-arginine or Vitamin D to improve outcomes in pulmonary tuberculosis.

Women and children's health

- Women and Children's Health Knowledge Hub established with workplan and operational framework developed during 2008.
- Impact of malaria on women's and infant health and strategies for its prevention.

Looking Forward

During 2009 the International Health Division plans to consolidate and support current work and research in Timika, Papua Indonesia as part of our ongoing collaborations. The division will also be diversifying in several ways: expanding our regional scope through establishing new research and field sites and Sabah, developing a nutritional focus in women's and children's health where we will undertake a pilot for a nutritional critical appraisal tool to assist governments and donors in assessing the value of nutritional programmes. This is proposed for Timor Leste and one other country in the region and is part of the workplan of the Women's and Children's Health Knowledge Hub.

During 2009 the International Health Division will also be expanding our networks and horizons through the development of a Malaria Vivax focus group as part of the Asia Pacific Malaria Elimination Network which will be hosted at Menzies, and coordination of the World Wide Antimalarial Resistance Network (WWARN). These additional activities and the establishment of the Women's and Children's Health Knowledge Hub will see a growth in staff numbers during 2009.

Bacterial infections and their complications

- World Heart Federation Rheumatic Fever Secondary Prevention Program in the Pacific Island Nations.
- Auscultation and Echocardiography of primary ages children in Fiji for the detection of rheumatic heart disease.
- Development and evaluation of a continuous quality improvement model for rheumatic heart disease control and prevention in Fiji.
- Fiji group A streptococcal project – a comprehensive disease epidemiological study with a view to eventual clinical trials of a new rheumatic fever vaccine.
- Fiji Rheumatic Heart disease screening – exploring a feasible and sustainable model for a resource poor setting.
- Sepsis – epidemiological, pathophysiology and adjuvant treatment.
- The role of arginine and tryptophan metabolism in sepsis.
- Do statin drugs improve endothelial function in sepsis? The STREAMS study.
- Prospective Epidemiology of Sepsis in the Top End – PRESTO.



Divisional Highlights

- Significant research published on the association of *Plasmodium vivax* with severe and fatal disease and also its importance in pregnancy.
- Researchers from the International Health Division identified a novel mechanism of endothelial activation which predicts death in severe malaria and commenced a clinical trial of a nutritional intervention to improve blood vessel function and outcomes.
- Commencement of a randomised controlled trial of adjunctive L-arginine in severe falciparum malaria, the culmination of 12 years of severe malaria pathophysiology research at Menzies.
- Professor Nick Anstey and Dr Ric Price were invited speakers at 6 international malaria meetings, including a symposium on severe vivax malaria at the American Society of Tropical Medicine and Hygiene Annual Scientific Meeting.
- Ongoing surveillance of severe and uncomplicated malaria in Timika following changes to antimalarial policy.
- Ongoing pathophysiology studies identifying the correlates of endothelial dysfunction in severe malaria. Pivotal description of angiotensin-2 published in Proc Natl Acad Sci USA.
- Start of a major clinical trial of adjunctive treatment for pulmonary TB using Vitamin D and/or arginine.
- The first full year of operation for the Women's and Children's Specialist Knowledge Hub. The Hub has been tasked to contribute to achieving the Millennium Development Goals of reducing childhood mortality by two thirds, and reducing maternal mortality by three quarters and aiming for universal access to reproductive health care.
- The Division was awarded an NHRMC grant of \$2.5 million for a trial on the 'Impact of DTP schedules on the immunogenicity of 2 doses of 13v-PCV followed by an early booster' to be conducted in Fiji.
- \$2.1 million core funding from AusAID was awarded to support the Timika Research Facility in Timika, Papua, Indonesia.
- Work continues on a NHMRC program grant for Immunity and Pathogenesis in Tropical and Infectious Diseases: Implications for Vaccine and Drug Development in collaboration with the Queensland Institute of Medical Research.
- International Health researchers played a significant role in the 2nd World Heart Federation and World Health Organisation RHD prevention and Control Workshop for Pacific Island Countries.
- Commencement of a student project looking at how an established CQI process can be adapted for rheumatic heart disease control and prevention in Fiji.
- Work continued on RHD screening program in Fiji with more than 20 community and school nurses trained in basic auscultation and almost 2,000 primary aged children screened by auscultation and echocardiography for RHD. Data collection phase of this study will be completed in early 2009.
- A remodelled and expanded website was developed – Rheumatic Heart Disease Network (RHDnet) including establishment of a members' discussion forum.

RHDnet
www.worldheart.org/rhd



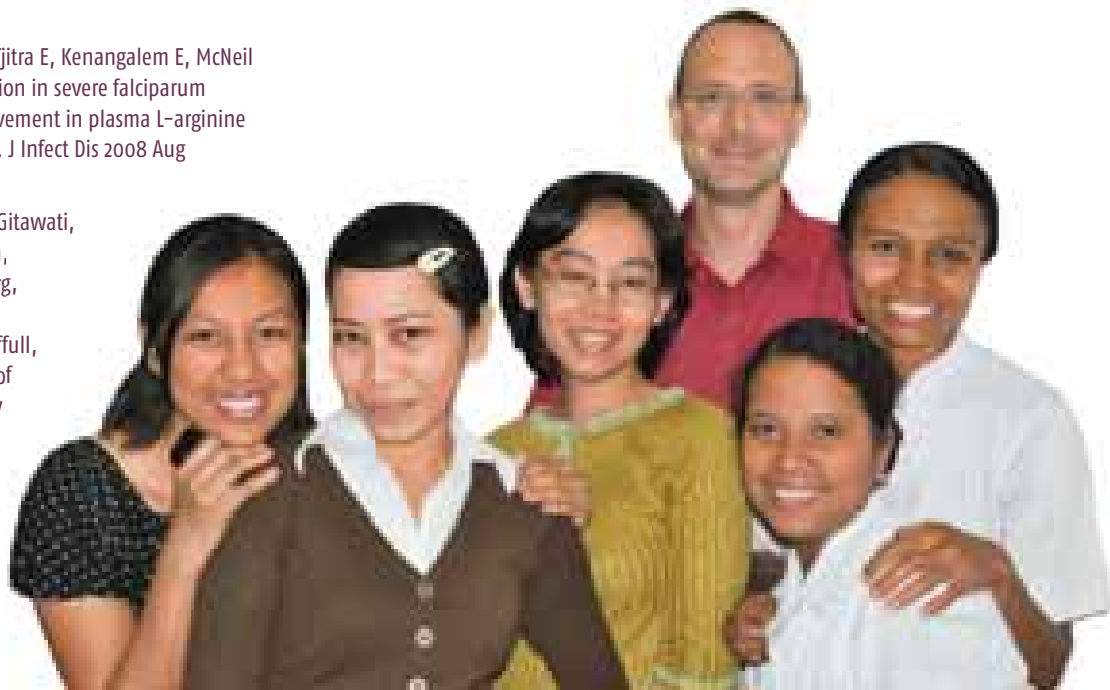
Publications

The Division's output of peer reviewed publications continues to rise, with 20 peer reviewed papers published during 2008. Highlights included (a full list of Divisional publications can be found on page 84):

- Tjitra E, Anstey NM, Sugiarto P, Warikar N, Kenangalem E, Karyana M, DA Lampah, RN Price. Multidrug-resistant *Plasmodium vivax* associated with severe and fatal malaria: A prospective study in Papua, Indonesia. *PLoS Med*, 5(6):e128. 2008.
- Yeo TW, Lampah DA, Gitawati R, Tjitra E, Kenangalem E, Piera K. Angiopoietin-2 associated with decreased endothelial nitric oxide and poor clinical outcome in severe falciparum malaria. *Proc Natl Acad Sci USA* 2008; 15:17097-102.
- Poespoprodjo JR, Fobia W, Kenangalem E, Lampah DA, Warikar N, Seal A. Adverse pregnancy outcomes associated with multidrug resistant *P. vivax* and *P. falciparum* infection. *Clin Infect Dis* 2008; 46:1374-81.
- Suwanarusk R, Chavchich M, Russell B, Jaidee A, Chalfein F, Barends M. Amplification of *pvm* associated with multidrug-resistant *Plasmodium vivax*. *J Infect Dis* 2008; 198:1558-1564.
- Woodberry T, Minigo G, Piera KA, Hanley JC, Silva HD, Salwati E. Antibodies to *Plasmodium falciparum* and *Plasmodium vivax* Merozoite Surface Protein 5 in Indonesia: Species-Specific and Cross-Reactive Responses. *J Infect Dis* 2008 May 9;198(1 July):134-42.
- Yeo TW, Lampah DA, Gitawati R, Tjitra E, Kenangalem E, McNeil YR. Recovery of endothelial function in severe falciparum malaria: relationship with improvement in plasma L-arginine and blood lactate concentrations. *J Infect Dis* 2008 Aug 15;198(4):602-8.
- Yeo TW, Daniel A Lampah, Retno Gitawati, Emiliana Tjitra, Enny Kenangalem, Donald L Granger, J Brice Weinberg, Bert K Lopansri, Ric N Price, David S Celermajer, Stephen B Duffull, Nicholas M Anstey. Safety profile of L-arginine infusion in moderately severe falciparum malaria. *Plos ONE* 2008, 3:e2347

Awards and Achievements

- Dr Tsing Yeo completed his PhD 'The Role of Endothelial Dysfunction and L-Arginine in the Pathogenesis of Falciparum Malaria', with a commendation.
- Dr Rini Poespoprodjo was awarded an Australian Leadership Award and the Alison Sudrajat award for the best PhD research proposal from Indonesia.
- Sarwo (Menik) Handayani completed her MSc thesis entitled 'Deformability of *Plasmodium vivax* infected red blood cells.'
- Dr Jutta Marfurt was awarded a Swiss National Foundation (SNF) research fellowship and Professor Nick Anstey was awarded a NHMRC Practitioner Fellowship 'Pathophysiology and treatment of malaria and other tropical infectious diseases in our region.'
- Professor Nick Anstey was co-convenor (and presenter): Keystone Malaria Meeting in Austria: Malaria Immunology, Pathogenesis and Vaccine Perspectives.
- Dr Ric Price was elected to the Planning Board of the World Antimalarial Resistance Network and Chair of the Clinical Subgroup.
- Dr Ric Price, a member of the WHO expert panel investigating Artemisinin drug resistance confirmation and characterisation, attended a clinical trials meeting in Bangkok.



Menzies Staff under the Microscope

Dr Tsin Yeo – Research Fellow, International Health Division

Now that he's into his fourth year of working with malaria sufferers in Papua's rugged interior, Menzies Research Fellow Tsin Yeo makes it all sound like a walk in the park.

Despite making a home in Darwin with his wife and young son on joining Menzies in 2004, since 2005 Tsin has spent "close to 20 months" working in the town of Timika on the southern side of the Indonesian province's central highlands, about 60km from the giant Freeport Grasberg copper mine.



"If you diagnose malaria early enough, there are now some very effective drugs that help reduce its severity. The problem in places like Papua is that people don't seek treatment until they're very ill, and that's the group we're trying to help."

"It's pretty basic but the advantage is we're right next to a hospital," Tsin says. "Our field site is a joint venture with Indonesia's National Institute of Health Research and I work with 20 Indonesian staff."

"Collaborating with the Indonesian doctors at the Rumah Sakit Mitra Masyarakat hospital has been great, and the local Papuan and Indonesian population have also been fantastic in the way they have participated in our studies and taught me about their culture."

"However, the work can be fairly isolating, made worse by occasional tribal conflicts which can see us confined to the research and hospital areas for days at a time."

Tsin was born in Singapore and grew up speaking English, Mandarin Chinese and Malay, which is very similar to Indonesia's Bahasa and which he now also speaks fluently. In his role at Menzies' International Health Division, Tsin is part of a 12-strong malaria research team and the main person on the ground in Papua.

"We enrol local people who present at the hospital with malaria into two research studies that we are running concurrently. The first is a study into the pathogenesis of malaria, where we're looking at the interaction between blood vessels and parasites. The second is a trial of an agent that acts on the blood vessels to hopefully reduce the damage done by the malaria parasite."

Both parts of Tsin's research have been running since 2005 and so far about 200 people have been recruited into the studies, with a further 100-200 likely to take part before the research winds up in three years' time.

"I'll be spending a lot of time in Timika for a while yet, but fortunately I have strong support from my family," Tsin says.

Tsin's interest in international health issues came to the fore after he spent several months working in India and Nepal while still a student at the National University of Singapore. After graduating with a Bachelor of Medicine and Surgery, he decided to specialise in infectious diseases through study at University of Utah in the US.

It was at University of Utah that Tsin bumped into Nick Anstey, the head of Menzies' International Health Division, who was in the US on a sabbatical, and the chance meeting resulted in an invitation to come and join Menzies as a malaria researcher. Tsin came to Darwin at the end of 2004 and has since completed a PhD focused on malaria pathogenesis.

Despite a significant research effort over the past decade there are still some 500-750 million cases of malaria worldwide each year, resulting in about two million deaths. In Indonesia alone it is estimated there are close to a million people diagnosed with malaria each year and about 30,000 deaths.

"If you diagnose malaria early enough, there are now some very effective drugs that help reduce its severity. The problem in places like Papua is that people don't seek treatment until they're very ill, and that's the group we're trying to help."

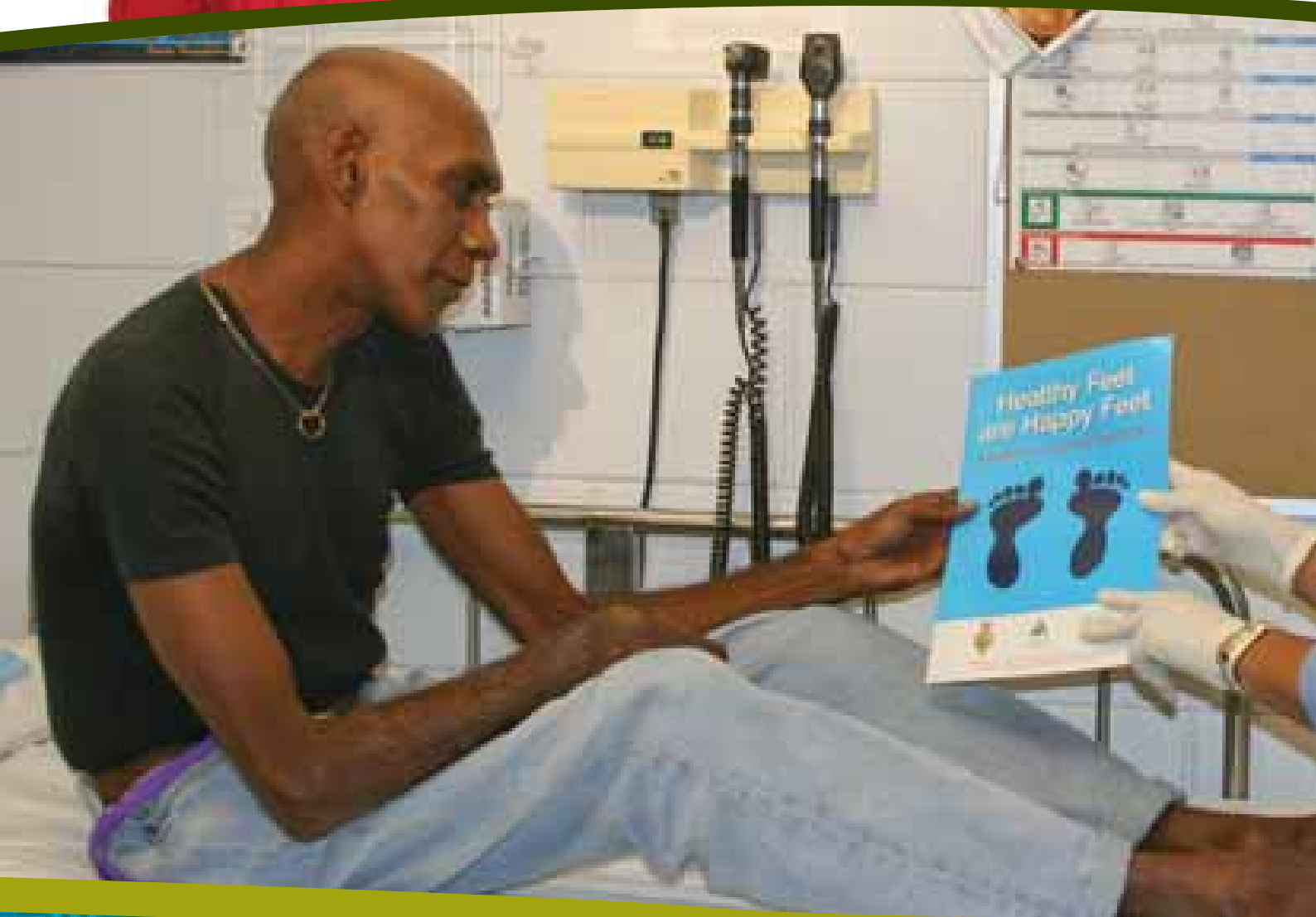
"The agent we are trialling is intended not to kill the parasite but to allow the blood vessels to function much better when infected, which offers better prospects for those in an advanced stage of the disease."

Want to work or study at Menzies?

Visit www.menzies.edu.au for more information about employment and education opportunities.



Dr David Thomas
Divisional Leader, Preventable Chronic Diseases Division



preventable chronic diseases division



Alarming, Indigenous people die 15 to 20 years younger than other Australians and more than half of this health 'gap' is caused by chronic diseases such as heart disease, stroke, diabetes, chronic respiratory disease and kidney disease.

Most chronic diseases are preventable and our Preventable Chronic Diseases Division researches ways to reduce risk factors such as smoking, prevent and treat conditions such as diabetes and chronic kidney disease, and promote healthy eating and active lifestyles in Indigenous communities.

We are researching both the causes and prevention of chronic disease and we work at all levels from influencing policy with our findings to transferring those findings into workable, everyday solutions in clinical settings.

Our researchers work in both urban and remote Indigenous communities to introduce solutions to reduce the risk and impact of chronic diseases.



preventable chronic diseases division

Research Priorities

The Preventable Chronic Diseases Division's research is focusing on treatment and prevention of diabetes, tobacco control interventions and promotion of healthy eating and active lifestyles within Indigenous communities.

Research Projects

Clinical Research

- Tiwi Pakajura Primary Prevention Program.
- Accurate assessment of renal function and progression of chronic kidney disease in Indigenous Australians (eGFR Study).
- The relationship of body composition, renal impairment and inflammatory cytokines in Indigenous people with diabetes.

Tobacco

- Monitoring and Evaluating Aboriginal Tobacco Control.

Nutrition

- The evaluation of a remote Indigenous store-based budgeting tool (FOODcard) and income management on buying patterns, usage and customer satisfaction.
- Supporting the Yolngu Life: Yolngu WaIngakum Building healthy Communities.

Looking Forward

The next couple of years will be particularly exciting for the PCD division. Following great NHMRC funding success by all three research programs, we will be doubling the number of staff in the division in early 2009. This work will bring us exciting new projects, new faces at Menzies, and new places where we will be working. The Tobacco Control research team has also begun discussions that may lead to Indigenous tobacco control research collaborations New Zealand and Canada.

We will also continue to work with local policy makers and practitioners so they can use research findings to improve current policies and practices, and so make a difference to Aboriginal health. We are also working hard with our Indigenous PhD students and Indigenous research staff to improve their training and development opportunities whilst at Menzies.





Highlights of 2008

- The Division was successful in three out of three NHMRC Project Grants as well as gaining further significant funding from the Rebecca Cooper Foundation and a CVL/Pfizer grant.
- Completion of the Evaluation of the 18-month 'Tobacco Project' in six remote Aboriginal communities. Final report submitted to Northern Territory Government and stakeholder feedback workshop held. In early 2008 the Australian government announced it would spend \$14.5m over the next four years on Indigenous tobacco control – it is anticipated that Menzies work will play a major role in this important strategy.
- Completion of qualitative research about Aboriginal perceptions of why people smoke and quit, and of effectiveness and acceptability of different tobacco control activities. This research found that there is a complex interplay of historical, social, cultural, psychological and physiological factors which influence the smoking behaviours of Indigenous adults in remote communities. Specifically, this research supports the development of family-centred tobacco control interventions alongside wider policy initiatives to counter the normalisation of smoking amongst remote Indigenous communities, in addition to supporting individuals to quit.
- Work with Outback Stores on tobacco control led to their decision to remove tobacco from public display in all their stores. Outback Stores are now amongst the best in the country in protecting children from this form of tobacco advertising.
- Completed significant proportion of data collection in Top End for 'eGFR Study' and received community support to expand study to Central Australia, Far North Queensland and Western Australia in 2009.
- Tiwi Pakajura (kidney) Primary Prevention Program (TiwiPPPP) established which will undertake a randomised controlled trial. The trial will evaluate whether the development of albuminuria (kidney disease), hypertension (high blood pressure) or diabetes can be delayed or postponed in adults in the Tiwi community.
- In collaboration with ALPA and Yalu' Marnggithinyaraw, completion of the evaluation of the ALPA 'FOODcard' being used in association with the Australian Government welfare reform income management strategy.
- The RIST store monitoring tool we developed in 2007 is now being trialed in the NT, WA and QLD. We provided training to more than 40 Nutritionists across Australia in the use of the tool and have created a website for the tool and offer a helpdesk.
- After many years of supporting Galiwin'ku community with health promotion initiatives, Menzies researchers completed a three year community development project as part of the Australian Government Building Healthy Communities Initiative. This long standing partnership with Galiwin'ku community has contributed to building local research capacity and a strong relationship with the community that has assisted many other research projects conducted by Menzies and external to Menzies.
- Publication of several key findings from the DRUID study related to diabetes and its complications such as cardiovascular disease in international journals.



Publications

The Division published 18 papers during 2008. Highlights included (see page 84 for full list of Divisional publications):

- Thomas DP, Briggs V, Anderson IPS, Cunningham J. The social determinants of being an Indigenous non-smoker. *ANZ J Public Health* 2008; 32: 110-16.
- Johnston VF, Thomas DP. Smoking behaviours in a remote Australian Indigenous community: the influence of family and other factors. *Social Science & Medicine* 2008; 67: 1708-16.
- Maple-Brown L, Cunningham J, Dunne K, Whitbread C, Howard D, Weeramanthri T, Tatipata S, Dunbar T, Harper A, Taylor HR, Zimmet P, O'Dea K, Shaw JE. Complications of diabetes in urban Indigenous Australians: the DRUID Study. *Diab Res Clin Pract* 2008; 80: 455-462.
- Maple-Brown L, Cunningham J, Barry RE, Leysley L, O'Rourke MF, Celermajer DS, O'Dea K. Impact of dyslipidaemia on arterial structure and function in urban Indigenous Australians. *Atherosclerosis*. 2008; 202: 248-254..

Awards and Achievements

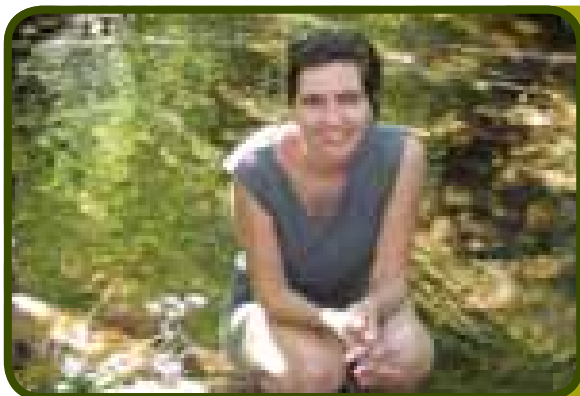
- Dr Vanessa Johnston and Dr Julie Brimblecombe were both awarded NHMRC postdoctoral fellowships.
- Dr Jaqui Hughes, Australia's first Indigenous nephrologist, commenced as a PHD student with the Division and was awarded Douglas and Lola Douglas award for highly ranked NHMRC PhD scholarship application.
- Dr Julie Brimblecombe was invited by the Prime Minister's SEIC working group on Indigenous health to provide a briefing paper on work on nutrition in remote communities and was invited to speak on food security issues for Aboriginal communities at the RANZCOG conference and annual scientific meeting of the nutrition society of Australia.
- Ms Leisa McCarthy won the Ian Potter Indigenous Research Fellowship and commenced her PhD with the PCD division in September 2008.
- The eGFR study team presented two poster presentations at the Australian and New Zealand Society of Nephrology Annual Scientific Meeting.
- Dr Vanessa Johnston attended Murdoch Children's Research Institute Public Health Leadership Forum.
- Mr Mark Lock, an Aboriginal University of Melbourne student supervised by Dr David Thomas, submitted his PhD thesis 'The participation of Indigenous people in national Indigenous health policy processes'.



Menzies Staff under the Microscope

Dr Vanessa Johnston – Research Fellow, Preventable Chronic Diseases Division

As a doctor's daughter, Vanessa Johnston felt the call of a life in medicine from an early age. She graduated with a medical degree from Monash University in 1996 and seemed set to follow in her father's footsteps.



“Through this trial and our ongoing research program, we now have a real chance to impact on policy direction in the NT and nationally, and for me that's really what it's all about.”

“I always thought that working in health was a very privileged role – very demanding, but very rewarding,” she says.

“However, the more I worked in medical practice the more I became interested in the social aspects of health, in particular the social determinants of health among disadvantaged and marginalised communities.”

To satisfy this interest she embarked on a Masters of Public Health in 2001 and began working in the public health arena for the first time, on multi-centre paediatric vaccine trials. From there she moved onto studying for a PhD in Public Health, focusing on the links between health and human rights in the context of Australian asylum seeker policies.

“The whole area of public health has been a revelation to me, partly because it's opened my eyes to the very real physical ramifications of social injustice and partly because of the lure of exciting and innovative research,” she says.

“In public health research you don't necessarily get the immediate results like you do in clinical practice, but you do feel much more connected to the bigger picture and the influence you can have on public policy.”

Vanessa arrived at Menzies in February 2007 as a Post-doctoral Research Fellow, drawn by the opportunity to engage in the area of Indigenous health. Initially she worked half time with David Thomas on the Tobacco Control Research Program and half time in early childhood education, but tobacco has since become her principal focus.

“The need is absolutely huge – research shows that 17 per cent of the gap between the health of Indigenous and non-Indigenous Australians is due to higher smoking rates,” she says.

“Initially my role was to visit remote communities in the Top End, to conduct research to better understand the reasons why Aboriginal people smoke and the drivers and barriers to quitting.”

“We believe this research gives us a better understanding of the social factors that influence Indigenous people to take up smoking. The ultimate goal is to develop more effective tobacco control programs targeted at Indigenous people.”

With her ongoing research activities slated to last four years, that leaves a lot of time to explore and enjoy Darwin.

“I always considered myself a big city girl and didn't think living in a regional area would suit me, but I'm really pleasantly surprised at how well I've adjusted to Darwin.”

“I love the big thunderstorms and the dry season is great, and I especially love the fact that in Darwin, people are really taken at face value – it's very refreshing after Melbourne!”

Just as exciting is recent news that the Tobacco Control Research Program has won NHMRC funding to trial the effect of a family-centred program about second-hand smoke on respiratory health outcomes among Aboriginal infants.

“We'll be conducting a randomised controlled clinical trial of the program, and we're about to hire another four staff to help us conduct the research.”

“Through this trial and our ongoing research program, we now have a real chance to impact on policy direction in the NT and nationally, and for me that's really what it's all about.”

Want to work or study at Menzies?

Visit www.menzies.edu.au for more information about employment and education opportunities.



Dr Alice Rumbold
Acting Divisional Leader, Services, Systems and Society Division



services, systems and society division



To improve Indigenous health we need to find out what we are doing right and what needs improving. Not just in the health care system but in the social and physical environment – housing, social justice, employment, women’s and environmental health.

Our Services, Systems and Society Division looks behind the symptoms to determine the causes of ill health – if our systems are not working, we want to know why and how to fix them.

We are striving to address poor health outcomes with better health, social and other services, including better access and coordination of services and research into the different ways people use health services.

Menzies researchers work alongside the staff of hospitals, clinics and local government councils to discover the best way to deliver health care across Australia.



services, systems and society division

Research Priorities

The work of the Services, Systems and Society Division is highly applied, with an underpinning philosophy of promoting health equity and social justice. This includes adding value through the analysis of existing datasets or documents as well as the collection of new data from individuals, groups and organisations.

The Division's applied research program aims to improve access to and use of affordable health and social services, improve the quality and coordination of health and social systems, improve our understanding of how social contexts, processes and socioeconomic factors can impact upon individual health and well being and develop and improve information systems to enable monitoring of performance outcomes and to support evidence-based decision making.

Looking Forward

With several senior researchers relocating interstate during 2008, the coming year will see the Division focusing their attention on ensuring that communication channels between research groups and individuals remain clear and open. It is also a time for consolidation within the Division with several years of growth under their belts. The coming year will be a challenging one for the ABCD team with funding coming to an end in its existing form and a requirement to find new partners to take forward a business case to establish a 'National Centre for Quality Improvement in Indigenous Primary Health Care'.

Research Projects

Comprehensive Primary Health Care

- Audit and Best Practice for Chronic Disease Extension.
- Implementing the Aboriginal and Torres Strait Islander Adult Health Check.
- How do we facilitate the development, implementation and evaluation of sustainable strategies for integrating key concepts for working in an Indigenous primary health care context into the curricula of universities and in the wider academy?

Services & Systems for Chronic Disease

- Healthy for Life program – the Support, Collection, Analysis and Reporting Function (SCARF).
- A structured systems approach to improving health promotion practice for chronic disease prevention in Indigenous communities.
- Improving health promotion practice for chronic disease in Indigenous communities through CQI.
- Examining a core assumption of policy and services for older Indigenous Australians.





DANGER

**DO NOT SWIM
NO MO BOGIE
BOGIE YOU
WILL GET SICK**



Highlights of 2008

Social Epidemiology

- Using environmental health indicators to promote healthy living environments in remote Indigenous communities
- Research to develop children's environmental health frameworks, indicators and survey tool
- The Better Environmental Health, Housing and Child Health Study (BEHHCH)
- CIPHER: Capacity Building in Indigenous policy-relevant health research
- The DRUID Study: Diabetes and Related disorders in Urban Indigenous people in the Darwin region
- Health system performance and outcomes for Indigenous Australians with cancer: a national study
- Racism and health.

Women's Health

- An epidemic of vulvar cancer in young women: investigating the role of Human Papillomavirus and genetic susceptibility
- Antenatal screening for fetal anomalies in Indigenous women: views of Indigenous people and their health care providers
- Can fetal fibronectin predict labour at term?

- An invited review of the incidence, aetiology and outcomes of cancer for Indigenous Australians by members of the Division was published in the *Lancet Oncology*.
- Dr Alice Rumbold was part of a team (led by the National Centre for HIV Epidemiology and Clinical Research) awarded \$1.7million from the NHMRC to undertake a new trial aimed at reducing sexually transmitted infections.
- The main results of the DRUID study (investigating diabetes and related diseases in urban Indigenous people) were published, as were several other DRUID publications.
- The CIPHER program, which is building capacity in Indigenous policy-relevant health research, conducted a very successful research dissemination forum in Canberra with staff of several Australian Government agencies.
- The SISTER study team reached 400 of its targeted 525 recruits.
- Dr Yin Paradies was a key contributor to the landmark 2007 VicHealth report 'More than Tolerance: Embracing Diversity for Health'.
- Commencement of a project investigating the views of Indigenous women, their families and their health service providers about screening for fetal anomalies; and investigating the cultural, awareness and systemic factors that influence Indigenous women's uptake of screening tests. This study will help to ensure that Aboriginal women are accessing the same standard of care during pregnancy as other Australian women.
- Publication of the Cooperative Research Centre for Aboriginal Health Discussion Paper: *The Impact of Racism on Indigenous Health in Australia and Aotearoa: Towards a Research Agenda*.
- A Business Case for a proposed 'National Centre for Quality Improvement in Indigenous Primary Health Care' was completed, and funding partners will be secured in 2009.
- The 'Implementing the Aboriginal and Torres Strait Islander Adult Health Check' project included a community intervention focused on tobacco cessation. This successful intervention decreased tobacco consumption by 8 per cent.

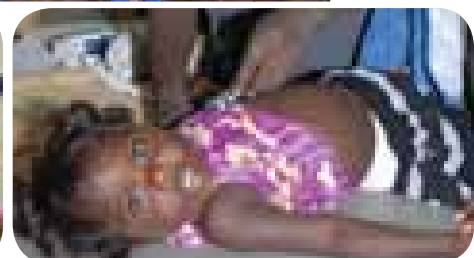
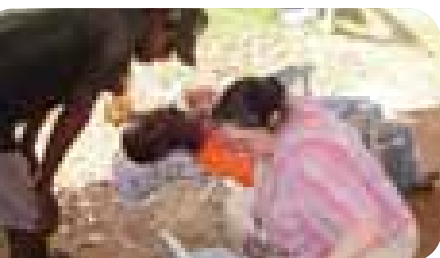
Publications

The Division published 26 peer reviewed papers during 2008. Highlights included (see page 84 for a full list of Divisional publications):

- Bailie RS, Si D, Dowden MC, Connors CM, O'Donoghue L, Liddle HE, Kennedy CM, Cox RJ, Burke HP, Thompson SC, Brown ADH. Delivery of child health services in Indigenous communities: implications for the federal government's emergency intervention in the Northern Territory. *Med J Aust* 2008; 188 (10):615-618.
- Cunningham J, Rumbold AR, Zhang X, Condon J. The incidence, aetiology and outcomes of cancer in Indigenous peoples in Australia. *Lancet Oncology* 2008;9:585-95.
- Condon JR, Rumbold AR, Thorn JC, O'Brien MM, Davy M, Zardawi I. A cluster of vulvar cancer and vulvar intraepithelial neoplasia in young Australian Indigenous women. *Cancer Causes & Control* 2008 Sep 3. Also 32:4
- Anderson KM, Devitt J, Cunningham J, Preece C, Cass A. 'All they said was my kidneys were dead': Indigenous Australian patients' understanding of their chronic kidney disease. *Med J Australia* 2008, 189(9): 499-503.
- Paradies Y, Williams, DR. Racism and Health. In Heggenhougen, K and Quah S (eds), *International Encyclopedia of Public Health*, vol. 5. 2008 (pp. 474-483). Academic Press, San Diego.
- Cunningham J, O'Dea K, Dunbar T, Weeramanthri T, Shaw J, Zimmet P. Socioeconomic status and diabetes among urban Indigenous Australians aged 15-64 in the DRUID Study. *Ethnicity & Health* 2008; 13:23-37.
- Rumbold A, Cunningham J, Bailie RS, Hillier JE. Exploring the characteristics of the research workforce in Aboriginal and Torres Strait Islander health. *Aust NZ J Public Health* 2008; 32:12-18.

Awards and Achievements

- Dr Fay Johnston completed her PhD on the health effects of bushfire smoke in the Australian monsoon tropics.
- Dr Alice Rumbold was a finalist in the NT Research and Innovation Awards New Investigator Awards.
- Assoc Professor Joan Cunningham received a NHMRC Research Fellowship.
- Dr Yin Paradies was appointed to the VicHealth Advisory Committee on Promoting Cultural Diversity and Reducing Discrimination and to the Australian Institute of Health and Welfare Ethics Committee Expert Panel on Research.
- Several Menzies representatives were speakers at the RANZCOG Indigenous Women's Health Meeting including Dr Alice Rumbold, Dr Julie Brimblecombe, Dr Ngiare Brown, Maria Nickels, Debbie Taylor-Thompson, Dr Jacqueline Boyle, Dr Sue Sayers and Dr Gurmeet Singh. RANZCOG have subsequently invited Dr Jacqui Boyle and Dr Alice Rumbold to submit a publication of their work.
- Dr Jacqui Boyle and Dr Alice Rumbold made a major contribution to the new edition of the 'Women's Business Manual', which was published during the year.
- The Smokebusters project, led by Dr Paul Burgess, received several awards in the National Heart Foundation 2008 Annual Awards.



Menzies Staff under the Microscope

Ms Maria Nickels – Indigenous Project Officer, Services, Systems and Society Division

Arriving in Darwin in the immediate post-Cyclone Tracy years, Maria Nickels could never have imagined what the future held. Back then this Noongar woman from Northam in Western Australia's wheat belt area was in her early 20's and working as a hairdresser, and a career in health research was the last thing on her agenda.

Thirty years on, she's a fully trained Aboriginal Health Worker employed by Menzies as an Indigenous Research Assistant on a number of projects. She's also a wife, mother and grandmother who has well and truly made Darwin her home.



"We'd go out for a week at a time visiting communities. We probably covered about 10-11 communities over a 14-month period and ended up seeing 525 women."

"I worked for 23 years as a hairdresser in Darwin and it did me well, it's a good profession," Maria says. "But I always wanted to do something to help my people".

"One of my friends did the Aboriginal Health Worker course and said to me, 'if I can do it, so can you'. That was a bit confronting because I hadn't studied for so long, I didn't know if I could cope with the study."

"In the end I did the course through Danila Dilba Health Service, which took me 12 months full-time while I kept working part-time as a hairdresser. I had a great lecturer and a great boss, who were extremely supportive."

Maria finished her course in 1997 and soon found a job at Danila Dilba, where she worked for the next nine years in a variety of roles. She developed a particular interest in women's health, and spent several years in the Gumilebirra Women's Health Unit.

But by 2007 Maria was ready for a change. When she was approached by Menzies to join the Services Systems and Society Division as an Indigenous Project Officer, she jumped at the chance. The first project she worked on was the SISTER Study vulvar cancer project, which required plenty of travel throughout the East Arnhem region doing well-women checks.

"We'd go out for a week at a time visiting communities. We probably covered about 10-11 communities over a 14-month period and ended up seeing 525 women."

"For me it was a bit of an eye-opener as I'd never experienced much of the Territory outside Darwin. Seeing how Top End Aboriginal people live and learning about their culture, and especially about women's business, was an amazing experience."

With the SISTER Study now winding down, Maria has moved on to two other projects: Antenatal Screening for Foetal Anomalies in Indigenous Women, and the Accurate Assessment of Renal

Function and Progress of Chronic Kidney Disease in Indigenous Australians (known as the eGFR Study).

"On the antenatal screening project I'm developing resources around the screening and diagnostic tests available in the first trimester of pregnancy. These resources will help service providers explain these tests to Indigenous women, so that the women can make an informed decision about whether or not to choose screening tests for fetal anomalies."

"The chronic kidney disease project represents a fresh challenge for me, and I'm learning new skills around measuring obesity and diabetes risk. Kidney disease is a huge problem for Aboriginal and Torres Strait Islander people, with diabetes being the leading cause of kidney failure within this population."

"By assessing kidney function in high-risk Aboriginal and Torres Strait Islander populations from northern Queensland, the Territory and Western Australia, we aim to determine a validated and practical measure of GFR (glomerular filtration rate) suitable for use in all Indigenous Australians."

Both projects run for 12 months but Maria says she's confident more work will come her way once the projects end. In the meantime she's setting her sights on doing an Indigenous midwives course at CDU next year, which will open up still more career options.

"Whatever happens I'll be staying in Darwin. I love the lifestyle up here and I love the work."

Want to work or study at Menzies?

Visit www.menzies.edu.au for more information about employment and education opportunities.



Professor Bart Currie
Divisional Leader, Tropical and Emerging Infectious Diseases Division



tropical and emerging infectious diseases division



The north of Australia may be a tropical paradise, but it also boasts some of the deadliest creatures in the world and its climate provides a fertile breeding ground for many tropical infectious diseases.

The Tropical and Emerging Infectious Diseases Division at Menzies is world renowned for its pioneering work in preventing and treating tropical infections and life threatening stings and bites and tracing the natural history of microscopic and macroscopic killers.

Our state-of-the-art laboratory equipment and methods are used to unravel the mysteries of infectious diseases in our region and to guard against new and expanding threats to our health in the light of environmental challenges such as climate change.



tropical and emerging infectious diseases division

Research Priorities

The Tropical and Emerging Infectious Diseases Division will continue to investigate specific illnesses of priority and monitor emerging infectious diseases in Indigenous people and others living in tropical and remote environments. The Division's research portfolio covers skin health, scabies and streptococci; melioidosis and emerging infectious diseases; local impacts of global climate change; adult respiratory health; and tropical toxinology.

The Division will focus on the prevention, diagnosis and treatment of current and emerging diseases. Epidemiology, clinical observations and basic laboratory work are interlinked with our multi-discipline approach to seeking a better understanding of the underlying disease processes and the complex influences over our unique and changing environment.

Importantly, the research of this Division, along with that of the International Health Division, will continue to strengthen Australia's capacity to prevent and respond to emerging tropical health threats in our region.

Looking Forward

The Division is moving into particularly productive and exciting times. Divisional tropical toxinology researchers are coordinators of the prospective Australian Snake bite project, which will translate recent results into revised guidelines for the use of antivenoms in the treatment of snake bite and improved methods of first aid.

Melioidosis researchers will continue to consolidate their position as world leaders in the understanding and treatment of this disease. Research to be carried out in the next 1-2 years and funded by the US National Institutes of Health will make use of the superb collection of *Burkholderia pseudomallei* isolates held at the Menzies to identify genes associated with virulence and different forms of melioidosis. This will form the basis of gene-based smart diagnostics that can be used directly on clinical samples. The other major direction of the melioidosis group is the identification of environmental drivers of this disease. The 'melioidosis' map will be refined and factors, both natural and non-natural, that impact on the risk of disease will be identified. This work will be translated into guidelines for rural and urban land use and development.

Research into the major skin pathogens continues apace, with the principal focus in the immediate future being the commercialisation of a scabies immunodiagnostic, and the determination of the genome make ups, population structures and patterns of dissemination of the two major community acquired *Staphylococcus aureus* strains in the Top End.

Finally, Divisional researchers have developed a rapid approach to genotyping bacteria. It is very cheap and robust, and the results can be thoroughly analysed and put into context using bioinformatics. The aim is that this will be transferred to end users, and underpin the development of a unified web-based bacterial genotyping method that is routinely used by most if not all health departments. If possible and appropriate, this will involve commercial arrangements.

Research Projects

Melioidosis and Emerging Infections

- Melioidosis clinical and diagnostic studies in the NT.
- Molecular studies of *Burkholderia pseudomallei*.
- Presence of the Melioidosis bacterium in bore water in rural Darwin.
- Risk assessment for presence of *Burkholderia pseudomallei* in NT waters.
- Using real time PCR to detect the ecological niches of Melioidosis bacteria *Burkholderia pseudomallei* in endemic tropical Australia.
- High-resolution/highly sensitive assays for forensic analysis and attribution of bacterial biothreat agents.
- Surveillance for emerging infectious diseases.

Tropical Toxinology

- Australian Snakebite Project.
- Top End Prospective Jellyfish Study.
- Prospective evaluation of terrestrial and marine envenoming in humans: clinical effects, predictors of severity, toxicokinetics and potential treatments.
- Molecular toxinology of Australian box jellyfish venoms.
- A randomised controlled trial of factor replacement therapy in snake bite coagulopathy.

Adult Respiratory Health

- Selective use of long-term antibiotics for chronic lung obstructive disease in Aboriginal adults.



Highlights of 2008

- Arrival of Assoc Professor Phil Giffard as the Head of Laboratory Science bringing with him two PhD students and significant expertise in the field of antibiotic resistance.
- Development of a new 'high resolution melt'-based method for the genetic fingerprinting of bacteria. This has been proven particularly successful and applied to a range of bacterial pathogens including *Staphylococcus aureus* (golden staph) and group A streptococcus.
- The determination of a unique evolutionary pathway for the newly discovered *Staphylococcus* lineage 'CC75' that is prevalent in the Top End of the Northern Territory.
- Rapid diagnostic tests developed for the highly virulent *Staphylococcus* clone ST93 as well as for two genetic polymorphisms that modulate drug resistance in enteric bacteria.
- Publication of research describing a growing problem with community-associated Methicillin-resistant *Staphylococcus aureus* (MRSA) in Aboriginal communities across northern Australia. Researchers believe the growing epidemic is particularly related to continuing poor skin health and poor quality and overcrowded housing.
- A new genetic structure has been developed that supports the rapid amplification of gene copy number in bacteria. This can have a great effect on antibiotic resistance if the amplified gene is a resistance gene.
- Using known scabies patients and uninfested controls it has been shown that a cocktail of scabies proteins can very specifically and sensitively detect antibodies to scabies mite proteins in scabies infested people. In collaboration with the Burnett Institute in Melbourne we have been investigating the adaption of this laboratory method into a rapid test strip format. It is hoped that this test will be adapted into a rapid and robust strip style test and we plan to validate the test in a community setting over the next two years.
- Divisional researchers have conducted experiments in scabies mites with a range of drug tolerances to determine the activity levels of key enzymes thought to be involved in the drug resistance process. They have identified a single nucleotide polymorphism in the 'knockdown resistance gene' in drug resistant scabies mites and have developed a rapid and robust test to screen mites for this mutation using high resolution melt technology.
- Australian Leishmania lifecycle investigations continued with ongoing phlebotomine sand fly trapping in the Darwin region and *Leishmania* screening of biting midges. The team diagnosed cutaneous leishmaniasis in black wallaroo and agile wallabies and continued surveillance for *Leishmania* in common native mammals from the Darwin rural area.
- The Melioidosis team developed and published a novel molecular typing technique called 'MLVA-4'. This test will be used to help rule out within 24 hours that a melioidosis outbreak is occurring in the community.
- Development of environmental prediction maps for the presence of *B. pseudomallei* for the Rural Darwin region.
- Further expansion of the Menzies *Burkholderia pseudomallei* strain collection and development of new insights into the origins of melioidosis and it's links to the ancient Australian continent.

Skin Pathogens

- An Immunodiagnostic Assay for Scabies.
- Australian Leishmania lifecycle investigation.
- Characterising the biological role of *Sarcoptes scabiei* aspartic proteases.
- Community-associated methicillin-resistant *Staphylococcus aureus*: epidemiology, emergence and treatment.
- Mechanisms of scabicide resistance.
- Mathematical modeling of streptococcal disease.
- Molecular mechanisms of ivermectin resistance in the ectoparasitic mite, *Sarcoptes scabiei*.

Antibiotic Resistance

- β lactamase mediated antibiotic resistance in Gram-negative pathogens : How does genotype relate to phenotype?
- Genetic structures that support copy number plasticity of plasmid-borne blaSHV genes in *Klebsiella pneumoniae*.

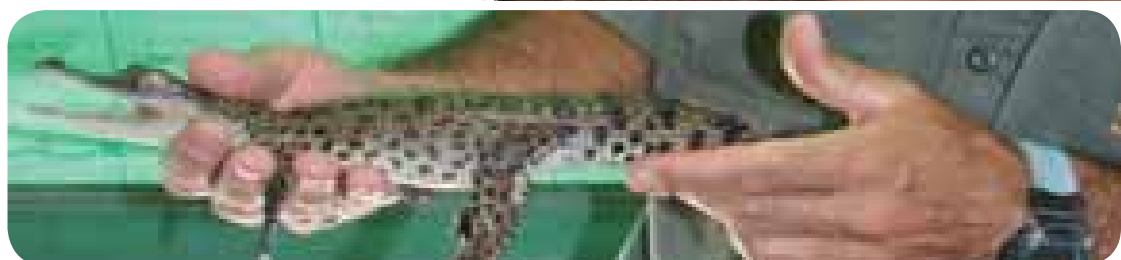
Publications

The Division published 49 papers during 2008. Highlights included (see page 84 for a full list of Divisional publications):

- Cheng AC, Chierakul W, Chaowagul W, Chetchotisakd P, Limmathurotsakul D, Dance DA, Peacock SJ, Currie BJ. Consensus guidelines for dosing of amoxicillin-clavulanate in melioidosis. *Am J Trop Med Hyg* 2008;78:208-209.
- Cheng AC, Ward L, Godoy D, Norton R, Mayo M, Gal D, Spratt BG, Currie BJ. Genetic Diversity of *Burkholderia pseudomallei* Isolates in Australia. *J Clin Microbiol* 2008;46:249-254.
- Currie BJ, Canale E, Isbister GK. Effectiveness of pressure-immobilization first aid for snakebite requires further study. *Emerg Med Australas* 2008;20:267-270.
- Currie BJ. Advances and remaining uncertainties in the epidemiology of *Burkholderia pseudomallei* and melioidosis. *Trans Royal Soc Trop Med Hyg* 2008;102:225-227.
- Honsa E, Fricke T, Stephens AJ, Ko D, Kong F, Gilbert GL, Huygens F, Giffard PM. Assignment of *Streptococcus agalactiae* isolates to clonal complexes using a small set of single nucleotide polymorphisms. *BMC Microbiol* 2008;8:140.
- Isbister GK, Brown SG, MacDonald E, White J, Currie BJ. Current use of Australian snake antivenoms and frequency of immediate-type hypersensitivity reactions and anaphylaxis. *Med J Aust* 2008;188:473-476.
- McDonald MI, Towers RJ, Andrews R, Bengler N, Fagan P, Currie BJ, Carapetis JR. The dynamic nature of group A streptococcal epidemiology in tropical communities with high rates of rheumatic heart disease. *Epidemiol Infect* 2008;136:529-539.
- Mounsey KE, Holt DC, McCarthy J, Currie BJ, Walton SF. Scabies: molecular perspectives and therapeutic implications in the face of emerging drug resistance. *Future Microbiol* 2008;3:57-66.
- Walton SF, Beroukas D, Roberts-Thomson P, Currie BJ. New insights into disease pathogenesis in crusted (Norwegian) scabies: the skin immune response in crusted scabies. *Br J Dermatol* 2008;158 :1247-1255.

Awards and Achievements

- Mr Mark Mayo was the recipient of the 2008 Ryan Family Prize for his work in Melioidosis research.
- Dr Geoff Isbister was awarded the Informa Health Care Award for Best Scientific Presentation at the International Congress of the European Association of Poison Centres and Clinical Toxicology.
- Dr Kate Mounsey was awarded an NHMRC training fellowship to continue her work studying the molecular basis of emerging drug resistance in scabies mite.
- The Skin Pathogens Laboratory hosted a three day workshop at Menzies on the current status of scabies research in Australia. The workshop had 21 participants from five institutions in three different states and was funded by the award of a grant from the ARC/NHMRC Network for Parasitology.
- Mr Wahajat Mahmood was awarded a Pakistan Higher Education Commission scholarship to undertake his PhD studies on the functional analysis of a scabies mite aspartic protease in the Skin Pathogens Laboratory.



Menzies Staff under the Microscope

Dr Mirjam Kaestli – Research Fellow, Tropical and Emerging Infectious Diseases Division

Mirjam Kaestli has survived everything Darwin has thrown at her over the past three years. That includes arriving in the Top End from snowy Switzerland in the middle of the build up, collecting stitches from a wayward yacht boom and working with a deadly bacterial pathogen. So how does she find the place?

"It's a really nice place to live with a laid-back, tropical atmosphere," says this molecular epidemiologist from St. Gallen in Switzerland.



"Meloidosis is a severe disease with an often poor response to therapy; that's why, prevention of infection is important and the knowledge about where in the environment the melioidosis causing bacteria live is the foundation for effective prevention strategies to reduce the burden of this emerging disease."

Mirjam (pronounced Miriam) works in Menzies' Tropical and Emerging Infectious Diseases Division as a senior research officer, and has just finished a large pilot study on the environmental habitat of the melioidosis bacterium *Burkholderia pseudomallei* in the Top End.

To be fair, Mirjam has spent time in other tropical areas, notably Papua New Guinea where she did fieldwork for her PhD research into malaria. At the time she was studying at the Swiss Tropical Institute in Basel, one of Europe's foremost research institutions in the area of tropical diseases.

Once she finished her PhD she decided to concentrate on lesser known tropical diseases, and melioidosis (caused by the bacterium *Burkholderia pseudomallei*) was the one that pricked her interest.

"I approached Bart Currie and he invited me to join a study of the bacterium's habitat in the soil," she says.

Mirjam works in a team of seven and is the lead author of a recently published paper detailing the pilot study's findings regarding the occurrence of *B. pseudomallei* in Top End soils.

"Not much is known about the natural habitat of the bacterium, and it's not really clear why it occurs in some spots and not in others," she says.

"We know that it occurs in moist tropical soils spread between 20°N and 20°S, especially in Australia and South East Asia. More than a thousand melioidosis cases occur every year mainly among rice farmers in Thailand. *B. pseudomallei* also has the ability to infect a lot of animals including livestock, other mammals, birds and reptiles."

Melioidosis is very difficult to treat and is most likely to occur in people with diabetes, chronic renal or lung disease and other conditions that weaken the immune system. Indigenous people account for half of the melioidosis patients in the Top End. This probably relates to an increased exposure to the melioidosis-causing bacterium.

"We're all accidental hosts – the bacterium lives in soil around the roots of plants and, while we still don't know what the relationship is between *B. pseudomallei* and plants, we know that its purpose in life is not to infect us," Mirjam says.

In the pilot study, some 809 soil samples from the Darwin area were screened for the presence of the melioidosis-causing bacterium. One of the key outcomes is that, in areas of disturbed soil such as on farms or residential properties, *B. pseudomallei* was associated with irrigated lawns and the presence of animals. The highest *B. pseudomallei* counts were retrieved from paddocks, pens and kennels holding livestock and dogs.

"This has implications for how we manage development activities, with the main concern being that the melioidosis-causing bacterium could spread due to changes in land management," Mirjam says.

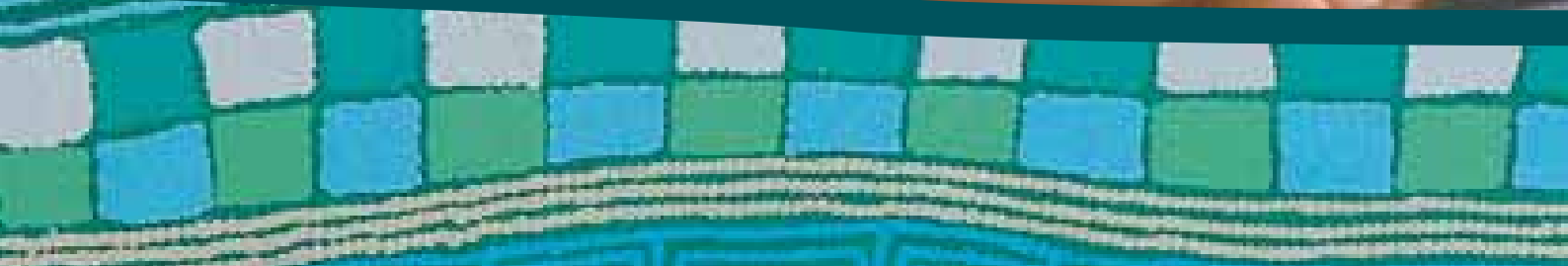
When she's not at work Mirjam is a keen sailor, scuba diver and bushwalker and this year aims to go skiing in the Snowy Mountains.

Want to work or study at Menzies?

Visit www.menzies.edu.au for more information about employment and education opportunities.



Dr Kate Senior
Divisional Leader, Education and Training Division



education and training division



The Education and Training Division offers a unique range of training and education options which focus primarily on Indigenous and tropical health. The programs attract students locally, nationally and internationally from a range of backgrounds which adds to the multicultural and diverse flavour of the courses on offer.

Areas of expertise include:

- Public health coursework options with a focus on Northern Australia and tropical public health
- Postgraduate research opportunities
- A range of short courses

Students locally, nationally and internationally are attracted to the unique focus on Indigenous and tropical health which Menzies' training and education programs offer. Our programs are taught by active researchers who deliver topical and stimulating content to a diverse range of participants.



education and training division

Menzies offers a range of courses for all academic levels and areas of interest. This includes Public Health Coursework targeting people currently working or moving into a public health environment. It enables them to develop their professional skills in the field of Indigenous, International, tropical and remote health. Our program comprises Graduate Diploma, Master and Professional Doctorate levels. Our coursework program is accredited through Charles Darwin University, and Menzies' membership of the Australian Network of Academic Public Health Institutions (ANAPHI) ensures our coursework is competitive nationally.

We oversee postgraduate research students, and provide these students with the skills necessary to complete their projects, in partnership with our supervising senior research staff.

We engage leading Australian researchers to develop and deliver topical short courses to enhance the range of electives available to our public health students, the professional development of Menzies staff and the wider public health workforce. These short courses also attract interstate participants including postgraduate public health students enrolled elsewhere in Australia.



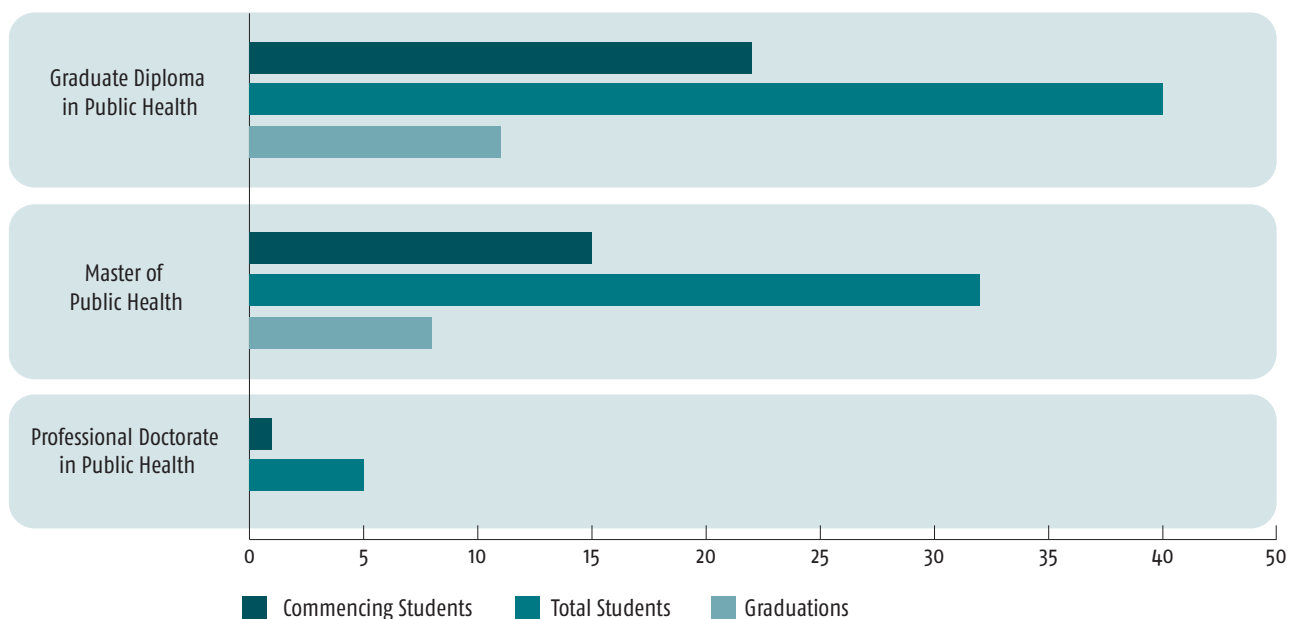
Ms Alyson Brown – winner of the 2007 Val Asche Prize

Key Achievements in 2008

- Exploring Public Health is an undergraduate unit which was developed by Menzies for the Charles Darwin University Bachelor of Biomedical Science. This initiative will provide an additional pathway for students to enter public health training and will be offered for the first time in Semester 1, 2009.
- The Division employed two new part-time Indigenous lecturers with the aim of increasing the Indigenous content in all units, recruiting Indigenous students and providing support for Indigenous students.
- Long-term funding has been secured for the development and delivery of a Menzies Research Support and Education Program in collaboration with the NT Department of Health and Families and the NT Clinical School. It will involve development and delivery of research education, including short courses, modules and formally-assessed study units, development of a network of research experts and academics within Menzies, and access to this network for 1:1 consultations for every step of the research process.
- Through Menzies' ongoing relationship with the Batchelor Institute of Indigenous Tertiary Education we conducted a residential workshop at Menzies in March 2008. This is one of our key strategies for developing pathways into postgraduate education and it included sessions on epidemiology, public health and evidence-based practice with eight Menzies-based guest lecturers.
- In March 2008 Alyson Brown was announced as the winner of the 2007 Val Asche Prize for Academic Excellence. Her public health coursework program was outstanding. In early 2009 Dr Val Asche generously increased the size of this prize for future recipients.
- This year two core units previously purchased from the University of Queensland were extensively rewritten and brought in-house. A new unit, Public Health Anthropology, was also developed and delivered.
- A new collaboration was established with the Katherine West Health Board that saw the commencement of web-based teaching/tutorial sessions to staff of remote Aboriginal communities.
- More than 25 Menzies staff members were involved in teaching and tutoring for coursework and short course activities – more than ever before.
- The Population Health Education and Research Program (PHERP) committed to supporting our core funding for public health teaching activities as part of a five year program.



COURSEWORK STUDENT STATISTICS 2007 – 2008



- The 2008 short course program covered a wide range of issues. There were 15 courses, seven with formal assessment available, with close to 300 participants.
- The short course program has provided a greater opportunity for Aboriginal Health Workers and other Indigenous health professionals to participate in public health education and get a 'taste' of the material before making a commitment to degree studies.
- Three Scholarships – the Menzies Scholarship, Gurdiminda Indigenous Health Scholarship and the Alan Walker Scholarship, were established for students showing exceptional research promise in their fields of study. The Menzies Scholarship was not awarded this year but the recipients of the Gurdiminda and Alan Walker Scholarships were Jaqui Hughes and Tom Snelling respectively. MPH Treatise Scholarships were awarded to Catherine Marshall and Anthony Draper.
- Skills workshops in 2008 included essay, thesis and scientific paper writing, quantitative and qualitative data analysis, and presenting at scientific meetings.
- The introduction of fortnightly research seminars for Menzies students gave students the opportunity to present their own work and discuss the process of conducting research with their peers and senior research staff.
- The Division developed the new professional doctorate program, Doctor of Health, in collaboration with the Graduate School of Health Practice. This is ready for delivery in Semester 1, 2009. It is offered as an alternative to a PhD and designed to attract senior public health professionals in the Northern Territory and beyond.
- Major collaborators in developing and delivering our education programs have included the Menzies Indigenous Development Unit, the other Menzies research divisions, the Centre for Military and Veterans Health, the General Practice Network NT, AMSANT, James Cook University, Katherine West Heath Board, the Rural Health Education Foundation and Royal Darwin Hospital.

Looking Forward

Louise Clark, a long term friend and collaborator of Menzies, will take up the position of Education and Training Divisional head in March 2009.

The Research Support and Education Program will be launched, initially in collaboration with the NT Department of Health and Families, the NT Clinical School and the Royal Darwin Hospital.

Menzies will continue to develop short courses that are responsive to the training and professional development needs and interests of our students, staff and other stakeholders.

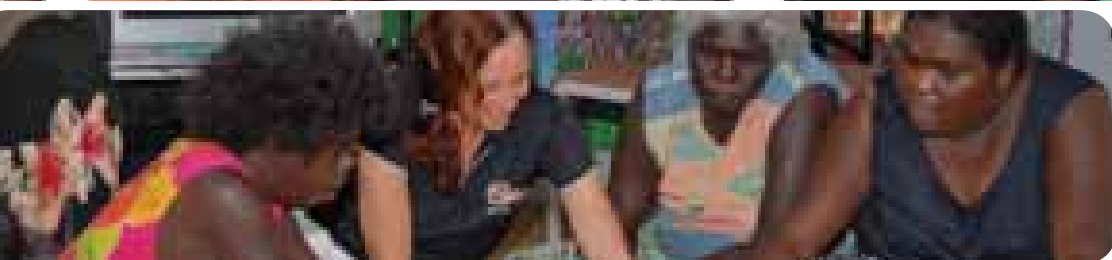
The Education and Training Division will continue to foster greater Menzies staff involvement in teaching and course development and will endeavour to recruit more Indigenous staff and develop ways to attract more Indigenous students working hand in hand with the Menzies Indigenous Development Unit.

An enhanced on line and print marketing program will improve the marketing of our public health course work program and research training opportunities during 2009.

Thanks to a generous donation received from Ms Ros Bracher, the Bracher Scholarship was advertised for the first time in 2008 and will be awarded on an annual basis commencing in 2009.



Louise Clark, who took up the leadership of Education and Training Division in early 2009.



Menzies' Staff under the Microscope

Mr Georges Oteng – Lecturer, Education and Training Division

When Barack Obama won the US presidency late last year, all the people in Georges Oteng's home town of Ugenya, Siaya in western Kenya came out to celebrate.

"We are Luo and Barack's father is Luo, and his home town of Kogelo, Siaya is only 10km from my home town, so for us it was huge," Georges says. "The local joke is that we couldn't get a Luo elected as president in Kenya, so we had to be satisfied with having a Luo as US President instead!"



"It's great to have the diversity of two jobs. The Menzies role allows me to interact with students and pass on my knowledge of public health whilst at the same time learning more about the complexities of Indigenous health."

It's been a long and circuitous route to Menzies for this researcher and lecturer, who was born by the shores of Lake Victoria, grew up in Nairobi, trained as a scientist in the US, ran a mineral water business in Zambia and worked at a bank in Alice Springs before arriving in Darwin in February 2008.

"Alice Springs may sound a strange choice for someone from Africa migrating to Australia but that was where my wife's parents were working, and we wanted to be close to them because we'd just had a baby," Georges says.

"We arrived in July 2006 and I decided to complete a Masters of Public Health through Menzies."

On completing his Masters in 2007, Georges applied for a job in Menzies' Education and Training Division, where he now works as a part-time assistant lecturer. His other job is a research assistant on the Invisible Parents Project at Charles Darwin University.

"The workload is exactly 50:50. The course I lecture in is an introduction into the world of public health. It's great to have the diversity of two jobs. The Menzies role allows me to interact with students and pass on my knowledge of public health whilst at the same time learning more about the complexities of Indigenous health."

His research job, which started in April 2008, involves exploring the barriers to parents' involvement in schools. The research sites are three primary schools in Karama, Palmerston and Katherine, all in the Top End of the NT.

When he's not researching or lecturing, Georges is a keen participant in Menzies' corporate soccer and hockey teams. It may come as a surprise to his team-mates to learn that they have a potential Olympic gold medallist in their midst.

"When I was studying for my science degree at the Morris Brown College in Atlanta, Georgia, I was part of the university's athletics team, where I specialised in the 800m and cross-country events. In 1996 I had one of the best times in the world over 800m, good enough to have won the gold medal at Beijing in 2006!"

"It would have been nice to be a part of the Kenyan national team but the reality is that there is so much long-distance running talent in Kenya, I was only ever on the fringes."

Georges describes Darwin as "very beautiful and tolerant".

"It was very easy for me and my family to settle in – a city of this size is great for its lifestyle," he says. "We want to keep living here no matter what, and I've just been accepted to do a Masters of Science at CDU researching the experiences of African migrants in Darwin and how they become acculturated."

"That will take me a while, and hopefully it will lead onto a PhD."

Want to work or study at Menzies?

Visit www.menzies.edu.au for more information about employment and education opportunities.



Professor John Condon
Divisional Leader, Corporate Services Division



corporate services division



Ensuring that the Menzies research divisions have first class support services is just one of the many roles of the Corporate Services Division. Balancing budgets, coordinating grant applications, communicating our work and engaging corporate and philanthropic partners are just a few of the varied and crucial services which this Division delivers.



corporate services division

It was a challenging year for Corporate Services with unprecedented growth in both budgets, projects and people putting strain on the hard working teams. It was with sadness that we farewelled our leader, John Condon to cooler climes and anticipated the arrival of our new Deputy Director & Division Leader Ross Spark in late 2008.



*Menzies Deputy Director,
Professor Ross Spark.*

Research Administration and Ethics

During the year the research administration team were saddened by the departures of Jill Albion – RAO to the Tropical and Emerging Infectious Diseases Division for the past 7 years – and Kalotina Halkitis, RQF Project Manager. Following Jill's departure, we welcomed Rachel Mayhead to the team.

Significant events in 2008 included the success of NHMRC grant applications. We were absolutely delighted when ten out of 19 NHMRC Project Grants submitted in 2008 were awarded funding to commence in 2009. We were further delighted at the success rate of applications to the Fellowships, Training Fellowships and Scholarships schemes.

The year saw the completion and implementation of Menzies Information Privacy and Peer Review policies. In order to comply with the Australian Code for the Responsible Conduct of Research (2007), further policies are currently being drafted, including Responsible Research Conduct and Data Management, due for completion in early 2009.

Post-award management of scholarships was transferred to the Education & Training Division of Menzies during 2008. With the creation of a Scholarships Officer position, research students can now get a range of support for ongoing enrolment and scholarship issues from the one person.

During the course of the year the "RAISE (Research Admin Information Systems Enhancements) Project" commenced. In response to the 2007 review of procedures and information systems, and following completion of an organisation-wide IT review, we have recently contracted a service provider to assist with this. The aim of this project is to enhance the functionality of our electronic systems and streamline workflows to create time efficiencies in data entry and reporting.

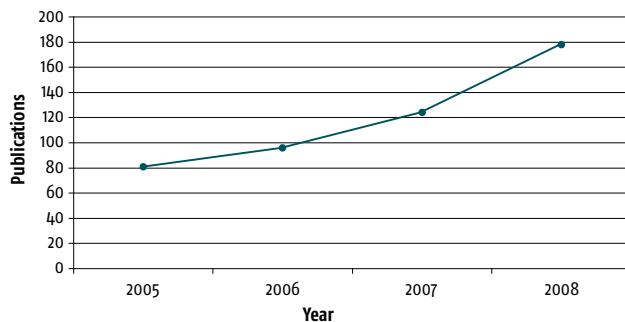
Ethics Administration continued to be ably provided by Maria Scarlett. The focus for 2008 was on ensuring committee membership remained compliant with regulatory requirements; raising awareness of ethical standards amongst academic staff, students and reference groups; and reviewing the HREC policy and procedures manual to ensure compliance with the revised National Statement released in 2007. Maria, in conjunction with the Education & Training Division, was also responsible for bringing the Monash Bioethics Workshop to Darwin during April.

This was attended by many members of the ethics committees, and it is hoped that this may again take place with broader involvement of academic staff in 2010.

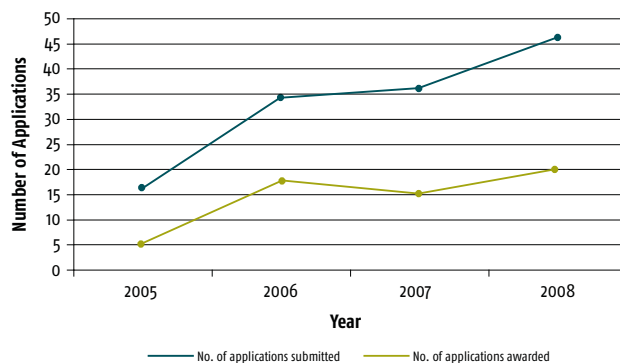
Research and Ethics Administration staff also participated in professional development activities, including attendance at conferences, seminars and workshops.

Challenges for the Research and Ethics Administration Team during 2009 include increased staff workload, completion of policies and procedures, implementation of awareness raising activities for researchers, and the RAISE project.

NO. OF PUBLICATIONS



NHMRC GRANTS incl. projects, fellowships, scholarships etc





Financial Services

It was a demanding year for Financial Services as Menzies growth continued with an increased volume in financial transactions, increased payroll activity due to new staff, contract extensions and staff turn over. Also the number of new projects commencing, grants submitted and an ever increasing number of active projects to manage.

The year started with the arrival of Mr Shane Smith CPA, Financial Controller and Ms Debbie Wang, Finance Assistant. During the year Mr Smith acted as Team Leader of Corporate Services in the absence of a Deputy Director.

During the year Financial Services provided legal advice on contracts, commercialisation support to successful research projects and the provision of business development advice and support to Menzies. Financial Services also continued to work closely with other sections of Corporate Services Division to improve the efficiency and effectiveness of services provided.

Other challenges throughout the year included the treasury function with rising and then falling interest rates to manage and contend with, updating the Finance Committee Terms of Reference for the first time since 1991, assisting with the leasing of office space in Winnellie to house 77 staff, commencing functional design on the building extension work and internal reviews of travel arrangements and salary packaging.

Financial Services also continued as Centre Agents for the Cooperative Research Centre for Aboriginal Health in providing financial management services and advice on a wide range of matters.

Human Resources

The Human Resource Unit has experienced a significant turnover in its staff in 2008 with new staff commencing in all three HR roles.

Recruitment was the biggest priority for the Unit again this year with a 15 per cent increase in overall staff numbers. However, this increase does not accurately depict the recruitment activity level for the year. One hundred and eighteen new employees commenced at Menzies from 1 January 2008 to 31 December 2008. Of these employees there were fifty-eight casuals, forty-nine full-time staff and eleven part-time staff – almost ten new employees per month to be recruited and loaded onto the payroll system.

Indigenous staff numbers remained steady from last year at thirty one. Unfortunately, this does represent a fall from 17.5 per cent of all Menzies staff to 14.5 per cent because of the increase in overall staff numbers. It is expected that targeted recruitment campaigns in early 2009 will begin to increase the numbers of Indigenous employees at Menzies.

The Human Resources Unit continues to service and support a large interstate workforce. Over 20 per cent of all Menzies staff work either from Alice Springs or interstate.

The Employee Assistance Program with EASA has been utilised by 17 employees in 43 counselling sessions throughout 2008. This amounts to an uptake of the service by 8 per cent of employees throughout the first full year of the Program.

Despite the heavy recruitment load, the HR unit was able to implement some exciting new services in 2008 including the purchase of a suite of training materials for the delivery of training to work teams in areas such as assertiveness, team building, conflict resolution, counselling skills for managers, providing feedback and coaching. In early December the Senior HR Officer travelled to Newcastle to deliver the first of the new training services in a teambuilding activity for the SCARF team's quarterly meeting.

The roll out of the Menzies Performance Development System to all staff was another significant accomplishment for 2008. The system will be further enhanced next year with the implementation of the Aurion Career Manager Module (a module of Menzies payroll system) which will allow performance development to be managed electronically.

Updating policies was another priority for 2008 with the Staff Representative, Termination, Professional Development Recruitment and Selection Kit, General Staff Reclassification, Honorary Appointments and the TOIL (time off in lieu of overtime) policies all updated.

Operations

The year brought new staff to the Operations team who managed to recruit and retain a new Receptionist and also a part-time Corporate Services Support Officer.

Management of Menzies laboratory facility benefitted immensely with the appointment of a Laboratory Support Assistant & the arrival of Assoc Professor Phil Giffard as Head of Laboratory Science.

Both appointments and the upgrading of the IT Co-ordinator's position to IT Manager thus releasing the Operations Manager from related role-specific duties has improved efficiencies in Operations.

With the rapid increase in new staff and students coming on-board workspace, provision of infrastructure resources & travel requisitions have multiplied exponentially.

A new e-form and Travel Policy are being developed and by early 2009 leased premises in Winnellie will have been fitted-out to accommodate an extra 70 people.

Information Technology

The Information Technology team serves Menzies staff, researchers and project teams through a series of services that includes integrating computer systems, coordinating and providing training, negotiating and managing information technology related contracts, and technology assistance and support. The team creates the technological environment that enables Menzies employees to quickly access vital information using the most efficient and cost effective system hardware and software. The team provides leadership as an active partner in the regional Northern Territory telecommunications and data-sharing networks.

Last year saw some significant upgrades to the IT system as well as some major challenges. Menzies network infrastructure was obsolete. Old cabling/technologies with low bandwidth switching. Network equipment was apprx so 2008 included some major upgrades including replacement of all of Menzies Switch infrastructure to new 1 Gigabit per second, Power over Ethernet (POE) technology switches significantly enhancing the desktop experience and providing for the possibility of exploring Voice over IP (VOIP) trails in 2009.

Internet Bandwidth was increased between Menzies and the rest of the world from 100 Megabits per second to 1 Gigabit per second to cater for research tools/collaboration that required high speed connections.

Knowledgetree Document Management Pilot conducted and implemented as an Enterprise Document Management solution in 2008. To date this system has had low take up, however, has had some success for remote collaborators.

There was significant investment in video conferencing in 2008 and early 2009 including linking the new Menzies offices at Winnellie with the John Mathews Building via seminar recording, web streaming, and local video conference facilities.

Biostatistics and Database Management

Menzies is currently conducting a large number of projects on a wide range of topics including Indigenous health, malaria, melioidosis and the relationship between low birth weight and chronic disease in later life. The biostatistician and database manager provide assistance with writing grant applications and in the planning, design and implementation of individual projects. We are responsible for the maintenance of the databases (using Access and/or MySQL), providing assistance with data input and analysis, interpreting results and for archiving the data when a project is complete. We also offer training courses in the use of the statistical package Stata. Menzies also works with health professionals working at the Royal Darwin Hospital, CDU and other external agencies.

Communications and Fundraising

It was a big year for the Communications and Development team.

Early 2008 saw the publication of Menzies first newsletter, Discover Menzies, which is now published twice a year and distributed to almost 1500 people across the nation. It also saw the publication and distribution of a series of fact sheets about each research Division, Education and Training and the Indigenous Development unit and corresponding posters to be used at conferences and community events.

The organisation continued to adopt the new branding which was created in 2007 and a series of templates were developed to allow staff to accurately reflect the new style guide in all correspondence and publications.

Menzies media activity increased during 2008 with 361 mentions of Menzies, Ochre and the Rioli Fund for Aboriginal Health. This is a 60 per cent increase year on year and the quality of the coverage received was consistently high. The Communications and Indigenous Development teams developed an in house media training course available to all staff. This was successfully run in 2008 and more sessions are planned in 2009.

The year saw planning for the new Menzies website which will 'go live' in early 2009. This will include the ability to accept online donations and information about the many ways in which the community can support Menzies' work.

The communication team worked in conjunction with the National Rugby League and Velocity Brand management to take NRL football to the heartland of the AFL... the Tiwi Islands. The 'Tackling Health Head On' event not only gave the Tiwi kids the chance to improve their skills but also delivered important health messages and rewarded them with some NRL merchandise for taking part. It is hoped that this event will be repeated in another location in 2009.

Menzies fundraising team had a huge year which commenced with the establishment of the Menzies Development Committee – a sub committee of the Menzies Board. Membership of the committee is currently at six and includes expertise in digital technologies, law, philanthropy, business and sport. The committee is brimming over with ideas and enthusiasm and has already contributed a great deal to Menzies' fundraising programs. This is set to continue in 2009.

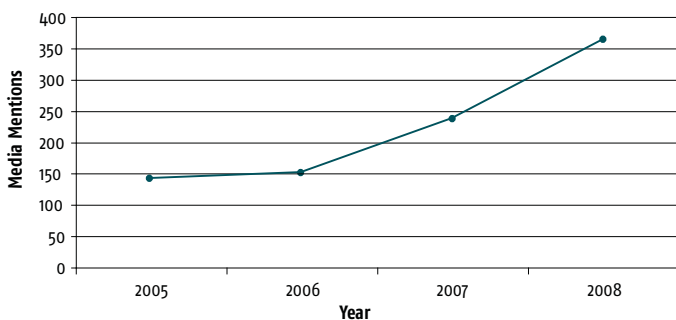
The major event on fundraising calendar for Menzies in 2008 was the establishment of 'Ochre – supporting Indigenous health through art' a major fundraising event which was held in Melbourne in October 2008. This event helped to raise over \$250,000 for Indigenous child health research at Menzies and also brought on board hundreds of new supporters thanks to the support and enthusiasm of Mr David Smorgon as Ochre Ambassador and the Ochre Committee chaired by Ms Liza Boston.

Menzies and the Rioli Fund for Aboriginal health were thrilled to secure the services of Mr Kevin Sheedy as Official Ambassador for the Fund and the on going commitment and enthusiasm of Mr Dean Rioli as founding Chair and driving force behind the initiative. The Fund established its own website during 2008, www.rioli.org.au, which will be further enhanced during 2009.

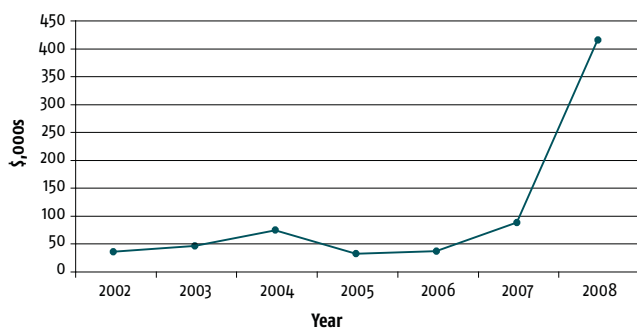
As a result of many of the above initiatives, the Communications and Development team helped to raise a total of \$626,360 for Menzies in cash and in kind donations. This exceeded the fundraising target of \$213,000 by \$413,360.

The coming year will be another challenging one for the Communications and Development Unit with the global financial crisis likely to impact on people's ability to donate to and sponsor our research and other activities. There are several major events and initiatives planned for the year including an Ochre fundraising lunch, a new Ochre website, a new and exciting partnership with Territory Discoveries and NT Tourism and several Rioli Fund and Hawthorn FC activities.

NUMBER OF MEDIA MENTIONS



PRIVATE AND PHILANTHROPIC DONATIONS



Supporters, donors and sponsors in 2008

Visionary Discovery Partners

Arnhemland Progress Association
Cabrini Health Australia
Channel 7 Children's Research Foundation
Children's First Foundation
Diabetes Australia Research Trust
GlaxoSmithKline Australia
Ian Potter Foundation
Kidney Health Australia
Kiwianis
Menzies Foundation
National Heart Foundation
National Rural Health Alliance
Pfizer
Pratt Foundation
Sidney Myer Fund
UNICEF
Wellcome Trust
World Heart Foundation
Vodafone

Discovery Partners

Clive and Vera Ramaciotti Foundations
Dame Elisabeth Murdoch, AC DBE
Financial Markets Foundation for Children
Harold Mitchell Foundation
Paspaley Pearls
Royal Australasian College of Physicians
Telstra

Platinum Friends of Menzies

Alcohol Education and Rehabilitation Foundation
BHP Billiton
Boston Digital
Castan Family
Connie and Craig Kimberley
Cutting Edge
Cracked Pepper Communications
David Smorgon OAM
Fox Family

Helen and Bori Liberman Family
Jack and Robert Smorgon Families Foundation
Mossgreen Auctions
Northern Territory Convention Bureau
Orion Cruises
Pinnacle Printing
Roslyn Bracher
Rebecca Cooper Foundation
Sprout
Trust Company Limited
Tudor Foundation
Velocity Brand Management

Gold Friends of Menzies

Australian Football League
Anne Pitt
Australia Post
Joshua and Karen Liberman
Max and Lorraine Beck
Peter and Alla Lew
Ray Martin
Ray and Margaret Wilson Foundation
Richard and Trish Ryan
Ricoh Australia
Robyn and Ross Wilson
Samantha Pizzi
Victor Smorgon Charitable Fund

Silver Friends of Menzies

Adam Knight
Adrian Hansen
Airthorth
Australian Rotary Health Research Fund
Australasian Society for Immunology
Barbara and Andrew Hardeman
Barry Levy
Bernadette McLennan
BMP Printing
Casuarina Shopping Square
Darwin Hawks Supporter Group

Essendon Football Club
Erin Lawson
Gabriella Roy
Great Southern Railways
Gloria Richards
Helen Rysavy
Heng W The
Ian Jeffrey
John Launder
Leonda by the Yarra
Medhurst Wines
Nick Paspaley
Peter Hylands
Sax International
Scholastic Publishing
Shaun Dennison
Sheila Frey
Simon George and Sons
SJ Design
Skinnyfish Music
Splitrock
Tatjana Plitt
Territory Discoveries
TIO
Tiwi Travel
Tjanabi
Tommy Collins Events
Variety Australia

Friends of Menzies

AB Cole
Alison McElroy
Area 9 IT Solutions
Aunty Doreen Garvey-Wandin
Austin Health Clinical School, Melbourne University
Barbara Hopkins
Bronwen Perry
Chapman and Bailey
Charlotte Ho
Christine and John Collingwood

Christine O'Reilly
 David and Patricia Boyle
 David Taft
 Deanna Cook
 Deb Benkemoun
 Elisa Carson
 Emily Clark
 Eve Taylor
 Frances McCarthy
 George Adams
 GM Marshall
 Graeme Barnes
 Graham Blashki
 Heydon Films
 Holeproof
 Ian Marett
 JR Corcoran
 Lachlan & Julie Carmichael
 Peter & Lee Carmichael
 Lynne Walker MLA
 Margaret Savill
 McCulloch & McCulloch
 Morgon Family
 Nick Ferris
 Nicole MacDonald
 P McGuigan
 Philippa Middleton
 Renee Martin
 Richard White
 Rita Pemberton
 Sharon McHall
 Stella Genser
 Susan Stein
 Suzannah Barrington
 Suzanne O'Connell
 Dr Val Asche
 Unisuper
 Woohah Productions
 Zoran Jugovic

Ochre Art Lovers

Adam Knight
 Adrian Hanson
 Ben Rozenes & Laini Liberman
 David Smorgon OAM
 Don Garden
 Helen and Bori Liberman
 Jeffrey Mahemoff
 Leon Serry
 Lindsay and Paula Fox
 Lorraine Diggins
 Nick Paspaley
 Perry Burstin
 Ross and Robyn Wilson

Partners and Ambassadors

Dean Rioli
 Hawthorn Football Club
 Northern Territory Convention Bureau
 Territory Discoveries
 Orion Cruises
 Kevin Sheedy
 Havington's Hair and Beauty
 Grace Boutique
 David Smorgon OAM

And a sincere thank you to our
 anonymous donors



*Interested in supporting Menzies' research?
 Visit www.menzies.edu.au for more information
 about how to donate.*

Menzies Staff under the Microscope

Rachel Mayhead – Research Administration Officer, Corporate Services Division

As a Research Administration Officer for three Menzies' divisions and an assistant to divisional heads Bart Currie and Nick Anstey, Rachel Mayhead has a lot of ground to cover in a working week.

"The majority of my work is to support researchers get their grant applications together," Rachel says. "I do all the fiddly bits – I probably do about 30-40 applications in a year."



"Long term I'd like to get into something a bit more active, like field work or project management, but the work suits me down to the ground. The Research Admin Team is a great little team. It's nice to work somewhere where I feel I'm making a positive difference to the world I live in. I love the collegiate working environment of Menzies and love the camaraderie."

"I also help out with travel arrangements, conference attendance and publications, collate progress and final reports to funding partners."

Rachel trained as a teacher in her native Tasmania but chucked it all in to follow her partner – a pilot – up to Darwin in 1994. It proved a good decision.

"It was an absolutely atrocious Wet the year we arrived, the worst since Tracy. We lived in a backpackers for three months and absolutely fell in love with the liveliness of the place. People seemed a lot friendlier than in Tassie."

Over the ensuing years Rachel worked in hotels, did some relief teaching in Timber Creek, helped out at the local pub, taught in primary and high schools, then worked at Airnorth, before finally settling down in 2000 at Charles Darwin University where she worked on course promotions, research student administration and international student marketing.

In April 2008 Rachel made the move to Menzies, where she now works for the Tropical and Emerging Infectious Diseases, International Health, and Child Health divisions. Despite already having a year under her belt, Rachel says it will take another three years to even become comfortable in what she is doing.

"Long term I'd like to get into something a bit more active, like field work or project management, but the work suits me down to the ground. The Research Admin Team is a great little team. It's nice to work somewhere where I feel I'm making a positive difference to the world I live in. I love the collegiate working environment of Menzies and love the camaraderie."

For the moment the active part of Rachel's nature is satisfied by her beloved dogs Gus and Jackie, her road trips, her Top End camping expeditions, overseas travel and sailing.

"The Territory is built for road trips and camping. It's like a whole community on the move, especially in the Dry."

She admits that there is also a more academic side to her. "I'm on the verge of finishing a Masters in International Management at CDU and once I've done that, I'm going to indulge myself by taking tennis lessons and learning Tandoori cooking."

"I'd love to travel to India and really want to go walking in the foothills of the Himalayas but my partner isn't as keen as me, so I'll have to make do with some Indian cuisine for a while."

Rachel says she sees herself staying in Darwin for the long term.

"I've watched Darwin grow and there are so many opportunities here for working and living. We've bought a house and I just can't see us moving anywhere else."

She admits to sometimes missing the cold, but she's even got a plan for that.

"One day I'm going to start the Darwin Alpine Club, where like-minded people can get together in a refrigerated container and wear winter woollies and watch Warren Miller films!"

Want to work or study at Menzies?

Visit www.menzies.edu.au for more information about employment and education opportunities.

menzies and the community



Menzies is active in the community at a local and national level. If your community group is interested in raising funds for Menzies research please go to www.menzies.edu.au and download our Community Fundraising Pack.



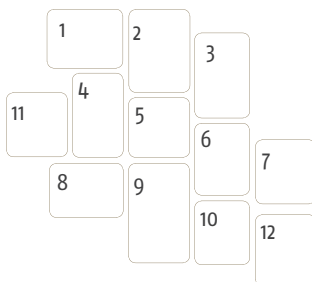
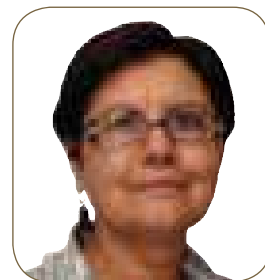
Governance

The Menzies School of Health Research operates as an independent body corporate under the control of a Governing Board. Menzies is a controlled entity of Charles Darwin University.

Menzies School of Health Research is required to furnish an annual report and audited financial statements to an Annual General Meeting of the School, with financial results consolidated within those of Charles Darwin University.

Menzies accounts are subject to audit by the Auditor General of the Northern Territory.

Menzies School of Health Research Board 2008



1. Professor Simon Maddocks (Chair)

Professor Maddocks is the South Australian Chief Scientist, South Australian Research Development Institute Livestock Systems, Roseworthy Campus, University of Adelaide. His research interests are in reproductive immunology and cell biology, and epigenetic influences on foetal development. Professor Maddocks is a Director of the Board of the Sir Robert Menzies Memorial Foundation, and is the Menzies Foundation nominee to the Menzies Board.

2. Mr Peter Carew, AM (Deputy Chairman)

Peter Carew is Director – Technical Group for Regional and Northern Maintenance Services Pty Limited. A Fellow of the Australian Institute of Company Directors, Peter is Chairman of Group Training NT, Australian Technical College – Darwin, as well as the NT Executive of the AICD. Peter is a past President of the Chamber of Commerce NT and in 2003 was appointed a Member of the Order of Australia.

3. Professor Jonathan Carapetis

Professor Jonathan Carapetis is Director of the Menzies School of Health Research. He is a specialist paediatric physician, infectious diseases physician and specialist public health physician. Professor Carapetis' wide range of research interests includes group A streptococcal and pneumococcal diseases, other vaccine preventable diseases, vitamin D deficiency in refugees, and urinary tract infections in children.

4. Professor Bob Wasson

Professor Bob Wasson is the Deputy Vice Chancellor Research Charles Darwin University (since April 2004). Professor Wasson was educated in earth sciences, with a PhD in geomorphology and has subsequently developed his research skills in natural resource management, environmental change, environmental history, and interdisciplinary environmental studies. Professor Wasson has had substantial involvement with national committees in natural resource management and international global change programs, particularly IGBP (International Geosphere and Biosphere Program).

5. Professor Shane Houston

Professor Houston is a Gangulu man from Central Queensland. He has worked in Aboriginal Affairs for more than 30 years mainly in the health and employment areas and is currently Executive Director Systems Performance and Aboriginal Policy at the Northern Territory Department of Health and Families.

6. Mr Michael Martin OAM

Mr Michael Martin OAM is the Chairman of the Menzies Finance Committee and the Menzies Development Committee. Michael is currently Company Director and a Partner in MDS Partners and casual lecturer in Finance and Accounting at CDU. Michael is a Fellow of the CPA Australia and a Graduate Member of the Australian Institute of Company Directors.

7. Ms Kate George

Ms Kate George is from the Murchison District of Western Australia and belongs to the Putejorra people. Kate is the Principal Consultant of Claypan Services Pty Ltd. Kate holds a law degree from the Australian National University and was admitted to practice as a barrister and solicitor in Western Australia (1992) and New South Wales (1989). Kate has provided national consultancy services to private and government sectors as well as Aboriginal communities.

8. Mr Robert Wells

Robert is Co-Director of the Menzies Centre for Health Policy and Executive Director of the College of Medicine and Health Sciences at the Australian National University, Canberra. He works on a range of health policy and systems issues, including primary care, private health insurance, rural health and health workforce. He has participated in national advisory committees on neurosciences research and attracting greater private sector investment in health and medical research.

9. Mr Ken Davies

Mr Davies is currently Deputy Chief Executive at the NT Department of the Chief Minister. In the past Ken has been the Deputy Chief Executive, Education Services, Department of Employment, Education and Training. He has worked in the Northern Territory for the past 29 years, having commenced his teaching career at Papunya in 1978 as a young graduate from Western Australia. He is the former Braitling Primary School Principal and has worked as Principal in Katherine and remote Central Australian community schools.

10. Dr David Ashbridge

David was appointed Chief Executive of the Northern Territory Department of Health and Families in March 2007. David has a long history of service to the Department dating back to 1998 when he commenced as a District Medical Officer in the Top End. He has held a number of senior management positions in the Department. David is a Fellow of Royal Australian College of Physicians (Public Health) and a Member of Royal College of General Practitioners. He holds a Masters Degree in Public Health and an MBBS as well as Diplomas in Child Health and Tropical Medicine. David also holds a Graduate Diploma from the Australian Institute of Company Directors.

11. Professor David Celermajer

Currently David is Scandrett Professor of Cardiology at the University of Sydney; Director of Echocardiography and Cardiologist at the Royal Prince Alfred Hospital; Clinical Director at The Heart Research Institute in Sydney; and Chairman of the Research Committee at the National Heart Foundation of Australia.

12. Professor Helen Garnett (Until December 2008)

Professor Helen Garnett was Vice-Chancellor of Charles Darwin University until December 2008 having commenced in that role in October 2003. Before taking this role, Professor Garnett was the Executive Director of the Australian Nuclear Science & Technology Organisation (ANSTO) from 1994.

Observers of the Board

Secretary to the Board

Mr Brendon Douglas (until May 2008)
Ms Adrienne Farago

CRCAH Chief Executive Officer

Mr Mick Gooda

MENZIES Staff Representative

Mr Trevor Hopps

Board Committees

The Governing Board was assisted by the following committees.

Finance Committee

Mr Michael Martin (Chair)
Mrs Sue Bradley (Independent member)
Professor Jonathan Carapetis
Mr Peter Carew
Mr Shane Smith (Secretary)

Academic Standing Committee

Professor Bob Wasson – Chair
Professor Jonathan Carapetis
Professor Robyn McDermott

Development Committee

Mr Michael Martin (Chair)
Mr Brandon Carp
Ms Pauline Wrobel
Mr Dean Rioli
Ms Liza Boston
Mr Ben Rozenes
Ms Lisa Stapels (Secretary)
Mrs Julie Carmichael (Observer)

Other Committees

Child Health Division Indigenous Reference Group

Mr Marius Puruntatameri
Mr Dennis Booney
Mr Kane Ellis
Mr Lorna Murakami-Gold
Dr Ngjare Brown

Human Research Ethics Committee

Dr Michael Nixon (Chair)
Mr Mathew Antcliff (from April 2008)
Ms Colleen Atkinson

Ms Ruth Billany (from April 2008)
Ms Denise Dickson
Dr Deborah Holt
Mr David Pryce
Ms Maria Scarlett (Secretary)
Dr Gurmeet Singh (from April 2008)
Dr Thomas Snelling (from April 2008)
Ms Helen Spiers
Ms Karyl Taylor
Dr Steven Tong
Ms Barbara Young (August/October 2008)
Major Geneen Wright
Ms Helen Wodak

Aboriginal Ethics Sub Committee

Dr Ngjare Brown (Co Chair)
Ms Joanne Garnggulkpuy (Co Chair)
Mr Peter Pangquee
Ms Kalinda Griffiths
Ms Diane Walker
Mrs Jennifer Ward
Maria Scarlett (Secretary)

Darwin Regional Institutional Biosafety Committee

Mrs Susan Hutton (Chair)
Dr Valerie Asche
Dr Lorna Melville
Dr Shelley Walton
Mrs Maria Scarlett (Secretary)
Ms Pamela Trotman
Mr Paul Southwell
Mr Michael Howard

Laboratory Safety Committee

Mrs Susan Hutton (Chair)
Ms Jo Bex
Ms Kim Hare
Mr Mark Mayo
Assoc Professor Phil Giffard
Ms Linda Viberg

Ochre Committee(s)

Mr David Smorgon OAM (Ambassador)
Ms Liza Boston (Chair)
Mr Paul Sumner
Ms Shareen Joel
Ms Connie Kimberley
Ms Helen Liberman
Ms Laini Liberman
Ms Jennifer Phipps
Ms Hayley Smorgon

Ms Robyn Wilson
Ms Pauline Wrobel
Ms Margie West
Ms Francesca Cubillo
Mr Shaun Dennison
Ms Lisa Stapels (Secretary)
Ms Susie Hopkins (Observer)

Patrons And Members

Official Patron

His Honour Mr Tom Pauling QC, Administrator of the Northern Territory

Patrons

The Hon Austin Asche AC QC
Mr Ron Archer AM
The Hon John Dawkins
Mr Charles Goode
Dr John Hargrave AO MBE
Sir Gustav Nossal AC CBE
Professor Lowitja O'Donoghue CBE AM
Mr William Scammell CBE

MENZIES Medallion Recipients

Dr Valerie Asche
Miss Margaret Brewster
Father Frank Flynn MSC AC*
Mr Harry Giese AM MBE*
Professor Richard Gye AO
Dr John Hargrave AO MBE
Mrs Susan Hutton
Professor David Kemp FAA
Professor John Matthews AM
Mr Ray Norman AM
Dr Brian Reid
Dr KS Sriprakash

Life Members

Dr Keith Fleming
Dr Ella Stack CBE

Menzies Ambassadors

Mr Dean Rioli
Mr Kevin Sheedy
Mr David Smorgon OAM

* Deceased

honorary appointees

Honorary Appointees

Dr Brian ANGUS	Malaria and melioidosis collaboration
Dr Ivan BASTIAN	IMVS facilities and expertise in research projects in East Timor and Indonesia
Dr Craig BOUTLIS	Infectious diseases: Staphylococcus, malaria and pneumonia
Assoc Professor Simon BROWN	Toxinology
Dr Alex BROWN	Metabolic and vascular disease research
Dr Alan CASS	Research into renal disease in Indigenous populations
Dr Alan CLOUGH	Substance misuse
Ms Samantha COLQUHOUN	International child health and rheumatic heart disease
Assoc Professor Kate CONIGRAVE	Epidemiology and substance misuse
Dr Christine CONNORS	Collaboration into remote area chronic disease
Dr Yvonne CUNNINGHAM	Healthy for life and clinical audit protocols
Assoc Professor Nigel CURTIS	Collaborative research into host factors responsible for rheumatic fever pathogenesis
Dr Peter D'ABBS	Collaboration on substance abuse
Mr Peter EBSWORTH	Collaborative research in international health projects
Assoc Professor Russell GRUEN	Population health and epidemiology
Professor Wendy HOY	Renal disease in Indigenous populations
Assoc Professor Paul KELLY	Collaborative research in international health projects
Dr Vicki KRAUSE	Collaborative research into infectious diseases
Mr Richard LUMB	Mycobacteriology at IMVS and IMVS labs for research in East Timor and Indonesia
Dr Dorothy MACKERRAS	Chronic Disease collaboration
Dr Graeme MAGUIRE	Lung Disease Collaboration, International and Indonesia
Dr Matthias MAIWALD	Tropical infectious diseases collaboration
Dr Joao MARTINS	Collaborative research efforts in public health
Professor John MATHEWS	Collaborative research and mentorship
Dr Lorna MELVILLE	Cooperation with Zoonotic Diseases
Dr Bridie O'REILLY	Public health coursework and teaching
Dr Barbara PATTERSON	Collaborative research and teaching
Dr Anna RALPH	International TB research
Professor Karl RIECKMANN	Collaborative research into tropical disease, particularly malaria
Assoc Professor Sue SAYERS	Aboriginal Birth Cohort study
Dr Steven SKOV	Collaboration with Substance Misuse team
Dr Cathy STILTON	Cooperation with Zoonotic Diseases
Dr Sri SRIPRAKASH	Streptococci
Dr Emiliana TJITRA	Strengthening ties with Indonesia, especially in malaria collaboration
Dr Tarun WEERAMANTHRI	Preventable Chronic Disease program in the NT
Dr Richard WEIR	Cooperation with Zoonotic Diseases
Dr AI YONOVITZ	Audiology

research funding

Funding Body	Chief Investigators	Grant Type
Alcohol Education and Rehabilitation Foundation Ltd G0593/D708	NAGEL Tricia	Project
ARC LP0882670 (Administered by Charles Darwin University)	LEA Tess; BARCLAY Lesley; SENIOR Kate	Linkage Project
ARC/NHMRC Network for Parasitology	WALTON Shelley; CURRIE Bart; HOLT Deborah; KEMP David; FISCHER Katja; MOUNSEY Kate	Capacity Building Workshop
Arnhemland Progress Association Inc	BRIMBLECOMBE Julie; GARNGGULKPUY Joanne; BARNES Adam	Project
AusAID	CARAPETIS Jonathan; DOUGLAS Brendon	Fellowship
AusAID 44748 (Administered by Macfarlane Burnet Institute)	MULHOLLAND Edward; ANSTEY Nicholas	Capacity Building
Australasian Society for Immunology	WOODBERRY Tonia	Travel
Australian Academy of Science	BAR-ZEEV Naor	Scholarship
Australian Academy of Science	BOYLE Jacqueline	Scholarship
Australian Biosecurity CRC for Emerging Infectious Diseases 2.29EI	WALTON Shelley; DOUGALL Annette	Scholarship
Australian Research Alliance for Children & Youth	CARAPETIS Jonathan	Project
Australian Respiratory Council	ANSTEY Nicholas; KELLY Paul; RALPH Anna; BASTIAN Ivan; MAGUIRE Graeme; MORRIS Peter	Project
Australian Rotary Health Research Fund (Administered by Maari Ma Health Aboriginal Corporation)	BURKE Hugh; BAILIE Ross; LYLE D; WESTON Richard; KENNEDY Catherine; COOK Margaret-Ann	Project
Centre for Remote Health	MCDONALD Elizabeth	Bursary
Channel 7 Children's Research Foundation of SA Inc	BAR-ZEEV Naor	Project
Channel 7 Children's Research Foundation of SA Inc	SINGH Gurmeet	Project
Channel 7 Children's Research Foundation of SA Inc	WALTON Shelley	Project
Children's First Foundation	CARAPETIS Jonathan; KELPIE Loraine	Contract
Clive and Vera Ramaciotti Foundations RA55/07	TOWERS Rebecca	Establishment Gift
CRC for Aboriginal Health 164	ANDREWS Ross; WALTON Shelley; STIRLING Janelle; CONNORS Christine	Project
CRC for Aboriginal Health CD216	THOMAS David	Project
CRC for Aboriginal Health CD217	BAILIE Ross	Project
CRC for Aboriginal Health CP107	BAILIE Ross; CONNORS Christine; BROWN Alex; CONDON John; JONES Jocelyn; LEWIS Jennifer; ACKLIN Fay; WAKERMAN John; WILSON John; O'DONOHUE Lyn; HALPIN Stephen:Chief	Project
CRC for Aboriginal Health HS262	ANDREWS Ross; CONNORS Christine	Project
CRC for Aboriginal Health SE063	NAGEL Tricia; KAVANAGH David	Project
Department of Health and Ageing	BAILIE Ross	Project
Department of Health and Ageing	CONDON John; CLARK Louise	Contract
Department of Health and Ageing	MCDONALD Elizabeth; BAILIE Ross	Project
Department of Health and Ageing RFT 071/0607	AL-YAMAN Fadwa; BAILIE Ross; CONDON John; JONES Jocelyn; SHIBASAKI Sanchia; SIBTHORPE Beverley; BEATTY Zoe; HALL Sam; HALLIDAY Bianca	Tender
Diabetes Australia Research Trust	MAPLE-BROWN Louise	Project
Financial Markets Foundation for Children 2007-E01 035	BROWN Ngiare; JOHNSTON Vanessa; WINCH Scott	Project
GlaxoSmithKline Australia 11721	CARAPETIS Jonathan; KIRKWOOD Carl; ROSEBY Rob; ROBINS-BROWNE Roy; SNELLING Thomas; ANDREWS Ross	Project
Harold Mitchell Foundation	NAGEL Tricia	Resource Development
Ian Potter Foundation 20070455	LEE Bilawara	Capacity Building

Title	From	To	Total \$ Awarded
Alcohol and Other Drug misuse and Psychosis : Development of a Relapse Prevention Strategy in Remote Indigenous Communities	01-Jul-04	30-Jun-08	\$10,000.00
The invisible parents project – exploring the barriers to effective parental and community involvement in three Northern Territory schools	01-Jan-08	31-Dec-10	\$182,000.00
Scabies workshop to be held in Darwin, 13–15 August 2008	01-Jul-08	31-Dec-08	\$8,500.00
The evaluation of a remote Indigenous store-based budgeting tool (FOODcard) on buying patterns, useage and customer satisfaction	16-Jul-08	31-Oct-08	\$50,000.00
Strengthening Public Health Research and Training Capacities in Timor Leste	01-Mar-07	01-Jul-08	\$46,354.00
Women's and Children's Knowledge Hub Initiative	07-Apr-08	30-Jun-11	\$6,000,000.00
Human immune recognition of Plasmodium hypoxanthing guanine xanthine phosphoribosyl transferase (HGXPRT) following natural parasite exposure	08-Jun-08	13-Jun-08	\$1,500.00
Vaccination strategies to reduce ear disease in Aboriginal and Torres Strait Islander children in the Northern Territory.	1-Jan-07	31-Dec-08	\$14,000.00
Polycystic ovary syndrome, reproductive health and metabolic abnormalities in Indigenous women in the Northern Territory	21-Jun-06	31-Dec-08	\$17,500.00
Australian Leishmania lifecycle investigation	03-Jul-06	02-Jul-09	\$105,000.00
"School Readiness" in Indigenous children – bringing together the health and education research agendas	01-Aug-07	31-Jan-08	\$35,797.00
A randomised controlled trial of L-arginine or vitamin D to improve outcomes in pulmonary tuberculosis	01-Jan-08	31-Dec-08	\$50,000.00
ABCD in a remote NSW context	01-Jan-08	31-Dec-08	
What are the indicators of the key features of the physical environment that promote or impair children's health and wellbeing?	01-May-08	31-Dec-08	\$2,000.00
Burden of severe disease due to influenza and other respiratory viruses in Aboriginal children in the Northern Territory	01-Jan-08	15-Sep-09	\$40,000.00
Prevalence of iodine deficiency in NT Aboriginals of reproductive age	01-Jan-07	30-Jun-08	\$27,000.00
An immunodiagnostic assay for scabies – Year 2	01-Jan-07	30-Jun-08	\$45,000.00
Getting Every Child's Heart Okay (gECHO)	28-May-08	30-Sep-10	\$207,000.00
Assessment of cardiac autoantigens as markers to aid in the diagnosis of acute rheumatic fever	01-Jan-08	31-Dec-08	\$30,000.00
Filling the Gaps in the Healthy Skin Program: Additional laboratory, clinical and epidemiological components	01-Oct-05	30-Sep-08	\$722,000.00
Monitoring and Evaluating Aboriginal Tobacco Control	19-Feb-07	18-Feb-09	\$240,028.00
A structured systems approach to improving health promotion practice for chronic disease in Indigenous communities	01-Apr-07	30-Apr-08	\$696,980.00
Audit and Best Practice for Chronic Disease Extension	01-Jan-05	31-Dec-09	\$897,900.00
Community consultation at Galiwinku for an ivermectin-based treatment intervention to reduce scabies and strongyloides	12-Aug-08	01-Sep-09	\$20,000.00
Australian Integrated Mental Health Initiative- NT	01-Jul-03	31-Dec-09	\$225,420.00
Audit and Best Practice Chronic Disease Extension	01-Jul-05	31-Dec-08	\$400,000.00
Yolngu Life : Yolnguy Walngakum.Building Healthy Communities – Phase 3	31-Oct-06	30-Jun-08	\$335,909.19
Using environmental health indicators to promote healthy living environments in remote Indigenous communities	01-Apr-08	30-Jun-08	\$28,140.00
The Healthy for Life Support, Collection, Analysis and Reporting Function	30-Mar-07	31-Dec-09	\$6,169,572.00
A randomised trial of rosiglitazone versus metformin monotherapy in Aborigines with Type 2 Diabetes: effects on metabolic and cardiovascular parameters	01-Jan-07	31-Dec-08	\$50,000.00
Evaluation of the role and function of an Indigenous Reference Group (IRG) as a model for conducting research involving Indigenous children in the Northern Territory	31-Dec-07	31-Dec-08	\$44,000.00
Effectiveness of rotavirus vaccine for the prevention of gastroenteritis among hospitalised children in the NT	13-Feb-08	13-Feb-09	\$179,481.00
Australian integrated mental health initiative in the Northern Territory (AIMHINT) DVD Trainingand education resources	01-Aug-07	31-Jul-08	\$23,000.00
The Ian PotterFoundation Indigenous Research Fellowship	01-Jan-07	31-Dec-11	\$192,000.00

research funding

Funding Body	Chief Investigators	Grant Type
Ian Potter Foundation 20080506	DOWDEN Michelle	Travel
Ian Potter Foundation 20080529	RICHARDSON Leisha	Travel
Ian Potter Foundation 20080745	NOONAN Sara	Travel
Ian Potter Foundation 20080753	HARE Kim	Travel
Ian Potter Foundation 20080759	MCCALLUM Gabrielle	Travel
Ian Potter Foundation 20090153	TOWERS Rebecca	Travel
Kidney Health Australia	LAWTON Paul; MAPLE-BROWN Louise	Pilot Project
Menzies Foundation	CARAPETIS Jonathan; DOUGLAS Brendon	Capacity Building
National Heart Foundation	BAILIE Ross; McDONALD Malcolm; DOWDEN Michelle; CARAPETIS Jonathan; EDWARDS Keith	Project
National Heart Foundation	TOWERS Rebecca	Travel
National Heart Foundation G 06B 2464	TOWERS Rebecca; FAGAN Peter; CURRIE Bart; CARAPETIS Jonathan	Project
National Institutes of Health (Administered by Queensland Institute of Medical Research)	GOOD Michael; CARAPETIS Jonathan; MULHOLLAND Edward; BATZLOFF Michael; HOYER W; MCLEAN Allen; OLIVE C; SRIPRAKASH Kadaba; TOTH Istvan	Project
National Institutes of Health (Administered by University of Utah)	GRANGER Donald; ANSTEY Nicholas; LOPANSRI Bert; HYLAND Keith; STODDARD Greg; PASQUALI Marzia	Project
National Institutes of Health U01 A1075568 (Administered by Northern Arizona University)	KEIM Paul; CURRIE Bart; MAYO Mark	Project
National Institutes of Health 5R01 A1041764-08 (Administered by Duke University)	ANSTEY Nicholas; TJITRA Emiliana; WEINBERG J	Project
National Rural Health Alliance Inc	BRIMBLECOMBE Julie	Project
NHMRC	MARSH Robyn	Travel
NHMRC 236235	CUNNINGHAM Joan; ANDERSON Ian; BAILIE Ross; LEWIS Jennifer; BARNES Anthony (Tony)	Capacity Building
NHMRC 264582 (Administered by University of Melbourne)	NOLAN Terry; CARAPETIS Jonathan; BUTTERY J; JOHNSTON L; SAWYER S; MULHOLLAND Edward; CURTIS Nigel; OBERKLAID F	Centre of Excellence
NHMRC 283303	BAILIE Ross	Research Fellowship
NHMRC 283310	CUNNINGHAM Joan	Career Development
NHMRC 283312	LEACH Amanda	Career Development
NHMRC 283321	ANSTEY Nicholas; TJITRA Emiliana	International Collaborative Research
NHMRC 283325	CAIRNEY Sheree	Training Fellowship
NHMRC 283327	SMITH-VAUGHAN Heidi	Training Fellowship
NHMRC 290208 (Administered by Queensland Institute of Medical Research)	KEMP David; GOOD Michael; SRIPRAKASH Kadaba; TOTH Istvan; ENGWERDA Christian; ANSTEY Nicholas	Program
NHMRC 301038	CHANG Anne	Practitioner Fellowship
NHMRC 320858	MORRIS Peter; SLADE Gary; ROBERTS-THOMSON Kaye; LEACH Amanda; BAILIE Ross	Project
NHMRC 320860 (Administered by University of Melbourne)	O'DEA Kerin; HOY Wendy; ROWLEY Kevin; BEST James; WANG Zhiqiang	Program
NHMRC 320869	ISBISTER Geoffrey	Career Development
NHMRC 323248	CHENHALL Richard	Training Fellowship
NHMRC 333416	BURGESS Paul	Scholarship
NHMRC 333421	BURGESS Paul; JOHNSTON Fay; CONNORS Christine; MCDERMOTT Robyn; ROBINSON Gary; BAILIE Ross	General Practice Clinical Research Grant
NHMRC 350499	ANDREWS Ross; CARAPETIS Jonathan; LEACH Amanda; MORRIS Peter; MULHOLLAND Edward	Project

Title	From	To	Total \$ Awarded
International Forum of Quality and Safety in Healthcare, Paris, France 22-25 April 2008	20-Apr-08	27-Apr-08	\$2,000.00
XVII Lancefield International Symposium on Streptococci and Streptococcal Diseases (LISSD), Porto Heli, Greece, 22-26 June 2008	22-Jun-08	26-Aug-08	\$1,500.00
Lancefield International Symposium on Streptococci and Streptococcal Diseases	22-Jun-08	26-Jun-08	\$2,000.00
Travel Grant for 6th International Symposium on Pneumococci and Pneumococcal Diseases (ISPPD6)	01-Jan-08	31-Dec-08	\$2,000.00
Travel to attend 6th International Symposium on Pneumococci and Pneumococcal Diseases.Reykjavik, Iceland.08-12 June 2008.	08-Jun-08	12-Jun-08	\$1,500.00
Travel to attend the 6th International Congress on Autoimmunity	10-Sep-08	14-Sep-08	\$2,000.00
Validating estimates of glomerular filtration rate (GFR) in Aboriginal and Torres Strait Islander Australians	01-Aug-07	30-Jun-08	\$50,000.00
Strengthening Indigenous health research capacities	01-Dec-06	30-Sep-08	\$50,000.00
Audit & Best Practices in Chronic Diseases – Rheumatic Heart Disease Continuous Quality Improvement	31-Dec-07	31-Dec-08	\$75,000.00
XVIII Lancefield International Symposium on Streptococci and Streptococcal Diseases	21-Jun-08	28-Jun-08	\$2,000.00
Investigation of human heart antigens identified by screening a cDNA library using ARF sera	01-Jan-07	30-Jun-09	\$30,000.00
Global GAS vaccine based on the M-Protein	15-Sep-04	31-Aug-09	\$33,264,835.00
Hyperphenylalaninemia in cerebral malaria	01-Jul-05	30-Jun-10	\$1,250,000.00
Burkholderia: international collaborative development of novel diagnostics	10-Sep-07	31-Aug-09	\$1,193,761.00
Nitric oxide and severe malaria (II)	01-Sep-03	30-Apr-09	\$1,600,000.00
Remote Indigenous Stores Project	05-Feb-07	31-Dec-08	\$98,800.00
Attendance at the Australian Academy of Science's Annual Science at the Shine Dome	07-May-08	09-May-08	Costs of Attendance
Building capacity in policy relevant, quantitative, social analysis and research in Indigenous health	01-Jan-04	30-Jun-09	\$2,437,000.00
Centre for Clinical Research Excellence in Childhood and Adolescent Immunisation	01-Jan-05	31-Dec-09	\$2,000,000.00
Fellowship in Indigenous Environmental Health and Health Services Research	01-Jan-04	31-Dec-08	\$571,250.00
Social and system determinants of Indigenous health	01-Jan-04	31-Dec-08	\$467,500.00
Reducing the burden of infectious disease in young Aboriginal children – an evidence-based, multidisciplinary approach	01-Mar-04	28-Feb-09	\$426,250.00
Research and training to reduce morbidity and mortality from malaria in Papua (Indonesia) and Papua New Guinea	01-Jan-04	31-Dec-08	\$1,649,830.00
The development of culturally-appropriate cognitive assessments with applications in substance abuse and mental health with Indigenous clients	01-Jul-04	30-Jun-08	\$259,000.00
Applying molecular public health in Indigenous communities: Linking research to outcomes	01-Jan-04	31-Dec-08	\$129,500.00
Tropical Infectious Diseases – Pathogenesis and Vaccine Research	01-Jan-04	31-Dec-08	\$8,853,837.00
Aspiration lung disease and chronic cough in children – Novel and objective techniques	01-Jan-04	31-Dec-08	\$372,750.00
Development and evaluation of a primary health care model to prevent dental decay in Aboriginal pre-school children	01-Jan-05	31-Dec-08	\$1,585,800.00
Health Outcomes Monitoring and Evaluation : Learning about Activity, Nutrition, Diet and Social factors (HOMELANDS)	01-Jan-05	31-Dec-09	\$7,070,585.00
Prospective evaluation of terrestrial and marine envenoming in humans: clinical effects, predictors of severity, toxicokinetics and potential treatments	01-Jan-05	31-Dec-09	\$486,250.00
Best practice guidelines for evaluating Indigenous residential alcohol and drug programs	01-Jul-05	30-Jun-10	\$264,000.00
Healthy Land : Healthy People : Exploring the health benefits of Aboriginal natural resource management in northern Australia	06-Jun-05	31-Dec-08	\$60,028.00
Implementing the Aboriginal and Torres Strait Islander Adult Health Check.Improving early detection and evaluating innovative prevention activities in remote areas	01-Apr-06	30-Apr-09	\$229,875.00
Immunising Aboriginal mothers with pneumococcal polysaccharide vaccine to prevent infant ear disease and carriage	01-Jan-05	31-Dec-08	\$1,111,370.00

research funding

Funding Body	Chief Investigators	Grant Type
NHMRC 383500	GUNTORPE Wendy; SAYERS Sue; CAIRNEY Sheree; PARADIES Yin	Project
NHMRC 383504	CURRIE Bart; CHENG Allen; SPRATT Brian; MAYO Mark; NORTON Robert	Project
NHMRC 383507	CAIRNEY Sheree; MARUFF Paul; CLOUGH Alan; TORZILLO Paul; CURRIE Bart	Project
NHMRC 383511	WALTON Shelley	Career Development
NHMRC 383515	BOYLE Jacqueline	Scholarship
NHMRC 389837	MORRIS Peter; VALERY Patricia; CHANG Anne; GRIMWOOD Keith; SINGLETON rosallyn; TORZILLO Paul	Project
NHMRC 390121	GIFFARD Philip; TURNIDGE John; BELL Jan	Project
NHMRC 400481	CHENG Allen	Training Fellowship
NHMRC 422501 (Administered by Charles Darwin University)	CONDON John; ANDERSON Ian; SMITH Leonard; COTTER Philippa	Ageing Well, Ageing Productively Program
NHMRC 422503 (Administered by Charles Darwin University)	BARCLAY Lesley; CARAPETIS Jonathan; KILDEA Sue; KRUSKE Sue; NORRIS Gweneth; MCGREGOR Carolyn; CURRY Joanne; TRACY Sally; WARDAGUGU Molly	A Healthy Start to Life for all Australians
NHMRC 436006	WALTON Shelley; CURRIE Bart	Project
NHMRC 436009	CHENG Allen; MATHEWS John; LEACH Amanda; CARAPETIS Jonathan; CURRIE Bart	Project
NHMRC 436011	SINGH Gurmeet; MACKERRAS Dorothy	Project
NHMRC 436013	CONDON John; RUMBOLD Alice; GARLAND Suzanne; STANKOVICH Jim; BROWN Ngiare	Project
NHMRC 436014	CONDON John; JELFS Paul; RODER David; CUNNINGHAM Joan; COORY Michael; THRELFALL Tim	Project
NHMRC 436023	MORRIS Peter; LEACH Amanda; SMITH-VAUGHAN Heidi; CHANG Anne; VALERY Patricia; TORZILLO Paul	Project
NHMRC 436031	DAVIS Joshua	Scholarship
NHMRC 436032	SNELLING Thomas	Scholarship
NHMRC 436033	TONG Steven	Scholarship
NHMRC 436034	TOWERS Rebecca	Training Fellowship
NHMRC 436039	BAR-ZEEV Naor	Scholarship
NHMRC 436041	DINGWALL Kylie	Scholarship
NHMRC 436606	HODGSON Wayne; ISBISTER Geoffrey; NICHOLSON Graham; SEYMOUR Jamie	Project
NHMRC 437008	ANDREWS Ross	Training Fellowship
NHMRC 490300	THOMAS David; JOHNSTON Vanessa; FITZ Joe	General Practice Clinical Research Program
NHMRC 490302	BAILIE Ross; CLELLAND Nikki; TSEY Komla; SIBTHORPE Beverley	Project
NHMRC 490305	ISBISTER Geoffrey; BROWN Simon; BUCKLEY Nicholas; SELDON Michael	Project
NHMRC 490307	ANSTEY Nicholas	Practitioner Fellowship
NHMRC 490314	RUMBOLD Alice; BOYLE Jacqueline; KILDEA Sue; WALLACE Euan; THOMPSON Carolyn	Project
NHMRC 490317	LEACH Amanda; SMITH-VAUGHAN Heidi; NISSEN Michael; CHENG Allen	Project
NHMRC 490320	ANDREWS Ross; LEACH Amanda; MORRIS Peter; TORZILLO Paul; TANG Mimi; MULHOLLAND Edward	Project
NHMRC 490321	CHANG Anne; MORRIS Peter; ROBERTSON Colin; VAN ASPEREN Peter; GLASGOW Nicholas; MASTERS Ian	Project
NHMRC 490335	MCDONALD Elizabeth	Training Fellowship
NHMRC 490337	CLELLAND Nikki	Scholarship
NHMRC 490338	O'GRADY Kerry-Ann	Training Fellowship
NHMRC 490339	MARSH Robyn	Scholarship

Title	From	To	Total \$ Awarded
Strong Souls Study	01-Jan-06	31-Dec-08	\$189,875.00
Continuation of the Darwin Prospective Melioidosis Study	01-Jan-06	31-Dec-08	\$437,750.00
Neurocognitive and social changes associated with unleaded petrol sniffing and abstinence from further sniffing	01-Jan-06	31-Dec-08	\$625,000.00
Strategies to Improve the Diagnosis, Prevention, Treatment and Control of Scabies	01-Jan-06	31-Dec-10	\$436,250.00
Polycystic ovary syndrome, reproductive health and metabolic abnormalities in Indigenous women in the Northern Territory	01-Jan-06	31-Dec-08	\$91,800.00
MULTICENTRE BRONCHIECTASIS STUDY: A collaborative and international study of bronchiectasis in Indigenous children	01-Jan-06	31-Dec-10	\$1,444,500.00
Beta-lactamase mediated antibiotic resistance in Gram-negative pathogens : How does genotype relate to phenotype	01-Jan-06	31-Dec-08	\$262,500.00
Molecular, spatial and mathematical techniques in the analysis of the epidemiology of tropical infectious diseases	01-Jan-06	31-Mar-10	\$224,569.00
Examining a core assumption of policy and services for older Indigenous Australians	01-Feb-07	31-Jan-09	\$127,000.00
1+1 = A Healthy Start to Life: Targeting the year before and the year after birth in Aboriginal children in remote areas	01-Jan-07	01-May-11	\$528,000.00
An Immunodiagnostic Assay for Scabies	01-Jan-07	31-Dec-09	\$364,500.00
Mathematical modelling of bacterial carriage in children	01-Jan-07	31-Dec-08	\$409,750.00
Aboriginal Birth Cohort Study: from childhood to adulthood	01-Jan-07	31-Dec-09	\$481,275.00
An epidemic of vulvar cancer in young women: investigating the role of Human Papillomavirus and genetic susceptibility	01-Jan-07	31-Dec-08	\$476,625.00
Health system performance and outcomes for Indigenous Australians with cancer: a national study	01-Jan-07	31-Dec-09	\$393,688.00
Azithromycin versus placebo in the treatment of asymptomatic acute otitis media in young Aboriginal children: A RCT	01-Jan-07	31-Dec-10	\$1,290,125.00
Endothelial function and adjuvant therapies in sepsis	01-Jan-07	31-Dec-09	\$94,266.00
Rotavirus gastroenteritis in the Aboriginal population and the effect of immunisation	01-Jun-07	31-Dec-09	\$94,266.00
Community-associated methicillin-resistant Staphylococcus aureus: epidemiology, emergence and treatment	01-Jan-07	31-Dec-09	\$94,266.00
Investigation of cardiac autoantigens identified by screening a cDNA library with acute rheumatic fever sera	01-Jan-07	31-Dec-10	\$274,000.00
Vaccination to reduce ear disease in Aboriginal and Torres Strait Islander children in the Northern Territory	01-Jan-07	31-Dec-09	\$94,266.00
The nature of brain function recovery following abstinence from petrol sniffing	01-Jan-07	31-Dec-09	\$65,598.00
Molecular toxinology of Australian box jellyfish venoms	01-Jan-07	31-Dec-09	\$271,750.00
Prevention of pneumococcal diseases, streptococcal disease and influenza among Indigenous populations	01-Jan-07	31-Dec-10	\$274,000.00
Monitoring tobacco consumption to evaluate Indigenous tobacco control	01-Jan-08	31-Dec-09	\$217,000.00
A structured systems approach for improving health promotion practice for chronic diseases in Indigenous communities	01-Jan-08	31-Dec-10	\$640,514.00
A randomised controlled trial of factor replacement therapy in snake bite coagulopathy	01-Jan-08	31-Dec-10	\$689,500.00
Pathophysiology and treatment of malaria and other tropical infectious diseases in our region	01-Jan-08	31-Dec-12	\$463,975.00
Antenatal screening for fetal anomalies in Indigenous women: views of Indigenous people and their health care providers	01-Jan-08	31-Dec-10	\$360,350.00
Do respiratory viruses explain high rates of acute otitis media with perforation in young Aboriginal children	01-Jan-08	31-Dec-09	\$200,050.00
PneuMum: An RCT of maternal pneumococcal vaccination for protection of Indigenous children from ear disease	01-Jan-08	31-Dec-09	\$573,100.00
Multicentre evaluation of a clinical pathway for chronic cough in children – can its use improve clinical outcomes	01-Jan-08	31-Dec-10	\$932,975.00
The Better Environmental Health, Housing and Child Health Study (BEHHCH)	01-Jan-08	31-Dec-11	\$279,000.00
Improving Health Promotion Practice through Continuous Quality Improvement	01-Jan-08	31-Dec-10	\$66,771.00
The aetiology and prevention of pneumonia of Indigenous children in Northern Australia	01-Apr-08	31-Mar-12	\$279,000.00
Nasopharyngeal metagenomics in Indigenous children: correlations with otitis media aetiology and treatment failure	01-Jan-08	31-Dec-10	\$66,771.00

research funding

Funding Body	Chief Investigators	Grant Type
NHMRC 490340	SKULL Sue	Training Fellowship
NHMRC 490345	MOUNSEY Kate	Training Fellowship
NHMRC 490348	HUGHES Jaquelyne	Scholarship
NHMRC 496600 (Administered by Queensland Institute of Medical Research)	KEMP David; GOOD Michael; MCMANUS Donald; TOTH Istvan; ANSTEY Nicholas; SRIPRAKASH Kadaba; DOOLAN Denise; ENGWERDA Christian; LOUKAS Alexander; WOODBERRY Tonia	Program
NHMRC 496635 (Administered by Queensland Institute of Medical Research)	MCCARTHY James; WALTON Shelley; PASAY Cielo; HOLT Deborah	Project
NHMRC 520925	FALLS Gabrielle	Equipment
Northern Territory Government	CARAPETIS Jonathan	Fellowship
Northern Territory Government – NT DHF	MCDONALD Elizabeth	Project
Northern Territory Government – NT DHF	NAGEL Tricia	Knowledge Transfer
Northern Territory Government – NT DHF	ANDREWS Ross	Contract
Northern Territory Government – NT DLGHS	MCDONALD Elizabeth; BAILIE Ross	Project
Northern Territory Government – NTRIB	BAR-ZEEV Naor; CARAPETIS Jonathan; ANDREWS Ross; CHANG Anne; NISSEN Michael; KRAUSE Victoria; GUTHRIDGE Steve	Project
Northern Territory Government – NTRIB	SAYERS Sue; MACKERRAS Dorothy; SINGH Gurmeet; GUNTHORPE Wendy	Project
Northern Territory Government – NTRIB (Administered by Charles Darwin University)	KILDEA Sue; RUMBOLD Alice; BOYLE Jacqueline; KRUSKE Sue	Project
OATSIH	CARAPETIS Jonathan; JOHNSTON Vanessa; LEA Tess; ROBINSON Gary	Project
OATSIH	CARAPETIS Jonathan; MCDONALD Malcolm; CURRIE Bart; ILTON Marcus; MAGUIRE Graeme	Project
OATSIH	MAGUIRE Graeme	Project
Pratt Foundation	HOPKINS Susie; MORRIS Peter	Project
Queensland Government M1142822 (Administered by Queensland Institute of Medical Research)	MCCARTHY James; WALTON Shelley; PASAY Cielo; HOLT Deborah	Project
Rebecca L Cooper Medical Research Foundation Limited	MAPLE-BROWN Louise; LAWTON Paul; JERUMS George; MACISAAC Richard; O'DEA Kerin; CASS Alan; WARD Leigh; PIERS L	Project
Robert Griew Pty Ltd	THOMAS David	Contract
Robert Griew Pty Ltd	THOMAS David	Contract
Robert Griew Pty Ltd 263/0607	CHENHALL Richard	Tender
Robert Griew Pty Ltd 263/0607	GRIEW Robert; TILTON Edward; THOMAS David	Contract
Royal Australasian College of Physicians	MAGUIRE Graeme	Project
Sidney Myer Fund	ANDREWS Ross	Project
Trust Company Limited	SMITH-VAUGHAN Heidi	Project
UNICEF	BAILIE Ross; MCDONALD Malcolm; CARAPETIS Jonathan; EDWARDS Keith	Project
US Department of the Interior NBCH2070001 (Administered by Northern Arizona University)	KEIM Paul; CURRIE Bart	Project
Wellcome Trust ME028458MES	ANSTEY Nicholas; TJITRA Emiliana	International Collaborative Research
Wellcome Trust ME032027 (Administered by John Racliffe Hospital)	PRICE Ric	Career Development
WHF/Vodafone	CARAPETIS Jonathan	Program
Wodonga Institute of TAFE	NAGEL Tricia	Resource Development

Title	From	To	Total \$ Awarded
Optimising prevention and vaccination policy for pneumococcal disease, influenza and RSV in Indigenous Australians	01-Jan-08	31-Dec-11	\$139,500.00
Molecular mechanisms of ivermectin resistance in the ectoparasitic mite, <i>Sarcoptes scabiei</i>	01-Jan-08	31-Dec-11	\$279,000.00
The relationship of body composition, renal impairment & inflammatory cytokines in Indigenous persons with diabetes	01-Jan-08	31-Dec-10	\$89,259.00
Immunity and Pathogenesis in Tropical and Infectious Diseases: Implications for Vaccines and Drug Development	01-Jan-08	31-Dec-12	\$14,902,357.80
Diagnostics for drug resistance in scabies	01-Jan-08	31-Dec-10	\$334,875.00
NHMRC Equipment Grant – 2007	01-Nov-07	01-Jul-08	\$86,000.00
Father Frank Flynn Fellowship	01-Jun-05	01-Jun-12	\$522,000.00
Research to develop children's environmental health frameworks, indicators and survey tool	01-Mar-08	31-Dec-08	\$13,636.36
AIMHI(NT) Mental Health Care Planning Training	01-Sep-06	30-Jun-08	\$50,000.00
MSHR Contribution to the Full Moon Strategy Evaluation	01-Nov-07	30-Jun-08	\$13,000.00
Research to develop children's environmental health frameworks, indicators and survey tool	23-Jan-08	31-Dec-08	
Burden of Influenza and respiratory viruses among Aboriginal children in the Top End	01-Jan-08	31-Dec-10	\$60,000.00
Aboriginal Birth Cohort Study	01-Mar-06	07-Feb-08	\$30,000.00
Can fetal fibronectin predict labour at term?	01-Jan-08	31-Dec-08	\$20,730.00
New approaches to improving health, developmental and educational outcomes for Indigenous children aged 0–8 years	01-Aug-07	30-Jun-08	\$135,881.00
Screening for rheumatic heart disease in Indigenous children	01-Jan-07	30-Sep-10	\$1,365,338.00
Extension of Selective use of long-term antibiotics for chronic lung obstructive disease in Aboriginal adults: A multi-centre trial	01-Jul-07	31-Dec-08	\$130,086.00
The Australian Indigenous EarInfoNet – An Ear Health and Hearing Web Resource and Network	28-Feb-06	31-Mar-09	\$356,077.12
The mechanism of acaricide resistance	01-Mar-07	31-Dec-09	\$566,250.00
Accurate assessment of renal function in Indigenous Australians with diabetes	01-Jan-08	31-Dec-08	\$16,390.00
Identify and evaluate relevant literature for Tender 093/0708	01-Jan-08	25-May-08	\$9,000.00
Identify and evaluate relevant literature, and review draft report for Tender 263/0607	26-Nov-07	25-Apr-08	\$9,000.00
Literature review of approaches to the prevention of alcohol and substance abuse for Aboriginal and Torres Strait Islander Australians	01-Apr-08	30-May-08	\$7,200.00
Literature review of the link between primary health care and health outcomes for Aboriginal and Torres Strait Islander Australians	01-Jan-08	31-Dec-08	\$60,700.00
RHD Kimberley Project Officer position	10-Oct-07	09-Jan-08	\$13,124.83
Vaccine Response Study	01-Sep-07	30-Jun-09	\$50,000.00
Defining the bacterial cause of chronic ear disease in Indigenous infants	31-Dec-07	31-Dec-08	\$19,800.00
Proposal for integrating the principles of the National Guidelines for Rheumatic Fever and Rheumatic Heart Disease into the Audit and Best Practice for Chronic Disease (ABCD) programme	01-Mar-08	31-Dec-10	\$115,888.00
High-resolution/Highly sensitive assays for forensic analysis and attribution of bacterial biothreat agents	21-Sep-06	01-Feb-08	\$98,250.00
Research and training to reduce morbidity and mortality from malaria in Papua (Indonesia) and Papua New Guinea	01-Jan-04	31-Dec-08	\$1,502,089.00
Optimising the management of drug resistant vivax malaria in Papua, Indonesia	01-Aug-04	31-Jul-09	\$712,530.00
World Heart Federation Rheumatic Fever/ Rheumatic Heart Disease Secondary Prevention Programme in the Pacific Island Nations	01-Jul-05	30-Jun-08	\$800,000.00
Staying well, managing depression and avoiding drug and alcohol problems	01-Aug-07	15-Aug-08	\$60,000.00

Refereed Journal Articles

Allen R, **Sayers S**, Powers J **Singh G**. The development and evaluation of a simple method of gestational age estimation. *Journal of Paediatrics and Child Health*. accepted June 2008.

Ambrosini GL, de Klerk NH, **Mackerras D**, Leavy J, Fritschi L. Dietary patterns and surgically treated benign prostatic hyperplasia: a case control study in Western Australia. *BJU Int* 2008; 101 (7):853-860.

Ambrosini GL, Fritschi L, de Klerk NH, **Mackerras D**, Leavy J. Dietary patterns identified using factor analysis and prostate cancer risk: a case control study in Western Australia. *Ann. Epidemiol.* 2008; 18 (5):364-370.

Anderson K, Devitt J, **Cunningham J**, Preece C, Cass A. "All they said was my kidneys were dead": Indigenous Australian patients' understanding of their chronic kidney disease. *Med J Aust* 2008; 189 (9):499-503.

Bailey EJ, Chang AB. In children with prolonged cough, does treatment with antibiotics have a better effect on cough resolution than no treatment? Part A: Evidence-based answer and summary. *Paediatr Child Health* 2008; 13 (6):512-513.

Bailey EJ, Chang AB. In children with prolonged cough, does treatment with antibiotics have a better effect on cough resolution than no treatment? Part B: Clinical commentary. *Paediatr Child Health* 2008; 13 (6):514.

Bailey EJ, Kruske SG, Morris PS, Cates CJ, Chang AB. Culture-specific programs for children and adults from minority groups who have asthma (Review). *Cochrane Database of Systematic Reviews* 2008; 2: 1-22.

Bailey EJ, Morris PS, Kruske SG, Chang AB. Clinical pathways for chronic cough in children (Review). *Cochrane Database of Systematic Reviews* 2008; 2: 1-9.

Bailie R, Si D, Connors C, Weeramanthri T, Clark L, Dowden M, O'Donoghue L, Condon J, Thompson S, Clelland N, Nagel T, Gardner K, Brown A. Study protocol: Audit and Best Practice for Chronic Disease Extension (ABCDE) Project. *BMC Health Serv Res* 2008; 8 (1):184.

Bailie R, Sibthorpe B, Gardner K, Si D. Quality improvement in Indigenous primary health care: History, current initiatives and future directions. *Aust J Primary Health* 2008; 14 (2):53-57.

Bailie RS, Si D, Dowden MC, Connors CM, O'Donoghue L, Liddle HE, Kennedy CM, Cox RJ, Burke HP, Thompson SC, Brown ADH. Delivery of child health services in Indigenous communities: implications for the federal government's emergency intervention in the Northern Territory. *Med J Aust* 2008; 188 (10):615-618.

Bailie RS. Book Review : Indigenous Families. *Health Sociology Review* 2008; 17 (1):109-111.

Burgess CP, Berry HL, Gunthorpe W, Bailie RS. Development and preliminary validation of the 'Caring for Country' questionnaire: measurement of an

Indigenous Australian health determinant. *Int J Equity Health* 2008; 7 (26).

Burgess P, Mileran A, Bailie RS. Beyond the mainstream: Health gains in remote Aboriginal communities. *Aust Fam Physician* 2008; 37 (12):986-988.

Carapetis JR, Hardy M, Fakakovikaetau T, Taib R, Wilkinson L, Penny DJ, Steer AC. Evaluation of a screening protocol using auscultation and portable echocardiography to detect asymptomatic rheumatic heart disease in Tongan school children. *Nat Clin Pract Cardiovasc Med* 2008; 5(7): 411-417.

Carapetis JR. Rheumatic heart disease in Asia. *Circulation* 2008 Dec; 16; 118(25): 2748-53.

Carapetis JR. Pediatric rheumatic heart disease in the developing world: echocardiographic versus clinical screening. *Nat Clin Pract Cardiovasc Med* 2008; 2:74-75.

Chan A, **Isbister GK, Kirkpatrick CMJ, Duffull SB**. Assessing risk of a prolonged QT Interval - a survey of emergency physicians. *Int J Emerg Med* 2008;1:35-41.

Chang AB, Bilton D. Exacerbations in cystic fibrosis: 4--Non-cystic fibrosis bronchiectasis. *Thorax* 2008; 63 (3):269-276.

Chang AB, Clark R, Sloots TP, Stone DG, Petsky HL, Thearle D, Champion AA, Wheeler C, Acworth JP. A 5- versus 3-day course of oral corticosteroids for children with asthma exacerbations who are not hospitalised: a randomised controlled trial. *Med J Aust* 2008; 189 (6):306-310.

Chang AB, Grimwood K, Maguire G, King PT, Morris PS, Torzillo PJ. Management of bronchiectasis and chronic suppurative lung disease in Indigenous children and adults from rural and remote Australian communities. *Med J Aust* 2008; 189 (7):386-393.

Chang AB, Peake J, McElrea MS. Anti-histamines for prolonged non-specific cough in children (Review). *Cochrane Database of Systematic Reviews* 2008; 2: 1-17.

Chang AB, Redding GJ, Everard ML. Chronic wet cough: Protracted bronchitis, chronic suppurative lung disease and bronchiectasis. *Pediatric Pulmonology* 2008; 5:1-13.

Chang AB. Chronic non-specific cough in children. *Paediatrics and Child Health* 2008; 18(7): 333-339.

Chang AB. ACCP cough guidelines for children: can its use improve outcomes? *Chest* 2008; 134(6):1111-1112.

Chantratita N, **Meumann E, Thanwisai A, Limmathurotsakul D, Wuthiekanun V, Wannapasni S, Tumapa S, Day NP, Peacock SJ**. Loop-mediated isothermal amplification method targeting the TTS1 gene cluster for detection of *Burkholderia pseudomallei* and diagnosis of melioidosis. *J Clin Microbiol* 2008; 46 (2):568-573.

Cheng AC, Buising KL. Delayed Administration of Antibiotics and Mortality in Patients With Community-Acquired Pneumonia. *Ann Emerg Med* 2008 Aug 22; Epub ahead of print

- Cheng AC**, Chierakul W, Chaowagul W, Chetchotisakd P, Limmathurotsakul D, Dance DA, Peacock SJ, **Currie BJ**. Consensus guidelines for dosing of amoxicillin-clavulanate in melioidosis. *Am J Trop Med Hyg* 2008; 78 (2):208-209.
- Cheng AC**, Hobbs CM, Robinson PM. Australia needs an expanded immunisation register. *Med J Aust* 188 (4):263.
- Cheng AC**, Jacups SP, Ward L, **Currie BJ**. Melioidosis and Aboriginal seasons in northern Australia. *Trans R Soc Trop Med Hyg* 2008; 102(S1): S26-S29.
- Cheng AC**, Ward L, Godoy D, Norton R, Mayo M, Gal D, Spratt BG, **Currie BJ**. Genetic Diversity of *Burkholderia pseudomallei* Isolates in Australia. *J Clin Microbiol* 2008; 46 (1):249-254.
- Cheng AC**, West TE, Limmathurotsakul D, Peacock SJ. Strategies to reduce mortality from bacterial sepsis in adults in developing countries. *PLoS Med* 2008; 5 (8):e175.
- Cheng AC**, West TE, Peacock SJ. Surviving sepsis in developing countries. *Crit Care Med* 2008; 36 (8):2487-2488.
- Cheng AC**, Wuthiekanun V, Limmathurotsakul D, Chierakul W, Peacock SJ. Intensity of exposure and incidence of melioidosis in Thai children. *Trans R Soc Trop Med Hyg* 2008; 102 Suppl 1:S37-S39, 2008.
- Chenhall R**. What's in a rehab? Ethnographic evaluation research in Indigenous Australian residential alcohol and drug rehabilitation centres. *Anthropol Med* 2008; 15 (2):105-116.
- Lucas DB, Carville K, Connors C, **Currie B**, **Carapetis J**, **Andrews R**. Disease burden and health care clinic attendances for young children in remote Aboriginal communities of northern Australia. *Bull WHO* 2008; 86 (86):275-281.
- Commons R, Rogers S, Gooding T, Danchin M, **Carapetis J**, Robins-Browne R, Curtis N. Superantigen genes in group A streptococcal isolates and their relationship with emm types. *J Med Microbiol* 2008; 57 (Pt 10):1238-1246.
- Commons R, Rogers S, Gooding T, Danchin M, **Carapetis JR**, Robins-Browne R, Curtis N. Superantigen genes in group A streptococcal isolates and their relationship to emm types. *J Med Microbiol* 2008 Oct;57(Pt 10):1238-46.
- Condon JR**, **Rumbold AR**, Thorn JC, O'Brien MM, Davy MJ, Zardawi I. A cluster of vulvar cancer and vulvar intraepithelial neoplasia in young Australian Indigenous women. *Cancer Causes Control*, 2008; 32:4.
- Correa-Velez I, **Johnston V**, Kirk J, Ferdinand A. Community-based asylum seekers' use of primary health care services in Melbourne. *Med J Aust* 2008; 188 (6):344-348.
- Cunningham J**, O'Dea K, Dunbar T, **Maple-Brown L**. Perceived weight versus Body Mass Index among urban Aboriginal Australians: do perceptions and measurements match? *Aust N Z J Public Health* 2008; 32 (2):135-138.
- Cunningham J**, O'Dea K, Dunbar T, Weeramanthri T, Shaw J, Zimmet P. Socioeconomic status and diabetes among urban Indigenous Australians aged 15 & 64 years in the DRUID study. *Ethnicity & Health* 2008; 13 (1):23-37.
- Cunningham J**, **Rumbold AR**, **Zhang X**, **Condon JR**. Incidence, aetiology, and outcomes of cancer in Indigenous peoples in Australia. *Lancet Oncol* 2008; 9 (6):585-595.
- Currie B**, **Canale E**, **Isbister G**. Effectiveness of pressure-immobilisation first aid for snakebite requires further study. *Emerg Med Australas*. 2008; 20(3):267-270.
- Currie BJ**, **Canale E**, **Isbister GK**. Effectiveness of pressure-immobilization first aid for snakebite requires further study. *Emerg Med Australas* 2008; 20 (3):267-270.
- Currie BJ**. Advances and remaining uncertainties in the epidemiology of *Burkholderia pseudomallei* and melioidosis. *Trans Royal Soc Trop Med Hyg* 2008; 102:225-227.
- Currie BJ**. Snakes, Jellyfish and Spiders. *Adv Exp Med Biol* 2008; 609: 43-52.
- Currie BJ**, Dance DA, **Cheng AC**. The global distribution of *Burkholderia pseudomallei* and melioidosis: an update. *Trans R Soc Trop Med Hyg* 2008; 102 Suppl 1:S1-S4.
- d'Abbs P, Schmidt B, Dougherty K, **Senior K**. Implementing a chronic disease strategy in two remote Indigenous Australian settings: A multi-method pilot evaluation. *Aust J Rural Health* 2008; 16:67-74.
- Daly CG, **Currie BJ**, Jeyasingham MS, Moulds RF, Smith JA, Strathmore NF, Street AC, Goss AN. A change of heart: the new infective endocarditis prophylaxis guidelines. *Aust Dent J* 2008; 53 (3):196-200.
- De Keulenaer BL, Hooland SR, Damodaran PR, **Currie BJ**, Powell BP, Jenkins IR. *Burkholderia pseudomallei* sepsis presenting with pericardial effusion and tamponade. *Crit Care Resusc* 2008; 10 (2):139.
- Devitt J, Cass A, **Cunningham J**, Preece C, Anderson K, Snelling P. Study Protocol--Improving Access to Kidney Transplants (IMPAKT): a detailed account of a qualitative study investigating barriers to transplant for Australian Indigenous people with end-stage kidney disease. *BMC Health Serv Res* 2008; 8:31.
- Dondorp A, Lee SJ, Faiz MA, Mishra S, **Price R**, Tjitra E, Than M, Htut Y, Mohanty S, Yunus EB, Rahman R, Nosten F, **Anstey NM**, Day NPJ, White NJ. The relationship between age and the manifestations of and mortality associated with severe malaria. *Clin Infect Dis* 2008; 47:151-157.
- Dowling J, **Isbister GK**, Kirkpatrick CMJ, Naidoo D, Graudins A. Population pharmacokinetics of intravenous, intramuscular and intranasal naloxone in human volunteers. *Ther Drug Monit* 2008;30:490-496.
- Esler D, **Johnston F**, **Thomas D**, Davis B. The validity of a depression screening tool modified for use with Aboriginal and Torres Strait Islander people. *Aust N Z J Public Health* 2008; 32:317-321.

- Gee JE, Glass MB, Novak RT, **Gal D, Mayo MJ**, Steigerwalt AG, Wilkins PP, **Currie BJ**. Recovery of a *Burkholderia thailandensis*-like isolate from an Australian water source. *BMC Microbiol* 2008; 8 (1):54.
- Gibney KB, **Cheng AC, Currie BJ**. Cutaneous melioidosis in the tropical top end of Australia: a prospective study and review of the literature. *Clin Infect Dis* 2008; 47 (5):603-609.
- Gildenhuys J, Lee M, **Isbister GK**. Does implementation of a paediatric asthma clinical practice guideline worksheet change clinical practice? *Int J of Emerg Med* 2008;1(3).
- Hare KM, Morris P, Smith-Vaughan H, Leach AJ**. Random colony selection versus colony morphology for detection of multiple pneumococcal serotypes in nasopharyngeal swabs. *Pediatr Infect Dis J* 2008; 27 (2):178-180.
- Herzig V, Khalife AA, Chong Y, **Isbister G, Currie BJ**, Churchill TB, Horner S, Escoubas P, Nicholson GM, Hodgson WC. Intersexual variations in Northern (*Misulena pruinosa*) and Eastern (*M. bradleyi*) mouse spider venom. *Toxicon* 2008; 51:1167-1177.
- Honsa E, Fricke T, Stephens AJ, Ko D, Kong F, Gilbert GL, Huygens F, **Giffard PM**. Assignment of *Streptococcus agalactiae* isolates to clonal complexes using a small set of single nucleotide polymorphisms. *BMC Microbiol* 2008; 8:140.
- Isbister GK**, Brown SG, MacDonald E, White J, **Currie BJ**. Current use of Australian snake antivenoms and frequency of immediate-type hypersensitivity reactions and anaphylaxis. *Med J Aust* 2008; 188 (8):473-476.
- Isbister GK**, Brown SGA, Miller M, Tankel A, MacDonald E, Stokes B, Ellis R, Nagree Y, Wilkes GJ, James R, Short A, Holdgate A. A randomised controlled trial of intramuscular versus intravenous antivenom for latrodectism – the RAVE study. *QJM* 2008;101:557-565.
- Isbister GK**, O’Leary MA, Miller M, Brown SGA, Ramasamy S, James R, Schneider JJ. A comparison of serum antivenom concentrations after intravenous and intramuscular administration of redback (widow) spider antivenom. *Br J Clin Pharm* 2008;65:139-143.
- Jacups S**, Whelan P, **Currie B**. Ross River virus and Barmah Forest virus infections: a review of history, ecology, and predictive models, with implications for Tropical Northern Australia. *Vector Borne Zoonotic Dis* 2008; 8 (1):1-15.
- Jacups SP, Currie BJ**. Blue-ringed octopuses: a brief overview of their toxicology. *NT Naturalist* 2008; 20:50-57.
- Jacups SP**, Whelan PI, Markey PG, Cleland SJ, Williamson GJ, **Currie BJ**. Predictive indicators for Ross River virus infection in the Darwin area of tropical northern Australia, using long-term mosquito trapping data. *Trop Med Int Health* 2008; 13 (7):943-952.
- Jamieson LM, **Sayers SM**. Oral health investigations of Indigenous participants in remote settings: a methods paper describing the dental component of wave III of an Australian Aboriginal birth cohort study. *BMC Oral Health* 2008; 8:24.
- Johnston V, Thomas DP**. Smoking behaviours in a remote Australian Indigenous community: The influence of family and other factors. *Soc Sci Med* 2008; 67(11):1708-1716.
- Ju H, **Rumbold AR**, Willson KJ, Crowther CA. Borderline gestational diabetes mellitus and pregnancy outcomes. *BMC Pregnancy Childbirth* 2008; 8:31.
- Karyana M**, Burdarm L, Yeung S, **Kenangalem E, Wariker N**, Maristela R, Umana KG, **Vemuri R**, Okoseray MJ, Penttinen PM, Ebsworth P, Sugiarto P, **Anstey NM**, Tjitra E, **Price RN**. Malaria morbidity in Papua Indonesia, an area with multidrug resistant *Plasmodium vivax* and *Plasmodium falciparum*. *Malar J* 2008; 7 (1):148.
- Kumar A, **Mayo M**, Trunck LA, **Cheng AC, Currie BJ**, Schweizer HP. Expression of Resistance-Nodulation-cell Division efflux pumps in *Burkholderia pseudomallei* isolates from Northern Australia. *Trans R Soc Trop Med Hyg* 2008; 102 Suppl 1:S145-S151, 2008.
- Leach A, Wood Y, Gadil E, Stubbs E, Morris P**. Topical ciprofloxacin versus topical framycetin-gramicidin-dexamethasone in Australian aboriginal children with recently treated chronic suppurative otitis media: a randomized controlled trial. *Pediatr Infect Dis J* 2008; 27 (8):692-698.
- Leach AJ, Morris PS, Mackenzie G, McDonnell J**, Balloch A, **Carapetis J**, Tang M. Immunogenicity for 16 serotypes of a unique schedule of pneumococcal vaccines in a high-risk population. *Vaccine* 2008; 26:3885-3891.
- Leach AJ, Morris PS**, Mathews JD and the **Chronic Otitis Media Intervention Trial – One (COMIT1) group**. Compared to placebo, long-term antibiotics resolve otitis media with effusion (OME) and prevent acute otitis media with perforation (AOMwip) in a high-risk population: a randomized controlled trial. *BMC Pediatr* 2008; 8:23.
- Leach AJ, Stubbs E, Hare K, Beissbarth J, Morris PS**. Comparison of nasal swabs with nose blowing for community-based pneumococcal surveillance of healthy children. *J Clin Microbiol* 2008; 46 (6):2081-2082.
- Lee SJ, Stepniewska K, **Anstey N**, Ashley E, Barnes K, Binh TQ, d’Alessandro U, Day NP, de Vries PJ, Dorsey G, Guthmann JP, Mayxay M, Newton P, Nosten F, Olliaro P, Osario L, Pinoges L, **Price R**, Rowland M, Smithuis F, Taylor R, White NJ. The relationship between the haemoglobin concentration and the haematocrit in *Plasmodium falciparum* malaria. *Malar J* 2008; 7:1-4.
- Lek-Uthai U, **Suwanarusk R**, Ruengweerayut R, Skinner-Adams TS, Nosten F, Gardiner DL, Boonma P, **Piera KA**, Andrews KT, **Machunter B**, Carthy JS, **Anstey N, Price RN, Russell B**. Stronger activity of human immunodeficiency virus type 1 protease inhibitors against clinical isolates of *Plasmodium vivax* than against those of *P. falciparum*. *Antimicrob Agents Chemother* 2008; 52:2435-2441.

Li AM, Tsang TWT, Lam HS, Sung RYT, **Chang AB**. Predictors for failed dose reduction of inhaled corticosteroids in childhood asthma. *Respirology* 2008; 13(3): 1-7.

Maple-Brown L, Cunningham J, Dunne K, Whitbread C, Howard D, Weeramanthri T, Tatipata S, Dunbar T, Harper CA, Taylor HR, Zimmet P, **O'Dea K**, Shaw JE. Complications of diabetes in urban Indigenous Australians: the DRUID study. *Diabetes Res Clin Pract* 2008; 80 (3):455-462.

Maple-Brown LJ, Cunningham J, Barry RE, **Leysley L**, O'Rourke MF, Celermajer DS, **O'Dea K**. Impact of dyslipidaemia on arterial structure and function in urban Indigenous Australians. *Atherosclerosis*, 2008; 202: 248-254.

Marchant JM, Gibson PG, Grissell TV, Timmins NL, Masters IB, **Chang AB**. Prospective assessment of protracted bacterial bronchitis: Airway inflammation and innate immune activation. *Pediatr Pulmonol* 2008; 43(11):1092-1099.

Marchant JM, Newcombe PA, Juniper EF, Sheffield JK, Stathis SL, **Chang AB**. What is the burden of chronic cough for families? *Chest* 2008; 134 (2):303-309.

Masters IB, Zimmerman PV, Pandeya N, Petsky HL, Wilson SB, **Chang AB**. Quantified tracheobronchomalacia disorders and their clinical profiles in children. *Chest* 2008; 133 (2):461-467.

McDonald EL, Bailie RS, Brewster D, **Morris P**. Are hygiene and public health

interventions likely to improve outcomes for Australian Aboriginal children living in remote communities? A systematic review of the literature. *BMC Public Health* 2008; 8: 153.

McDonald EL, Bailie RS, Rumbold AR, Morris PS, Paterson BA. Preventing growth faltering among Australian Indigenous children: implications for policy and practice. *Med J Aust* 2008; 188 (8 Suppl):s84-s86.

McDonald MI, Towers RJ, Andrews R, Bengener N, Fagan P, Currie BJ, Carapetis JR. The dynamic nature of group A streptococcal epidemiology in tropical communities with high rates of rheumatic heart disease. *Epidemiol Infect* 2008; 136 (4):529-539.

McDonald MI, Towers RJ, Andrews R, Bengener N, Fagan P, Currie BJ, Carapetis JR. The dynamic nature of group A streptococcal epidemiology in tropical communities with high rates of rheumatic heart disease. *Epidemiol Infect* 2008; 136:529-539.

Merchant-Patel S, Blackall PJ, Templeton J, Price EP, Mifflin JK, Huygens F, **Giffard PM**. Characterisation of chicken *Campylobacter jejuni* isolates using resolution optimised single nucleotide polymorphisms and binary gene markers. *Int J Food Microbiol* 2008; 128(2):304-308.

Moberley SA, Holden J, Tatham DP, **Andrews RM**. Vaccines for preventing pneumococcal infection in adults. *Cochrane Database Syst Rev* 2008; (1):CD000422.

Moulds RF, Jeyasingham MS, Infective Endocarditis Prophylaxis Expert Group, Therapeutic Guidelines Limited (Collaborators: Moulds RF, **Currie BJ**, Daly CG, Goss AN, Smith J, Strathmore NF, Street AC, Jeyasingham MS.) Antibiotic prophylaxis against infective endocarditis: time to rethink. *Med J Aust* 2008; 189 (6):301-302.

Mounsey KE, Holt DC, McCarthy J, Currie BJ, Walton SF. Scabies: molecular perspectives and therapeutic implications in the face of emerging drug resistance. *Future Microbiol* 2008; 3 (1):57-66.

Nagel T, Robinson G, Trauer T, **Condon J**. An approach to treating depressive and psychotic illness in Indigenous communities. *Aust J Primary Health* 2008; 14 (1):17-24.

Nagel T, Thompson C, Spencer N. Challenges to relapse prevention: Psychiatric care of Indigenous in-patients. *AeJAMH* 2008; 7 (2).

Nagel T, Thompson C. Motivational care planning: self management in Indigenous mental health. *Australian Family Physician* 2008; 37(12):996-1001, 2008.

Newcombe PA, Sheffield JK, Juniper EF, Marchant JM, Halsted RA, Masters IB, **Chang AB**. Development of a parent-proxy quality-of-life chronic cough-specific questionnaire: clinical impact vs psychometric evaluations. *Chest* 2008; 133(2): 386-395.

O'Brien F, **Giffard P**. Two approaches to *Staphylococcus aureus* typing. *Microbiol Aust* 2008; 29:131-134.

O'Dea K, Cunningham J, Maple-Brown L, Weeramanthri T, Shaw J, Dunbar T, Zimmet P. Diabetes and cardiovascular risk factors in urban Indigenous adults: Results from the DRUID study. *Diabetes Res Clin Pract* 2008; 80 (3):483-489.

O'Neil C, **Chang AB**. Vitamin A supplementation for cystic fibrosis (Review). *Cochrane Database of Systematic Reviews* 2008; 1:1-7.

Page C, Duffull SB, Whyte IM, **Isbister GK**. Promethazine overdose: clinical effects, predicting delirium and the effect of charcoal. *QJM* 2009;102:123-131.

Paradies YC, Cunningham J. Development and validation of the Measure of Indigenous Racism Experiences (MIRE). *Int J Equity Health* 2008; 7:9.

Pasay C, Arlian L, Morgan M, Vyszynski-Moher D, Rose A, **Holt D, Walton S, McCarthy J**. High-resolution melt analysis for the detection of a mutation associated with permethrin resistance in a population of scabies mites. *Med Vet Entomol* 2008; 22 (1):82-88.

Peacock SJ, Schweizer HP, Dance DA, Smith TL, Gee JE, Wuthiekanun V, DeShazer D, Steinmetz I, Tan P, **Currie BJ**. Management of Accidental Laboratory Exposure to *Burkholderia pseudomallei* and *B. mallei*. *Emerg Infect Dis* 2008; 14 (7):e2.

Petsky HL, Cates CJ, Li AM, Kynaston JA, Turner C, **Chang AB**. Tailored interventions based on exhaled nitric oxide versus clinical symptoms for asthma in children and adults. *Cochrane Database Syst Rev* 2008; (2):CD006340.

- Poesoprodjo JR, Fobia W, Kenangalem E, Lampah DA, Warikar N, Seal A, McGready R, Sugiarto P, Tjitra E, Anstey NM, Price RN.** Adverse pregnancy outcomes associated with multidrug resistant *P. vivax* and *P. falciparum* infection. *Clin Infect Dis* 2008; 46:1374-1381.
- Ralph A, Kelly P, Anstey N.** L-arginine and Vitamin D: novel adjunctive immunotherapies in tuberculosis. *Trends in Microbiology* 2008; 16 (7):336-344.
- Rowley KG, **O'Dea K**, Anderson I, McDermott R, Saraswati K, Tilmouth R, **Roberts I, Fitz J, Wang Z, Jenkins A, Best JD, Wang Z, Brown A.** Lower than expected morbidity and mortality for an Australian Aboriginal population: 10-year follow-up in a decentralised community. *Med J Aust* 2008; 188 (5):283-287.
- Rumbold AR, Bennett CM, Harper C.** Epidemiology training and workforce competencies. *Austral Epidemiol* 2008; 15 (2):22-23.
- Rumbold AR, Cunningham J, Bailie RS, Hiller JE.** Exploring the characteristics of the research workforce in Aboriginal and Torres Strait Islander health. *Aust N Z J Public Health* 2008; 32 (1):12-18.
- Rumbold AR, Cunningham J.** A review of the impact of antenatal care for Australian Indigenous women and attempts to strengthen these services. *Matern Child Health J* 2008; 12 (1):83-100.
- Russell B, Chalfein F, Prasetyorini B, Kenangalem E, Piera K, Suwanarusk R, Brockman A, Prayoga P, Sugiarto P, Cheng Q, Tjitra E, Anstey NM, Price RN.** Determinants of In Vitro Drug Susceptibility Testing of *Plasmodium vivax*. *Antimicrob Agents Chemother* 2008; 52 (3):1040-1045.
- Sayers S,** Lancaster PA. Fetal growth retardation: Causes and outcomes. *International Encyclopedia of Public Health, First Edition* 2008; 2:613-622.
- Sayers S, Singh G, Fitz J, Schultz K, Davison B.** Update on the Aboriginal Birth Cohort Study: Wave 3 Methods at 20 years. *Aboriginal & Islander Health Worker J* 2008; 32 (4):18-20.
- Sellers EA, **Singh GR, Sayers SM.** Large waist but low body mass index: the metabolic syndrome in Australian Aboriginal children. *J Pediatr* 2008; 153 (2):222-227.
- Senior K, Chenhall R.** Lukumat marawana: A changing pattern of drug use by youth in a remote Aboriginal community. *Aust J Rural Health* 2008; 16:75-79.
- Senior KA, Chenhall RD.** 'Walkin' about at night': the background to teenage pregnancy in a remote Aboriginal community. *J Youth Studies* 2008; 11 (3):269-281.
- Sharrock WW, Suwanarusk R, Lek-Uthai U, Edstein MD, Kosaisavee V, Travers T, Jaidee A, Sriprawatt K, Price RN, Nosten F, Russell B.** *Plasmodium vivax* trophozoites insensitive to chloroquine. *Malar J* 2008; 7:94.
- Shemesh T, Rowley KG, Jenkins AJ, Best JD, O'Dea K.** C-Reactive Protein Concentrations Are Very High and More Stable Over Time Than the Traditional Vascular Risk Factors Total Cholesterol and Systolic Blood Pressure in an Australian Aboriginal Cohort. *Clin Chem* 2008 December 12; Epub ahead of print.
- Shemesh T, Rowley KG, Piers LS, Best JD, O'Dea K.** Low high-density lipoprotein-cholesterol is the most prevalent metabolic abnormality for Australian Aboriginal men and women even when lean. *Eur J Cardiovasc Prev Rehabil* 2008; 15 (1):49-51.
- Si D, Bailie R, Cunningham J, Robinson G, Dowden M, Stewart A, Connors C, Weeramanthri T.** Describing and analysing primary health care system support for chronic illness care in Indigenous communities in Australia's Northern Territory - use of the Chronic Care Model. *BMC Health Serv Res* 2008; 8 (112).
- Si D, Bailie R, Weeramanthri T.** Effectiveness of chronic care model-oriented interventions to improve quality of diabetes care: a systematic review. *Primary Health Care Research and Development* 2008; 9 (1):25-40.
- Sitthidet C, Stevens JM, Chantratita N, **Currie BJ, Peacock SJ, Korbsrisate S, Stevens MP.** Prevalence and sequence diversity of a factor required for actin-based motility in natural populations of *Burkholderia* species. *J Clin Microbiol* 2008; 46 (7):2418-2422.
- Skull SA, Andrews RM,** Byrnes GB, Campbell DA, Nolan TM, Brown GV, Kelly HA. ICD-10 codes are a valid tool for identification of pneumonia in hospitalized patients aged > or = 65 years. *Epidemiol Infect* 2008; 136 (2):232-240.
- Skull SA, Ngeow JY, Hogg G, Biggs BA.** Incomplete immunity and missed vaccination opportunities in East African immigrants settling in Australia. *J Immigr Minor Health* 2008; 10 (3):263-268.
- Smith-Vaughan H, Byun R, Halpin S, Nadkarni MA, Jacques NA, Hunter N, Morris PS, Leach AJ.** Interventions for prevention of otitis media may be most effective if implemented in the first weeks of life. *Int J Pediatr Otorhinolaryngol* 2008; 72 (1):57-61.
- Smith-Vaughan H, Crichton F, Beissbarth J, Morris PS, Leach AJ.** Survival of pneumococcus on hands and fomites. *BMC Res Notes* 2008; 1:112.
- Steer A, Curtis N, **Carapetis J.** Diagnosis and treatment of invasive group A streptococcal infections. *Expert Opinion on Medical Diagnostics* 2008; 2 (3):289-301.
- Stephens DP, Thomas JH, Higgins A, Bailey M, **Anstey NM, Currie BJ, Cheng AC.** Randomized, double-blind, placebo-controlled trial of granulocyte colony-stimulating factor in patients with septic shock. *Crit Care Med* 2008; 36 (2):448-454.
- Stepniewska K, **Price RN,** Sutherland C, Drakeley C, von Seidlein L, Nosten F, White NJ. *Plasmodium falciparum* gametocyte dynamics in areas of different endemicity. *Malar J* 2008; 7:249.

- Suwanarusk R**, Chavchich M, **Russell B**, Jaidee A, **Chalfein F**, Barends M, Prasetyorini B, **Kenangalem E**, **Piera KA**, Lek-Uthai U, **Anstey NM**, Tjitra E, Nosten F, Cheng Q, **Price RN**. Amplification of pvmdr1 Associated with Multidrug-Resistant Plasmodium vivax. *J Infect Dis* 2008; 198 (10):1558-1564.
- Takkenberg JJM, Rajamannan NM, Rosenhek R, Kumar AS, **Carapetis JR**, Yacoub MH. The need for a global perspective on heart valve disease epidemiology – The SHVD working group on epidemiology of heart valve disease founding statement. *J Heart Valve Dis* 2008; 17 (1):1-5.
- Tan YP, **Giffard PM**, Barry DG, Huston WM, Turner MS. Random mutagenesis identifies novel genes involved in the secretion of antimicrobial cell wall lytic enzymes by *Lactococcus lactis*. *Appl Environ Microbiol* 2008; 74(24):7490-7496.
- Tanos PP, **Isbister GK**, Lalloo DG, Kirkpatrick CMJ, Duffull SB. A model for venom-induced consumptive coagulopathy in snake bite. *Toxicol* 2008; 52:769-780.
- Thomas DP**, Anderson IP, Kelaher MA. Accessibility and quality of care received in emergency departments by Aboriginal and Torres Strait Islander people. *Aust Health Rev* 2008; 32 (4):648-654.
- Thomas DP**, Briggs V, Anderson IPS, **Cunningham J**. The social determinants of being an Indigenous non-smoker. *Aust N Z J Public Health* 2008; 32 (2):110-116.
- Tjitra E, **Anstey NM**, Sugiarto P, **Warikar N**, **Kenangalem E**, **Karyana M**, **Lampah DA**, **Price RN**. Multidrug-Resistant *Plasmodium vivax* Associated with Severe and Fatal Malaria: A Prospective Study in Papua, Indonesia. *PLoS Med* 2008; 5 (6):e128.
- Tong SY**, **Anstey NM**, Lum GD, **Lilliebridge RA**, Stephens DP, **Currie BJ**. Fatal community-associated methicillin-resistant *Staphylococcus aureus* pneumonia after influenza. *Med J Aust* 2008; 188 (1):61.
- Tong SY**, **McDonald MI**, **Holt DC**, **Currie BJ**. Global Implications of the Emergence of Community-Associated Methicillin-Resistant *Staphylococcus aureus* in Indigenous Populations. *Clin Infect Dis* 2008; 46:1871-1878.
- Tuanok A, Leadem B, Auerbach RA, Beckstrom-Sternberg S, Beckstrom-Sternberg R, **Mayo M**, Wuthiekanun V, Brettin TS, Nierman WC, Peacock SJ, **Currie BJ**, Wagner DM, Keim P. Genomic Islands From Five Strains of *Burkholderia pseudomallei*. *BMC Genomics* 2008; 9:566.
- Tumapa S, Holden MTG, Vesaratchavest M, Wuthiekanun V, Limmathurotsakul D, Chierakul W, Feil EJ, **Currie B**, Day NP, Nierman WC, Peacock SJ. *Burkholderia pseudomallei* genome plasticity associated with genomic island variation. *BMC Genomics* 2008; 9 (190):1-10.
- Valery PC, **Chang AB**, Masters IB, Stirling J, Laifoo Y, Twist A. Stable prevalence of asthma symptoms in school-aged children in the Torres Strait region. *Respiratory* 2008; 13: 447-451.
- Walsh W, Brown A, **Carapetis J**. The diagnosis and management of chronic rheumatic heart disease--an Australian guideline. *Heart Lung Circ* 2008; 17 (4):271-289.
- Walton SF**, Beroukas D, Roberts-Thomson P, **Currie BJ**. New insights into disease pathogenesis in crusted (Norwegian) scabies: the skin immune response in crusted scabies. *Br J Dermatol* 2008; 158 (6):1247-1255.
- Warner JM, Pelowa DB, **Gal D**, Rai G, **Mayo M**, **Currie BJ**, Govan B, Skerratt LF, Hirst RG. The epidemiology of melioidosis in the Balimo region of Papua New Guinea. *Epidemiol Infect* 2008; 136 (7):965-971.
- Weir K, McMahon S, Barry L, Ware R, Masters IB, **Chang AB**. Clinical signs and symptoms of oropharyngeal aspiration and dysphagia in children. *Eur Respir J* 2008 Nov 14; Epub ahead of print.
- White NJ, Stepniewska K, Barnes K, **Price RN**, Simpson J. Simplified antimalarial therapeutic monitoring: using the day-7 drug level? *Trends Parasitol* 2008; 24 (4):159-163.
- Winter KL, **Isbister GK**, Schneider JJ, Konstantakopoulos N, Seymour JE, Hodgson WC. An examination of the cardiovascular effects of an 'Irukandji' jellyfish, *Alatina nr mordens*. *Toxicol Lett* 2008; 179:118-123.
- Woodberry T**, **Minigo G**, **Piera KA**, Hanley JC, Silva HD, Salwati E, **Kenangalem E**, Tjitra E, Coppel RL, **Price RN**, **Anstey NM**, Plebanski M. Antibodies to *Plasmodium falciparum* and *Plasmodium vivax* Merozoite Surface Protein 5 in Indonesia: Species-Specific and Cross-Reactive Responses. *J Infect Dis* 2008; 198 (1 July):134-142.
- Yeo TW**, **Lampah DA**, Gitawati R, Tjitra E, **Kenangalem E**, Granger DL, Weinberg JB, Lopansri BK, **Price RN**, Celermajer DS, Duffull SB, **Anstey NM**. Safety profile of L-arginine infusion in moderately severe falciparum malaria. *PLoS ONE* 2008; 3 (6):e2347.
- Yeo TW**, **Lampah DA**, Gitawati R, Tjitra E, **Kenangalem E**, **McNeil YR**, **Darcy CJ**, Granger DL, Weinberg JB, Lopansri BK, **Price RN**, Duffull SB, Celermajer DS, **Anstey NM**. Recovery of Endothelial Function in Severe Falciparum Malaria: Relationship with Improvement in Plasma L-Arginine and Blood Lactate Concentrations. *J Infect Dis* 2008; 198: 602-608.
- Yeo TW**, **Lampah DA**, Gitawati R, Tjitra E, **Kenangalem E**, **Piera K**, **Price RN**, Duffull SB, Celermajer DS, **Anstey NM**. Angiotensin-2 associated with decreased endothelial nitric oxide and poor clinical outcome in severe falciparum malaria. *PNAS* 2008; 15 (44):17097-17102.
- Yeo TW**, **Rooslamiati I**, Gitawati R, Tjitra E, **Lampah DA**, **Kenangalem E**, **McNeil YR**, **Price RN**, **Anstey NM**, Duffull SB. Pharmacokinetics of L-arginine in adults with moderately severe malaria. *Antimicrob Agents Chemother* 2008; 52(12): 4381-4387.

Zhao Y, Connors C, Wright J, Guthridge S, **Bailie R**. Estimating chronic disease prevalence among the remote Aboriginal population of the Northern Territory using multiple data sources. *Aust NZ J Public Health* 2008; 32 (4):307-313.

In Press / Accepted

Chang AB, Clark R, Acworth JP, Petsky HL, Sloots TP. The impact of viral respiratory infection on the severity and recovery from childhood asthma exacerbations. *Pediatr Infect Dis J* 2008.

Clunas S, Whitaker R, Ritchie N, Upton J, **Isbister GK**. Reviewing deaths in the Emergency Department: deaths in the department or deaths within 48 hours. *Emerg Med Australas* 2008.

Currie BJ, Haslem A, Pearson T, Hornstra H, Leadem B, **Mayo M**, **Gal D**, Ward D, Godoy D, Spratt BG, Keim P. Using VNTR analysis to rapidly identify an outbreak of Melioidosis. *Emerg Infect Dis*, In Press 2008.

Isbister GK. Electrocardiogram changes and arrhythmias in venlafaxine overdose. *Br J Clin Pharm* 2008.

Jackson KE, **Currie B**, **Cairney S**, Maruff P, Snyder PJ. Hunger and the perception of the scent of petrol: A potential neurobiological basis for increased risk of petrol inhalation abuse. *Addiction Research & Theory*, 2008.

Johnston V. Australian asylum policies: have they violated the right to health of asylum seekers? *Aust NZ J Public Health*, 2008.

Maple-Brown L, Hodge A, **Cunningham J**, Celermajer DS, O'Dea K. Risk factors for cardiovascular do not fully explain differences in carotid intima-media thickness between Indigenous and European Australians without diabetes. *Clin Endocrin* 2008.

Marchant JM, **Chang AB**. Managing pertussis in adults. *Aust Prescriber* 2008.

McDonald EL, Priest N, Doyle J, **Bailie R**, Anderson I, **Waters E**. Letter : Priority setting for systematic reviews of health promotion and public health interventions among Indigenous peoples in high income countries. *J Epidemiol Community Health*, 2008.

McDonald EL, Priest N, Doyle J, **Bailie R**, Anderson I, **Waters E**. Issues and challenges for systematic reviews in Indigenous health. *J Epidemiol Community Health*, 2008.

Nagel T. An approach to treatment of mental illness and substance dependence in remote Indigenous communities: results of a mixed methods study. *Aust J Rural Health*, 2008.

Nagel TN, **Thompson C**, Robinson G, **Condon J**, Trauer T. 'Two way' approaches to Indigenous mental health literacy. *Aust J Primary Health*, 2008.

O'Leary MA, Kornhauser RS, Hodgson WC, **Isbister GK**. An examination of the activity of expired and mistreated commercial Australian antivenoms. *Trans R Soc Trop Med Hyg* 2009.

Pasay C, Arlian L, Morgan M, Gunning R, Rossiter L, **Holt D**, **Walton S**, Beckham

S, McCarthy J. The effect of insecticide synergists on the response of scabies mites to pyrethroid acaricides. *PLoS Negl Trop Dis* 2008.

Ritchie B, Brewster D, Tran CD, **McNeil Y**, Zackarakis B, Davidson GP, Butler RN. The monoclonal stool antigen test for detection of *Helicobacter pylori* infection in young Australian Aboriginal children: diagnostic accuracy. *Pediatr Infect Dis J*, Accepted 4 September 2008.

Robinson P, **Chang AB**. Paediatric Chronic Asthma. *BMJ Knowledge* 2008.

Robinson P, **Chang AB**. Paediatric Acute Asthma. *BMJ Knowledge* 2008.

Sanchez MO, **Chang AB**. Congenital rubella pneumonitis complicated by *Pneumocystis jiroveci* infection with positive long term respiratory outcome: a case report and literature review. *Pediatr Pulmonol* 2008.

Tikoduadua LV, Manalec EM, Colquhoun SM, **Carapetis JR**, Maclennan C. Validation of an integrated management of childhood illness algorithm for the management of common skin conditions in Fiji. *Bull WHO*, 2008.

Tong SYC, Bishop EJ, **Lilliebridge RA**, **Cheng AC**, Spasova-Penkova Z, **Holt D**, **Giffard P**, **McDonald M**, **Currie BJ**, Boutlis C. Community-associated methicillin-resistant *Staphylococcus aureus* and methicillin-susceptible *S. aureus* in Indigenous northern Australia: epidemiology and outcomes. *J Infect Dis* 2008.

Thomas D, **Johnston V**, **Fitz JW**, **McDonnell J**. Monitoring local trends in Indigenous tobacco consumption. *Aust NZ J Public Health* 2008.

Letters

Chan HT, Low J, Wilson L, Harris OC, **Cheng AC**, Athan E. Case cluster of necrotizing fasciitis and cellulitis associated with vein sclerotherapy. *Emerg Infect Dis* 2008; 14 (1):180-181.

Cheng AC, Black JF, Buising KL. Letter : Respiratory rate: the neglected vital sign. *Med J Aust* 2008; 189 (9):531.

Un-refereed Journal Articles

Hopkins S. Falling on deaf ears: Tackling chronic ear infections in NT's Indigenous communities. *Small Lust* 2008.

Book Chapters

McDonald E, **Bailie R**. Improving hygiene and children's health in remote Indigenous communities. In: *Analysing Australian Health Policy: A Problem-Oriented Approach*. Pages: 271-283

Currie B, Couzos S. Skin infections. In: *Aboriginal Primary Health Care – An Evidence-Based Approach*. Pages: 410-444.

Chang AB, Torzillo PJ.

Respiratory infection (including Bronchiectasis). In: *Aboriginal Primary Health Care – An Evidence-Based Approach*. Pages: 355–385

Chang AB, Torzillo PJ. Asthma.

In: *Aboriginal Primary Health Care – An Evidence-Based Approach*. Pages: 386–409.

Carapetis J, Couzos S.

Rheumatic Fever. *Aboriginal Primary Health Care – An Evidence-Based Approach* Pages: 445–482.

Carapetis J. Acute Rheumatic Fever. In: *Principles of Internal Medicine*. Pages: 2092–2095

Currie B. Snakes, Jellyfish and Spiders. In: *Hot Topics in Infection and Immunity in Children IV*. Pages: 43–52.

Chang AB – Member of Evidence Review Group. Diagnosis. In: *British Guideline on the Management of Asthma*. Pages: 2–23.

Chang AB – co-wrote chapter. Asthma in Aboriginal and Torres Strait Islander People. In: *Asthma in Australia 2008*. Pages: 3–23

Reports

Griew RG, Tilton E, **Thomas DP.** The link between primary health care and health outcomes for Aboriginal and Torres Strait Islander Australians: A report for the Office of Aboriginal and Torres Strait Islander Health, Department of Health and Ageing. Waverly, NSW: Robert Griew Consulting, 2008. <http://www.health.gov.au/internet/main/publishing.nsf/Content/health-oatsih-pubs-linksphc>

Griew R, Tilton E, Cox N, **Thomas D.** Review of evidence regarding chronic disease prevention in Aboriginal and Torres Strait Islander communities. Secretariat for the Australian Population Health Development Principal Committee (APHDPC), Department of Health and Ageing 2008.

Thomas D, Johnston V, Fitz J. Lessons for Aboriginal tobacco control by the Northern Territory Department of Health and Families: An Evaluation of the Tobacco Project. Menzies School of Health Research and Cooperative Research Centre for Aboriginal Health, 2008.



Alice RUMBOLD, Conference – Invited Presentation, Clinical Oncological Society of Australia, Annual Scientific Meeting, Session: Cancer in Indigenous Populations. Sydney 18–20 November, 2008.

Alice RUMBOLD, Conference – Invited Presentation, RANZCOG, Australian Indigenous Women's Health Meeting, Darwin, August 2008.

Allen CHENG, Conference – Convenor, Royal Australasian College of Physicians (NT Committee), Annual Scientific Meeting, Darwin 7–8 Nov 2008.

Anne CHANG, Conference – Invited lecture, American Thoracic Society Annual Scientific Conference. Title: Does upper airway organisms contribute to bronchiectasis. Toronto, May 2008

Anne CHANG, Conference – Invited lectures. Chile Thoracic Society. Titles: Protracted bronchitis and Management of cough and bronchiectasis. Santiago, April 2008.

Anne CHANG, Conference – Invited lectures. Columbian Pediatric Pulmonology 8th Annual Conference. Plenary talks on Management of cough and Not all wheeze is asthma. Symposium titles: Protracted bronchitis and Unusual use of antibiotics in pulmonary diseases. August 2008

Anne CHANG, Conference – Invited lectures, Asia-Pacific Society of Respiratory Annual Scientific meeting. Title: An overview on cough guidelines across the world: similarities and differences. Bangkok, Nov 2008.

Barbara MOLANUS, Conference Speaker, Coalition for Research to Improve Aboriginal Health, Trials (and tribulations) in the Top End. Sydney, 29–30 April 2008.

Bart CURRIE & Ross ANDREWS, Conference – Invited Presentation, Emerging Infectious Disease Control & Pandemic Preparedness, Extending Understanding, Building Responses, Committing to Regional Responsibilities, Expert Panel, 17–19 March 2008, Melbourne.

Bart CURRIE, Conference – Invited Presentation, Australian Institute of Medical Scientists, National Scientific Meeting, Emerging Infectious Diseases in an Overpopulated Planet, Melbourne, 13–17 October 2008.

Bart CURRIE, Conference – Invited Presentation, IDSA/ICAAC meeting, Scientific Program Committee, Problem infestations: Scabies and Lice–Washington 25–28 October 2008.

Bart CURRIE, Conference – Invited Presentation, Australian Wound Management, 7th National Conference, Dream–Diversity–Disasters, Title: wounds from micro and macro tropical pathogens, 7–10 May 2008.

Bart CURRIE, Conference – Invited Presentation, Asia Pacific international conference on travel medicine, our region in focus, Title: General issues on vector borne diseases and Cutaneous Melioidosis in the Tropical Top End of Australia. 24–27 February 2008

Bart CURRIE, Conference – Invited Presentation, Australian Venom Research Unit, Global Issues in Clinical toxicology, Inaugural Conference on Clinical Issues in Clinical Toxicology, Title: Management of snakebite in Australia and Papua New Guinea: How multicentre prospective studies can inform the current evidence base.

Melbourne, 23–28 Nov 2008.

Bart CURRIE, Conference – Invited Presentation, Australian Society for Microbiology, ASM tri-State Meeting, Alice Springs, 12–14 September 2008.

Bart CURRIE, Conference – Invited Presentation, Australia–Indonesia Joint Working Group in Science and Innovation, Research and Technology, Workshop on Human Health, Including Infectious Diseases, Emerging Infectious Diseases Issues in our Region, 14–15 April 2008.

Bart CURRIE, Conference – Invited Presentation, Department of Immigration and Citizenship, Intergovernmental Immigration Health Working Group Fourth Annual Meeting, The Australian regimen for malaria testing and treatment/ treatment of parasites. 7–10 October 2008.

Catherine MARSHALL, Conference – Invited Presentation, NT Centre for Disease Control, Annual Scientific Meeting, Title: APSGN – the NT in Review. Darwin, 11–13 November 2008.

Catherine MARSHALL, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: Epidemiology of acute–post streptococcal Glomerulonephritis in the NT. Darwin, 7–8 November 2008.

David THOMAS, Presentation – Invited keynote, Centre for Excellence in Indigenous Tobacco Control and Cooperative Research Centre for Aboriginal Health, Update on Indigenous tobacco control research evidence. Centre for Excellence in Indigenous Tobacco Control and

Cooperative Research Centre for Aboriginal Health. Brisbane, 23rd May 2008.

David THOMAS, What works in Indigenous tobacco control / gaps in knowledge (Invited keynote). Aboriginal tobacco summit, Aboriginal Health Council WA. Perth, 9 July 2008.

Deborah HOLT, Conference – Invited Presentation, Australian Society for Antimicrobials (ASA), 13th International Symposium on Staphylococci and Staphylococcal Infections, Comparison of community associated *S.aureus* types in community and hospital isolates in the Northern Territory of Australia. Cairns, 7–10 September 2008.

Dorothy YUNGGIRRNGA and Jean RURRUKUNBUY, Yalu' Marnnggithinyaraw and the Yolngu Walngakum Yolngu Life Project. National Nutrition Networks Conference. Alice Springs, March 2008.

Geoffrey ISBISTER, Conference – Invited Presentation, Haematology Society of Australia and New Zealand, the Australian and New Zealand Society of Blood Transfusion and the Australasian Society of Thrombosis and Haemostasis, HAA 2008, Annual Scientific Meeting, Perth, 19–22 October 2008.

Geoffrey ISBISTER, Conference – Invited Presentation, Australian Venom Research Unit, University of Melbourne, Inaugural Global Issues in Clinical Toxicology, Title: Antivenom use in Australasia: More questions than answers and Failure of antivenom for venom induced consumption coagulopathy in Australian Snakebite. Melbourne, 23–28 November 2008.

Geoffrey ISBISTER, Conference – ISLH 2008, XXIst International Symposium on Technological Innovations in Laboratory Hematology, Title: “The Role Of Coagulation Testing In Snake Envenoming”. Sydney, April 2008.

Geoffrey ISBISTER, Conference – : Invited Lecture, Global Issues in Clinical Toxinology. Melbourne, November 2008.

Glenda HARRINGTON, Conference – Invited Presentation, 12th International Symposium on Microbial Ecology (ISME-12) – Microbial Diversity, Sustaining the Blue Planet, The Habitat of the Melioidosis Bacterium *Burkholderia pseudomallei* in Endemic Tropical Australia. Cairns, 17–22 August 2008.

Graeme MAGUIRE, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: COPD and pneumonia. Darwin, 7–8 November 2008.

Gurmeet SINGH, Conference – Invited Presentation, RANZCOG, Australian Indigenous Women's Health Meeting, Darwin, August 2008.

Gurmeet SINGH, Early life effects and later disease: implications for women's health Indigenous Women's Health conference, RANZCOG, Darwin, 2008.

Gurmeet SINGH, Alcohol use in Aboriginal people. At the Alcohol in Pregnancy: is any too much? Early Start to Life Conference, Melbourne, 2008.

Jaquelyne HUGHES, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: The relationship between several measures of body composition in Indigenous Australians in

the Top End. Darwin, 7–8 November 2008.

Jonathan CARAPETIS, Summit, Prime Ministers 20:20 Summit, Canberra, 19–20 April 2008.

Jonathan CARAPETIS, 17th Lancefield International Symposium on Streptococci and Streptococcal Diseases, Porto Heli, Greece, June 2008.

Jonathan CARAPETIS, 16th World Congress of Cardiology, Buenos Aires, Argentina, May 2008.

Jonathan CARAPETIS, 10th Paediatric & Child Health Nursing Conference, Darwin, May 2008.

Jonathan CARAPETIS, Australasian Society of Infectious Diseases Annual Scientific Meeting, Noosa, April 2008.

Jonathan CARAPETIS, Keynote address at Kaltje Irrtyeke Ikerte – Learning Strong Forum, Darwin, July 2008.

Jonathan CARAPETIS, Presentation at rheumatic heart disease education workshop, Alice Springs: Drivers and Burden of Disease, August 2008.

Jonathan CARAPETIS, Presentation at the 3rd Australian Vaccine Research Meeting, Adelaide. Indigenous Immunisation Research, November 2008.

Jonathan CARAPETIS, Presentations to the Communicable Diseases Network of Australia, Canberra. Closing the Gap – Rheumatic Heart Disease and Invasive streptococcal infections, November 2008.

Joshua DAVIS, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: Angiotensin 2 – a novel biomarker providing insights into the pathophysiology

of Sepsis. Darwin, 7–8 November 2008.

Joshua DAVIS, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: An outbreak of Meningitis and a febrile vomiting illness due to a novel Enterovirus in the NT. Darwin, 7–8 November 2008.

Joshua DAVIS, Conference – Invited Presentation, Centre for Disease Control Conference 2008, Title: Hepatitis B virus: A new paradigm. Darwin, 11–13 November 2008.

Julie BRIMBLECOMBE, Conference Speaker, The Nutrition Society of Australia 32nd Annual Meeting, The ‘no share’ card: How does a budgeting tool to address food insecurity for Aboriginal people in remote Australia impact on purchasing patterns and customer satisfaction? 30th November 2008.

Julie BRIMBLECOMBE, Dorothy YUNGGIRRNGA, Keeping track of healthy food: A monitoring and evaluation learning approach to improving the food system for better food security. National Nutrition Networks Conference. Alice Springs, March 2008.

Kerry-Ann O'GRADY, Conference – Presentation, Population Health Congress 2008, Title: Timeliness of pneumococcal conjugate vaccine immunisation may be critical in preventing severe pneumonia in Indigenous infants in the Northern Territory. Brisbane, 7–9 July 2008.

Kerry-Ann O'GRADY, Conference – Presentation, 6th International Symposium on Pneumococci & Pneumococcal Diseases, Talk title: Lessons learnt from digitising chest x-rays in a

large multi-centre study. Reykjavik, 6–9 June 2008.

Kerry-Ann O'GRADY, Conference – Presentation, 6th International Symposium on Pneumococci & Pneumococcal Diseases. Title: The burden of hospitalised, radiologically diagnosed pneumonia in Northern Territory Indigenous children, Australia. Reykjavik, 6–9 June 2008.

Kerry-Ann O'GRADY, Conference – Presentation, 6th International Symposium on Pneumococci and Pneumococcal Diseases, Title: Timeliness of pneumococcal conjugate vaccine immunisation may be critical in preventing severe pneumonia in Indigenous infants in the Northern Territory. Reykjavik, 6–9 June 2008.

Kerry-Ann O'GRADY, Conference – Presentation, Population Health Congress, Title: A study to evaluate the 7vPCV in Indigenous infants: design and analysis challenges. Brisbane, 7–9 July 2008.

Kerry-Ann O'GRADY, Conference – Presentation, Population Health Congress, Title: Timeliness of pneumococcal conjugate vaccine may be critical in preventing severe pneumonia in Indigenous infants in the Northern Territory, Australia. Brisbane, 7–9 July 2008.

Kim HARE, Conference – Invited Presentation, 6th International Symposium on Pneumococci and Pneumococcal Diseases, Title: Carriage of pneumococci and other respiratory pathogens in Indigenous babies enrolled in a maternal pneumococcal vaccine trial of Pneumovax. Reykjavik, 6–9 June 2008.

Linda VIBERG, Conference – Invited Presentation, ASP & ARC/NHMRC Research Network for Parasitology Annual Conference, Oral poster presentation titled: Life-stage specific expression and immunolocalisation of Ssag1 and glutathione S-transferase delta in *Sarcoptes scabiei* var. *hominis*. Glenelg, 6–9 July 2008.

Louise MAPLE-BROWN, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: Accurate assessment of renal function in Indigenous Australians: Pilot results on the eGFR Study. Darwin, 7–8 November 2008.

Malcolm MCDONALD, Conference – Invited Presentation, Centre for Disease Control Conference 2008, Title: Remote Control. Darwin, 11–13 November 2008.

Mirjam KAESTLI, Conference – Invited Presentation, 12th International Symposium on Microbial Ecology (ISME-12) – Microbial Diversity, Sustaining the Blue Planet, The Habitat of the Melioidosis Bacterium *Burkholderia*. Cairns, 17–22 Aug 2008.

Nicholas ANSTEY, Conference – invited presentation, American Society for Tropical Medicine & Hygiene (ASTMH), New Orleans, Title: Pathophysiology of severe vivax malaria 11 Dec 2008

Nicholas ANSTEY, Conference – invited presentation, American Society for Tropical Medicine & Hygiene (ASTMH), New Orleans, Title: Intravascular hemolysis: a neglected mechanism of nitric oxide quenching, endothelial dysfunction and impaired perfusion in severe falciparum malaria? 11 Dec 2008

Nicholas ANSTEY, Conference – invited presentation, American Society for Tropical Medicine & Hygiene (ASTMH), New Orleans, Title: Angiopoietin-2, an autocrine mediator of endothelial activation is associated with parasite biomass, endothelial dysfunction and mortality in falciparum malaria 11 Dec 2008

Nicholas ANSTEY, Conference – Convenor, Keystone Malaria Pathogenesis Immunology and Vaccine, Austria 6 June 2008

Nicholas ANSTEY, Conference – invited presentation, Keystone Malaria Pathogenesis Immunology and Vaccine, Austria, Targeting the arginine-NO pathway and endothelial dysfunction as adjunctive therapy in severe malaria. 6 June 2008

Nicholas ANSTEY, Conference – invited presentation, Thoracic Society Australia and NZ (WA Branch), Title: Lung injury in malaria 1 Oct 2008

Nicholas ANSTEY, Conference – invited presentation, Thoracic Society Australia and NZ (WA Branch), Title: Pneumonia in Tropical Australia 1 Oct 2008

Nick DOUGLAS, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: Mortality attributable to *Plasmodium vivax* in Papua Indonesia. Darwin, November 2008.

Phil GIFFARD, 13th International Symposium of Staphylococci and Staphylococcal infections. Computer aided selection of SCCmec typing marker sets. Cairns, September 2008.

Phil GIFFARD, 13th International Symposium of Staphylococci and Staphylococcal infections. Rapid genotyping of *S. aureus*. Cairns, September 2008.

Phil GIFFARD, Conference – workshop coordinator, International Symposium on Staphylococci and Staphylococcal Infections, Title: Insight into Staphylococcal Cassette Chromosome mec (SCCmec): Structures and their Evolution., Cairns, September 2008.

Phil GIFFARD, Conference – symposium coordinator, International Symposium on Staphylococci and Staphylococcal Infections, Title: Molecular Diagnostic Assays and Recent Advances in Typing, Cairns, September 2008.

Rachael LILLIEBRIDGE, Conference – Invited Presentation, Australian Society for Antimicrobials (ASA), 13th International Symposium on Staphylococci and Staphylococcal Infections, Poster presentation. Comparison of community associated *S. aureus* types in community and hospital isolates in the Northern Territory of Australia. Cairns, 7–10 September 2008.

Ric PRICE, Conference – Invited Presentation, Antimalarial Treatment Strategies: Getting the Most from Malaria Drugs. South Africa, April, 2008.

Ross ANDREWS, Conference – Presentation, 11th National Immunisation Conference, Title: PneuMum: A trial of maternal pneumococcal vaccination to prevent infant ear disease. Gold Coast, September 2008.

Ross ANDREWS, Conference – Presentation, 11th National Immunisation Conference, Title: Indigenous immunisation research in Australian: the way forward. Gold Coast, September 2008.

Ross ANDREWS, Conference – Invited Presentation, Emerging Infectious Diseases Control

Conference, Title: PneuMum: A Randomized Controlled Trial of Maternal Pneumococcal Polysaccharide Vaccine of Australian Indigenous Women. Melbourne, 17–18 March.

Ross BAILIE, Conference – Invited Presentation, Rural and Remote Aboriginal and Torres Strait Islander Chronic Disease Conference, How can we do the basics better? Chronic illness care in rural and remote Aboriginal communities. Rural and Remote ATSI Chronic Disease Conference. Broken Hill, 14–17 May 2008.

Sara NOONAN, Conference – Invited Presentation, Second Rheumatic Heart Disease Prevention Workshop in Pacific Island Countries, Nadi, Fiji, February 2008.

Sarah MOBERLEY, Conference – Invited Presentation, 6th International Symposium on Pneumococci and Pneumococcal Diseases, Title: Broome Revisited: The validity of the indirect cohort method to assess the effectiveness of pneumococcal vaccination. Reykjavik, 6–9 June 2008.

Sarah MOBERLEY, Conference – 6th International Symposium on Pneumococci and Pneumococcal Diseases, Title: Failure to vaccinate or failure of vaccine? Effectiveness of the 23-valent pneumococcal polysaccharide vaccine in Indigenous adults. Reykjavik, 6–9 June 2008.

Sarah MOBERLEY, Conference – Invited Presentation, 6th International Symposium on Pneumococci and Pneumococcal Diseases, Title: Immunogenicity of 23-valent pneumococcal polysaccharide vaccination and placental antibody transfer in Indigenous Australian women. Reykjavik, 6–9 June 2008.

Steven TONG, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: Community-associated methicillin-resistant Staphylococcus aureus and methicillin susceptible S. aureus in Northern Australia. Darwin, 7–8 November 2008.

Steven TONG, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: Trimethoprim-sulphamethoxazole compared to benzathine penicillin for impertigo in Aboriginal children. Darwin, 7–8 November 2008.

Steven TONG, Conference – Invited Presentation, Australian Society for Antimicrobials (ASA), 13th International Symposium on Staphylococci and Staphylococcal Infections, Poster presentation: Comparison of community associated S.aureus types. Cairns, 7–10 September 2008.

Susan SAYERS, Conference – Invited Presentation, RANZCOG, Australian Indigenous Women's Health Meeting, Darwin, August 2008.

Therese KEARNS, East Arnhem Healthy Skin Program (EAHSP) 2004–2007. Health At The Heart of Australia Conference, 18th Annual Scientific Meeting and Exhibition of the Australian Cardiovascular Health and Rehabilitation Association & 12th Annual Conference of the Chronic Diseases Network of the NT, August 2008.

Therese KEARNS, Healthy Skin. Better ARF/RHD Care for Clinicians – 'Improved knowledge, prevention and management,' Conference, supported by Support Scheme for Rural Specialists, James Cook University and The Royal Australasian College of Physicians. August 2008.

Tonia WOODBERRY, Conference – Invited Presentation, Royal Australasian College of Physicians (NT Branch), Annual Scientific Meeting, Title: Do regulatory T cells increase parasite proliferation and contribute to the development of severe malaria. Darwin, November 2008.

Vanessa JOHNSTON, Seminar – Australian Institute of Aboriginal and Torres Strait Islander Studies, Title: Tobacco control in Indigenous communities: an opportunity for 'closing the gap', Canberra, October 13 2008.

Yin PARADIES, Conference – Invited Presentation, Fulbright Symposium : Healthy People, Prosperous Country, Racism and Indigenous Health. Adelaide, July 2008.

Yin PARADIES, Conference – Invited Presentation, Inaugural Indigenous Health Summit, Keynote address – The Social Determinants of Indigenous Health. Melbourne, June 2008.



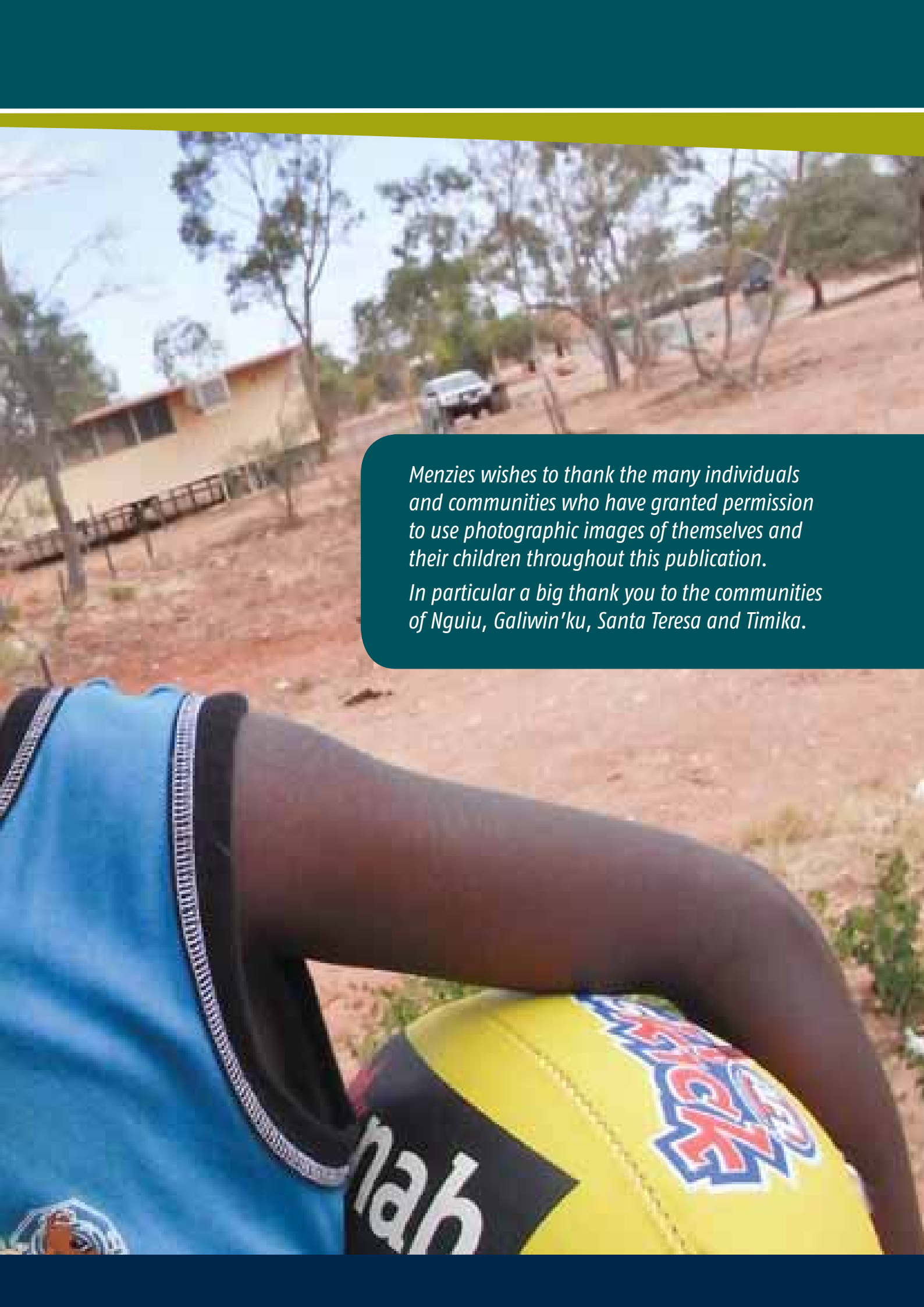
Aboriginal Health Branch NSW
 Aboriginal Health Council of South Australia
 Adelaide River Health Centre
 Albany GSAHS Health Service
 Amoonguna Health Service Central Australia
 Aboriginal Health Council Western Australia
 Animal Management in Rural and Remote Indigenous Communities
 Aboriginal Medical Services Alliance NT
 Aboriginal Resource and Development Services
 Alaska Tribal Consortium, USA
 Alcohol Education and Rehabilitation Foundation
 Alice Springs High School
 Alice Springs Hospital
 Ali Curung Health Service
 Alphapharm
 Amity Community Services
 Angurugu Community Council
 Angurugu Health Centre
 Area 9 IT Solutions
 Army Malaria Research Institute
 Arnhem land Shire Council
 Arnhem land Progress Association
 Association for Relatives and Friends of the Mentally Ill
 Auckland Hospital, NZ
 AUSAID
 Austin Hospital, Melbourne
 Australasian Association of Cancer Registries
 Australian Academy of Science
 Australian Agency for International Development
 Australian Centre for the Control of Iodine Deficiency Disorders
 Australian College of Dermatologists
 Australian Government Department of Health and Ageing
 Australian Indigenous Health InfoNet
 Australian Institute of Aboriginal and Torres Strait Islander Studies
 Australian Institute of Family Studies
 Australian Institute of Health and Welfare
 Australian National University
 Australian Primary Health Care Research Institute
 Australian Red Cross
 Australian Research Alliance for Children & Youth
 Australian Research Centre for Population Oral Health
 Australian Research Council
 Australian Respiratory Council
 Bagot Community Council
 Bagot Community Health Centre
 Baker Heart Research Institute
 Balanu Foundation
 Bamaga Health Service
 Banyan House, NSW
 Batchelor Institute for Indigenous Tertiary Education
 Bawinanga Aboriginal Corporation
 Belyuen Health Centre
 Belong's Haven
 Berrimah Prison
 Berrimah Veterinary Laboratories
 Bikerton Island Health Clinic
 Boston Digital
 Broome Regional Aboriginal Medical Service
 Cabrini Hospital
 Cairns Base Hospital
 Calvary Mater, Newcastle
 Camooweal Health Service
 Canberra Hospital
 Cancer Council NT
 Cancer Council SA
 Cancer Council Vic
 Cancer Institute NSW
 Catholic Education Office, NT
 Central Australian Aboriginal Alcohol Programs Unit
 Central Australian Aboriginal Congress
 Central Australian Remote Health Development Services
 Centre for Aboriginal Economic Policy Research
 Centre for Adolescent Health
 Centre for Chronic Disease – The University of Queensland
 Centre for Community Child Health
 Centre for Disease Control, NT
 Centre for International Child Health
 Centre for Military and Veterans Health
 Centre for Remote Health
 Centre for Vaccination and Child Health
 Centre for Vaccinology & Tropical Medicine, UK
 Channel 7 Children's Research Foundation
 Charles Darwin University
 Children First Foundation
 Children's Dental Health Services, NT
 Chinese University of Hong Kong
 CogState Ltd
 Cooperative Research Centre for Aboriginal Health
 Council for Aboriginal Alcohol Services
 Crocodylus Park, NT
 CSL Ltd
 Curtin University of Technology
 Dajarra Health Service
 Daly River Health Centre
 Danila Dilba Health Services
 Dareton Health Service NSW
 Department of Education and Training, NT
 Department of Health & Families, NT
 Department of Health, SA
 Department of Health, WA
 Department of Justice, NT
 Department of Local Government and Housing, NT
 Department of the Chief Minister, NT
 Derbal Yerrigan Health Service
 Derby Aboriginal Health Service
 Diabetes Australia Research Trust
 District Health Authority, Timika Papua Indonesia
 Drug and Alcohol Services Alice Springs
 Duke University, USA
 East Arnhem Shires
 Edith Cowan University
 Eijkman Institute, Indonesia
 Foundation for Children
 Galiwinku Community Council
 Gapuwiyak Community Council
 Geneva International Solidarity Fund
 George Institute of International Health
 Geraldton Regional Aboriginal Medical Service
 GlaxoSmithKline
 Good Health Alliance NT
 Gove District Hospital
 Government of Samoa
 Harold Mitchel Foundation
 Herbert Karuiki Memorial University, Tanzania
 Hermannsburg Community Council
 Hopevale Health Service
 Human Services Training Advisory Council
 Ian Potter Foundation
 Ilpurla Community Council
 Imperial College, UK
 Independent Grocers, NT
 Institute of Clinical Pathology and Medical Research
 Institute of Medical & Veterinary Science, SA
 Institute of Medical Research, PNG
 James Cook University
 John Hunter Hospital
 John Ratcliffe Hospital, UK
 Katanning GSAHS Health Service
 Katherine District Hospital
 Katherine West Health Board
 Kidney Health Australia
 Kiwanis Australia
 KPHU Fitzroy Crossing
 Land and Water Australia
 Lanyhapuy Homelands
 Liverpool School of Tropical Medicine, UK
 London School of Hygiene and Tropical Medicine

LPMAK, Timika Papua Indonesia
 Ltyentye Apurte Health Service
 Maari Ma Health Aboriginal Corporation
 Macfarlane Burnet Institute for Medical Research and Public Health
 Mahidol University, Thailand
 Malabam Health Board
 Mallee Family Care
 Maningrida Community Council
 Maningrida Health Clinic
 Mapoon Health Service
 Marngarr Community Council
 Marthakal Homelands Resource Centre
 Marwankarra Health Service
 Menzies Foundation
 Menzies Research Institute
 Milikapiti Health Centre
 Milingimbi Community Council
 Ministry of Education, Fiji
 Ministry of Health, Fiji
 Ministry of Health, Samoa
 Ministry of Health, Timor Leste
 Ministry of Health, Tonga
 Miwatj Health Centre
 Monash University
 Mt Liebig Health Service
 MORU, Bangkok, Thailand
 Mornington Island Health Service
 Murdoch Children's Research Institute
 Museum and Art Gallery of the Northern Territory
 Myllyia Rumurra, Broome
 Naprunam Health Service
 Narrogin GSAHS Health Service
 National Centre for HIV Epidemiology and Clinical Research
 National Centre for Immunisation Research and Surveillance
 National Drug Research Institute, Perth
 National Health and Medical Research Council
 National Health Service, Samoa
 National Heart Foundation
 National Institute of Health Research and Development, Indonesia
 National Institutes of Health, USA
 National University of Singapore
 Nganampa Health
 Nguuu Health Centre
 Northern Arizona University, USA
 Northern Land Council
 Northern Territory Government
 Northern Territory Renal Service
 Nossal Institute for Global Health
 Novartis Foundation, Switzerland
 NT Council of Social Services
 NT Research and Innovations Fund

Oenpelli Community Council
 Office of Aboriginal and Torres Strait Islander Health
 Organisation for Intra-cultural Development, Kyoto
 Outback Stores
 Oxford University, UK
 Palumpa Health Centre
 Pan African Society of Cardiology
 Papunya Community Council
 Pfizer Cardiovascular – Lipid
 Pine Creek Health Centre
 Port Keats Community Council
 Power & Water Corporation
 Pratt Foundation
 Princess Alexandra Hospital
 Queensland Children's Medical Research Institute
 Queensland Health
 Queensland Institute of Medical Research
 Queensland University of Technology
 Ramingining Community Council
 Rebecca L Cooper Medical Research Foundation
 Rioli Fund for Aboriginal Health
 Royal Adelaide Hospital
 Royal Australian College of General Practitioners
 Royal Children's Hospital, Brisbane
 Royal Darwin Hospital
 Royal Perth Hospital
 Royal Prince Alfred Hospital
 Royal Women's Hospital, Brisbane
 Royal Women's Hospital, Melbourne
 Rumah Sakit Mitra Masyarakat, Indonesia
 School for Social Policy Research
 School of Medicine, Fiji
 School of Nursing, Fiji
 Sidney Myer Foundation
 Sophia University, Tokyo
 Sprout Creative, NT
 SRA Information Technology
 St Vincent's Hospital, Melbourne
 Sunrise Health Services Katherine
 Swiss National Science Foundation
 Tangentyere Council
 Telethon Institute for Child Health
 Telstra
 TH Northern Trading
 The Queensland Aboriginal & Islander Health Council
 The Smith Family
 Timika TB Clinic, Papua, Indonesia
 Ti Tree Health service
 Tiwi Island Local Government
 Tiwi Land Council
 Tiwi Mental Health

Titjikala Health Service
 Top End Division of General Practice
 Top End Mental Health Services
 Torres Straits and Northern Peninsula Area Health District
 Townsville Hospital
 Tropical Medicine Research Unit, UK
 Tudor Foundation
 Umbakumba Health Clinic
 Universitas Gadjah Mada, Yogyakarta, Indonesia
 Universitas Indonesia, Jakarta
 University of Adelaide
 University of Alabama, USA
 University of Cape Town, South Africa
 University of Connecticut, USA
 University of Florida
 University of Liverpool, UK
 University of Manitoba, Canada
 University of Melbourne
 University of Michigan, USA
 University of Newcastle
 University of New South Wales
 University of Otago, NZ
 University of Queensland
 University of South Australia
 University of Sydney
 University of Tasmania
 University of Utah, USA
 University of Western Australia
 University of Wollongong
 Utju Health Service
 Vodafone Group Foundation, UK
 Waltja Tjutangku Palypayi
 Weipa Health Service
 Wellcome Trust
 Wellcome Trust-Oxford University, Bangkok
 Western Aranda Health Aboriginal Corporation
 Westmead Children's Hospital
 Willowra Health Service
 Women and Children's Hospital, Adelaide
 World Antimalarial Drug Resistance Network
 World Health Organization
 World Heart Federation
 Wurli Wurlijang Health Services Katherine
 Wyeth International
 WYN Health
 Yalu Marnggithinyaraw
 Yara Christian College
 Yirrikala Community Council
 Yuendumu Community Council
 Zendanren, Japan





Menzies wishes to thank the many individuals and communities who have granted permission to use photographic images of themselves and their children throughout this publication.

In particular a big thank you to the communities of Nguiu, Galiwin'ku, Santa Teresa and Timika.

Menzies School of Health Research

PO Box 41096
Casuarina NT 0811
Australia
John Mathews Building (58)
Royal Darwin Hospital Campus
Tiwi NT 0810
Australia

PHONE 08 8922 8196
FACSIMILE 08 8927 5187
EMAIL info@menzies.edu.au
WEBSITE www.menzies.edu.au

This Annual Report was produced by the Communications and Development Unit of the Menzies School of Health Research with input and much welcomed assistance from the staff and students of Menzies.

Published in May 2009.

Copywriting, editing and project management

Julie Carmichael

Design and layout

www.sprout.com.au

Printing

Pinnacle Print Group

Assistance with artwork

Papunya Tula Artists, Alice Springs, NT

Cover Art

Patrick Tjungurrayi

Untitled

122 x 91cm, 2008

Acrylic on linen

Papunya Tula Artists,
Alice Springs, NT

This painting depicts designs associated with the rockhole site of Wirripinya, south-west of Jupiter Well in Western Australia. This is the artist's father's country. In the mythological times a group of ancestral Tingari men camped at this site before travelling east to the rockhole site of Naru. The lines running through the painting are the tracks of the men as they passed between the sandhills, while also representing body paint work by the men during ceremonies. This mythology forms part of the Tingari song cycle.

Since events associated with the Tingari Cycle are of a secret nature no further detail was given.

Generally the Tingari are a group of mythical characters of the Dreaming who travelled over vast stretches of the country, performing rituals and creating and shaping particular sites. The Tingari men were usually followed by Tingari women and accompanied by novices and their travels and adventures are enshrined in a number of song cycles. These mythologies form part of the teachings of the post initiatory youths today as well as providing explanations for contemporary customs.

This artwork is one of 14 sold at the OCHRE Supporting Indigenous Health Through Art Auction in October 2008 which raised over \$250 000 for Indigenous child health research at Menzies.



discovery for a healthy tomorrow