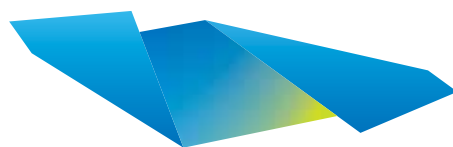


Creating hope through health research



SUPPORT RESEARCH. CREATE HOPE.



Ingham Institute
Applied Medical Research



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Introduction



Our Facilities: Ingham Institute Research Precinct

The Ingham Institute for Applied Medical Research is pleased to announce the completion of its new Australian Government funded research building, a five storey purpose-built research building directly across the grounds to the largest tertiary referral hospital in Australia, Liverpool Hospital.

The research building is phase one of the Ingham Institute's research precinct, with a Clinical Skills & Simulation Centre and a Research Bunker to be completed in late 2012.

Incorporating both wet and dry research areas, the Ingham Institute's new research building will enable researchers to enjoy brand new training grounds as well as clinical laboratories. The basement level entails a Biological Resources Unit, an important resource for experiments and clinical trials while also giving clinical research centres the opportunity for improved and better translational research practices.

The custom built research building will accommodate 200 researchers and will serve as the hub of innovation in the South West of Sydney. In August 2012, 24 research centres relocated to the Ingham Institute and a total of 160 health and medical researchers, dedicated to supporting the Ingham Institute's research streams to improve the health and wellbeing of the South West and wider Australia.

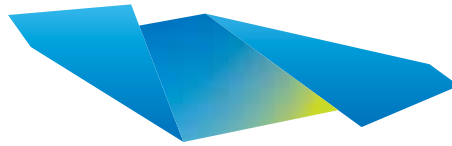
The Research Bunker containing the much-awaited MRI-Linac, an MRI coupled with a Linear Accelerator for cancer therapy, which is an Australian first model project, is set to be completed by late 2012. The Australian Government invested \$9 million towards the procurement of a MRI-Linac designed to improve the health and welfare of Australia's growing number of cancer patients. The MRI-Linac will pioneer the first and only piece of technology of its kind in Australia. Professor Paul Keall leads the Translational Cancer Research Centre which has seen a further injection of \$5.7 million from the National Health and Medical Research Council (NHMRC) towards the purchase of the MRI-Linac. Described as state of the art cancer therapy technology, it is set to redefine cancer treatment in Australia by more accurately locating tumours during a radiation therapy treatment session in real time, offering greater potential of improving patient cancer treatment outcomes.

In addition, the Ingham Institute will be the proud owners of the Clinical Skills & Simulation Centres to be built on the grounds of Liverpool Hospital. The centre will provide state of the art training ground for clinicians, nurses, students and allied health professionals and will support the translation of research and policy into practice.

Our Organisation

OUR MISSION

At the Ingham Institute, our Mission is to challenge the understanding and treatment of existing medical conditions and processes and by doing so radically transform community health outcomes for the better.



Ingham Institute
Applied Medical Research

OUR VALUES

We abide by a commonly held set of values that determine our culture. We work to ensure our commitment to research excellence is matched by a pragmatic focus on the quantifiable improvement of health outcomes:

REAL: We are down to earth and grounded in the real world. We demonstrate practical integrity in everything we do and say.

EXCELLENCE: Measured by our ability to be a true world-class leader in translational research that benefits the community through practical application.

INCLUSION: We work collaboratively with each other, are transparent and open to the outside world, and welcoming to the local community who are a crucial partner in our ongoing success.

ABOUT THE INGHAM INSTITUTE

The Ingham Institute for Applied Medical Research is at the forefront of leading health and medical researchers to set their research agendas and assist those to achieve their goals.

The Ingham Institute is a unique collaboration as it partners with the South Western Sydney Local Health District and two universities, namely the University of New South Wales and the University of Western Sydney. These strong synergies allow for wider scope of studies and improved access to better resources.

The Ingham Institute is governed by an independent Board of Directors, currently chaired by Mr Terry Goldacre.

Welcome to our annual report highlighting our studies and achievements for the 2011 calendar year, January through to December.

Awards and Prizes

BRAIN INJURY REHABILITATION UNIT

- **Leanne Hassett:** Awarded Best Abstract and Platform Presentation at the 2011 World Congress of Physical Therapy, Amsterdam, Netherlands for Studies into Circuit Class Therapy
- **Lauren Gillett:** Received Higher Degree Excellence Award, Department Psychology, Macquarie University

CARDIOLOGY RESEARCH UNIT

- **John French:** Appointed Chair of the Clinical Trials Council of the CSANZ and has a major role in promoting clinical trials in Australia.
- **Leia Hee:** Ingham Institute Scholarship to undertake a Masters in Clinical Trials at the Sydney University for 2012-2013.



CENTRE FOR APPLIED NURSING RESEARCH

- Winner of the 2011 SWSLHD Quality Awards under the category Collaboration – working as a Team. Perinatal Oral Health through collaboration South Western Sydney Local Health District.

CENTRE FOR HEALTH EQUITY TRAINING RESEARCH AND EVALUATION

- **Lynn Kemp:** Travel Fellowship and appointment at Kings College London as a Visiting Senior Research Fellow to explore the potential for implementation of MECSH in England.
- The Health Impact Assessment has been recognised by an award from the International Association for Impact Assessment which builds on the success of the Maternal Early Childhood Sustained Nurse Home-visiting (MECSH) trial.

CENTRE FOR RESEARCH EVIDENCE MANAGEMENT & SURVEILLANCE

- **Bin Jalaludin:** 'Conjoint Researcher of the Year' Award by the School of Public Health and Community Medicine, University of NSW.

Awards and Prizes Continued

CENTRE FOR CANCER OUTCOMES RESEARCH AND EVALUATION (CCORE)

- Karen Wong, Michael Barton & Geoff Delaney: Chris Atkinson Award for the best Radiation Oncology scientific paper presentation at the Royal Australian and New Zealand College of Radiology (RANZCR) Annual Scientific Meeting, Melbourne, Australia, October 2011, for the following oral presentation “ An evidence-based estimation of the optimal number of radiotherapy fractions for cancer patients” .
- Shalini Vinod, Jesmin Shafiq, Kirsten Duggan: South West Sydney Clinical School Paper of the Year Award for “Do multidisciplinary teams make a difference in the management of lung cancer? Cancer 2011;117:5112-5120. Boxer MM, Vinod SK, Shafiq J, Duggan KJ.

MEDICAL PHYSICS

- Paul Keall: Elected National Health and Medical Research Council Australia Fellow.

PALLIATIVE CARE RESEARCH UNIT

- Meera Agar: NSW Premiers Cancer Research Award for Innovation in Cancer Clinical Trials.
- Meera Agar: Received the Palliative Care New South Wales Award for significance in palliative care research 2011.



PANCREATIC CANCER RESEARCH UNIT

- Minoti Apte: Made a Fellow of the American Gastroenterological Association in recognition of outstanding research contribution to the field of gastroenterology.
- Minoti Apte: Awarded Comfort Professor for 2011, Mayo Clinic, Rochester USA.
- Zhihong Xu: PhD student, awarded a Travel Award from the Australasian Pancreatic Club.

RESPIRATORY MEDICINE

- Guy Marks: NHMRC Award for Achievement (top ranked practitioner Fellowship).
- Guy Marks: Research Medal of the Thoracic Society of Australia.

Chairmans Report



On behalf of Ingham Institute for Applied Medical Research team, it gives me great pleasure to provide you with our 2011 Annual Research Report. This report is a reflection of the significant activities of the Institute over the year.

The Ingham Institute continues to thrive with its strategic endeavours and research activity, constantly looking to grow and further support its health and medical researchers through various programs and initiatives.

At the Ingham Institute, we continue to support our research programs and keep to our 'from bench to bedside to community' badge.

Our clinical, health services, biomedical and nursing research programs continue to play a strong presence in national and international research programs and this is evident of our achievements and track record for the year. Research grant funding and the number of clinical trials have advanced over the year with a steady increase in the number of conference presentations and publications in scientific journals.

2011 was a memorable year as the Ingham Institute commenced building works of its state-of-the-art research facility on the grounds of Liverpool Hospital

which we now call home. Construction of the Institutes buildings started in late 2010. Construction of the main building was completed in mid-2012. Construction of the Skills and Simulation Centre and the Research Bunker are progressing with both due to completed later this year. The Institute's facilities will be formally opened by the Prime Minister of Australia on 23 October.

The Ingham Institute thanks Narellan Rotary Club for hosting its Annual 'A Night to Remember' Charity Ball. At the 12 August 2011 event, the Ingham Institute was presented with the largest donation of the night. Ingham Institute Founding Benefactor Bob Ingham AO pledged his support by donating a further \$1 million to the Institute. Another inspiring donation was from Lady (Mary) Fairfax AC, OBE who again kindly donated \$150,000 to the Institute. A special thank you to all our donors and supports who have continued to show their support of the Ingham Institute.

The Board has continued to actively support the Ingham Institute with great attendance at all general meetings. In 2011, Alison Jones and Mike Wallace resigned as Directors and we thank them for their valuable contributions over the years. Dr Teresa Anderson and Professor Annemarie Hennessy have joined the Board of Directors, both valuable additions to our dedicated and passionate team.

Our partners, South Western Sydney Local Health District (SWSLHD), the University of New South Wales (UNSW) and the University of Western Sydney (UWS) have greatly contributed to the shaping of the Ingham Institute and contributed to the research achievements featured in this report.

The Institute thanks our supporters, staff, researchers and donors who together play a vital role in the success of our research programs, promoting the efforts of our research centres as together we unite to create hope for those affected and living with disease.

Terry Goldacre
Chairman



Research Directors Report



2011 was an important year for the **Ingham Institute** as we eagerly awaited the completion of our state of the art medical research facility. Research units working across hospital sites in the South Western Sydney Local Health District (SWSLHD) were invited to join and become affiliated with the Ingham Institute.

I am pleased to report that 24 research groups joined the Ingham Institute as together we work to improve health outcomes by generating evidence based solutions through integrated programs of health research. The fulfilment of this mission will not only lead to the improvements in health of people in the area, but it will contribute more broadly to lifting the South West's reputation in medical research and health services, both in Australia and internationally.

We have seen some key appointments across our research streams as well as the establishment of certain research units made available through generous grants from National Health Medical

Research Council, Australian Research Council and Cancer Institute NSW. Professor Paul Keall, NHMRC Research Fellow was appointed to lead the Research Bunker development incorporating the MRI-Linac project which received total funding to date of \$14.7 million dollars.

Another key appointment is Professor Paul De Souza, who has been engaged to establish the Translational Cancer Research Unit made available by Cancer Institute NSW. Professor Afaf Girgis who leads our Psycho-Oncology research unit also joined in 2011. Professor Girgis maintains an impressive track record herself having attracted, with numerous other Chief Investigators, more than \$27.5 million of research funding and successfully applying for 113 grants (including 14 NHMRC grants) and consultancies.

Professor Girgis' work has increasingly focused on health service research, translation of evidence into policy and practice and improving needs based palliative care, as demonstrated by research funding, including an award of over\$1.1 million from the Australian Government Department of Health and Ageing (DOHA) to lead a comprehensive national program of work to improve needs based palliative care; and more than\$1.1 million from Cancer Institute NSW Translational Health Service Research Grants.



The Ingham Institute continues to engage and foster a strong collaborative culture and this is evident of our links worldwide, with our research groups committed to a number of internationally renowned research studies.

We have also continued to build on our research successes by attracting further funding, more awards and prizes and recognition of our dedicated researchers. I am pleased to confirm our researchers have managed to sustain excellent research results building on last year's achievements. We can all be proud of these results, we work together to achieve the common goal of improving health outcomes in the South West.

Each and every research group has made great advances over the last twelve months as we continue to build and grow our research performance year after year. In 2011 we received more than \$18.6 million and had 310 papers published in scientific and academic journals.

To allow our research groups the opportunity to showcase and profile their research studies, the Ingham Institute proudly hosted the 6th Annual Research and Teaching Showcase. Held at Liverpool Hospital, the one-day conference brought together

160 researchers as well as state and national guests of honour to view first-hand the wonderful research efforts of Ingham Institute growing number of researchers. The number of research paper submissions had nearly doubled to more than 110 and the event was opened in a packed plenary session with special addresses given by Professor Phil Harris, Chair of the SWSLHD Governing Council and Professor David Currow, CEO of the Cancer Institute NSW who shared their thoughts and important insights on the direction of cancer research in NSW and clinical research in the South West.

Please take the time to read this report and acknowledge and appreciate the amazing efforts of our researchers and research groups.

Professor Michael Barton OAM
Research Director



Chief Operating Officers Report



2011 was a year of rapid growth and consolidations for the **Ingham Institute for Applied Medical Research**. The Institute started the year with a single large laboratory floor in the Health Services Building on the Liverpool Hospital campus. This laboratory accommodated just six research groups conducting their innovating

ground breaking research in Cancer, Haematology, Inflammatory Diseases and Microbiology. Another 18 research groups were spread across Sydney South West conducting their studies in facilities of University of New South Wales, University of Western Sydney, Liverpool, Bankstown, Fairfield and Campbelltown Hospitals.

During the year, the Ingham Institute research groups consolidated into 6 research streams addressing needs of South Western Sydney and wider community by focusing their research on Cancer, Mental Health & Brain Sciences, Injury, Early Years, Population Health, Primary Care & Health Services and Internal Medicine. This development was directed by a series of planning workshops facilitated by the Institute.

In 2011 the Ingham Institute significantly expanded research support facilities and services. We established a Biostatistics Group that has been

providing statistical and bioinformatics support to all researchers, clinical trial units and students throughout the SWSLHD. Research capabilities have been increased by addition of several high technology platforms that included flow cytometry, real time PCR, advanced biological imaging and centrifugation. New capital equipment purchases were funded by philanthropic donations received by the Institute and infrastructure grants provided by UNSW and UWS while selection and prioritisation by the Institute's Facilities and Equipment Committee chaired by Dr Slade Jensen.

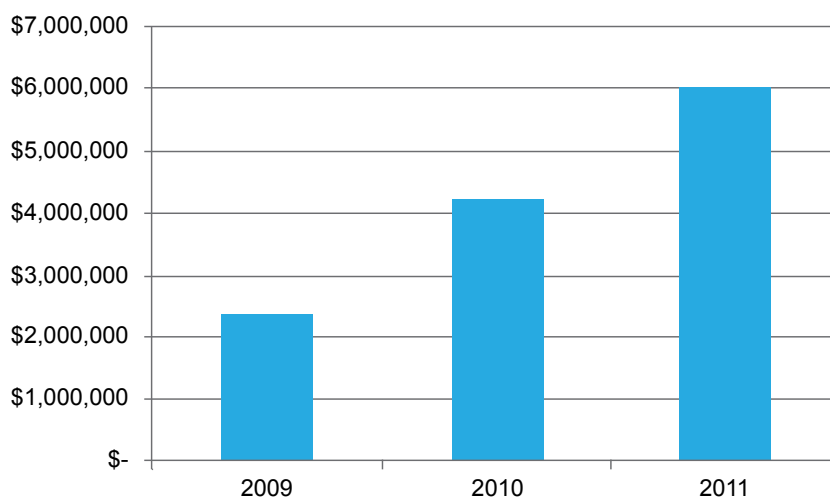
Growth of the Institute's research facilities called for an employment of a Senior Research Coordinator supported by a UNSW grant. The Research Coordinator has been organising and supervising laboratory operations and proving support to all Institute researchers in using new technologies.

2011 was an important year for the Ingham Institute as construction works of our Australian Government funded research facility finally came to fruition. In January, construction of our five storey research facility kicked off. In addition, the Research Bunker and Clinical Skills and Simulation Centres also commenced. The Research Bunker development which incorporates a new cancer therapy device the MRI-Linac (an MRI- coupled with a Linear Accelerator) will be the first in Australia – placing the Ingham Institute at the forefront of development of an advanced targeted cancer treatments.



In the core of this development are continuing efforts of our researchers to increase the volume and competitiveness of their research. During the last three years the amount of competitive research funding obtained by the Ingham Institute researchers from National Competitive Grants Schemes (mostly from NHMRC and ARC) has been increasing year on year by nearly \$2 million, see the chart below.

INGHAM INSTITUTE NATIONAL COMPETITIVE GRANTS INCOME



I thank all Institute staff and affiliated researchers for their tireless efforts and commitment throughout the year and look forward to continued research success from our centres.

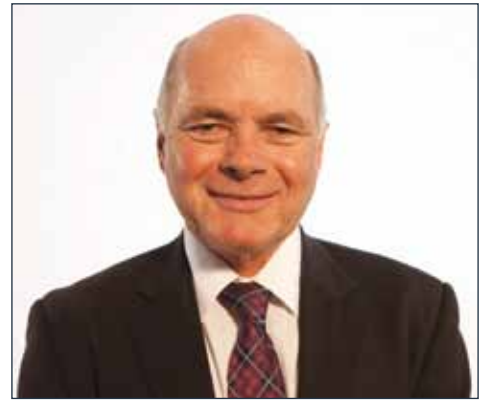
Finally, I would like to acknowledge our partners, namely the South Western Sydney Local Health District, the University of New South Wales and the University of Western Sydney, who have all contributed to this report and assisted the Ingham Institute to translate its research outcomes into benefits for patients.

Associate Professor Greg Kaplan
Chief Operating Officer

Board of Directors

TERRY GOLDACRE, CHAIRMAN

Terry joined the Institute Board in 2008. He is currently the Managing Director of Harrington Estates (NSW) Pty Ltd, which since 1993 has been responsible for the development of the leading residential estate Harrington Park. Prior to this, he held executive positions in the civil engineering and land development industries. He is past president of the Urban Development Institute of Australia (NSW Division) and is a founding trustee of the Harrington Park Foundation.



DR TERESA ANDERSON

Dr Teresa Anderson is the Chief Executive of the Sydney Local Health District. Teresa was previously Director of Clinical Operations of the Sydney South West Area Health Service until she took up her current position in January 2011.



TIM BRYAN

Tim Bryan is a Chartered Accountant; he is a Senior Client Director and Managing Partner of Kelly+Partners South West Sydney, a financial advisory group based at Campbelltown. Tim is a Founding Director and Chairman of the Finance Committee, Kids of Macarthur Health Foundation; Director and Vice Chairman of the Macarthur Business Enterprise Centre Ltd; and Chairman of St Gregory's College Finance Advisory Committee. Tim has a special interest in research into childhood diseases.



DAVID HAZLETT

David Hazlett has lived and worked in the Macarthur area all of his life and is managing director of Cameron Brae Pty Limited a successful family business based in Sydney's south west. Cameron Brae is currently involved in importing and distribution along with property investment and development. David was President of the Liverpool Rotary 1993-1994 and was made a Paul Harris Fellow in 1997. He was previously a committee member of the Health Research Foundation Sydney. He and his family have always supported local charities and organisations.

JOHN HEXTON

John Hexton became a board member in 2008. John has been the Director Corporate Services at Inghams Enterprises Pty Limited since 1987 and has more than 30 years' experience in a wide range of areas within the business including direct responsibility for all financial and legal matters, HR, IT, OHS and property. John is a Fellow of the Institute of Chartered Accountants, the Institute of Chartered Secretaries and the Institute of Directors. John previously served on the Board of St Patricks College, Campbelltown and was the chairman of the Finance Committee at St Gregory's College, Campbelltown.



Board of Directors



PROFESSOR ANNEMARIE HENNESSY

Professor Annemarie Hennessy is the Dean and Foundation Chair of Medicine at the University of Western Sydney. She was the Director of the Hypertensive Disorders of Pregnancy (HDP) Unit at the Royal Prince Alfred Women and Babies (RPAWB) from 1998 until October 2006 and continues in an honorary capacity within the unit.

Annemarie has a commitment to medical research in her capacities as Dean of the School of Medicine, UWS. She is also the group leader of the Vascular Immunology Group at the Heart Research Institute, Director of the NHMRC Baboon Colony, Chair of the NSW University Physician Training Council and Executive Director of the PEARLS Research Group. Annemarie is a Renal Physician with a research interest in Hypertension and Hypertension in pregnancy which she has now been working on for 17 years.

JOHN INGHAM

John Ingham was born at Liverpool and worked at Inghams Enterprises for over 10 years in various positions and was the National Sales and Marketing Manager for a number of years. He is the Managing Director of Upstart Marketing, a Marketing Consultancy focusing on designing and managing web sites for companies large and small for over 15 years.

John attained a Bachelor Of Business Administration (BBA) and is a Graduate of the Australian Institute of Company Directors (GAICD). He was Vice Chairman on the Australian Jockey Club Board and a Board Member till the merger that created the Australian Turf Club. He also served as Chairman of the Australian Stud Book, a director of Racingcorp Pty Ltd and Australian Genetics Testing Pty Ltd.



DEBBIE KILLIAN

Debbie Killian has 25 years' experience working in health, education, community welfare and local government in greater western Sydney – much of it in the South West. This has included senior roles in managing community health services; inpatient and outpatient allied health services; and community development programs among a range of other service types. Recently she worked as a consultant to a range of agencies including SSWAHS, providing specialist skills in service planning and management in the areas of health, welfare and education services. Ms Killian has been a team member on a number research projects including in the areas of primary health care and preventative care. She has a particular interest in ensuring that the health needs of the most vulnerable and marginalised in the community are appropriately considered and our skills further developed to effectively address them.

Board of Directors



AMANDA LARKIN

Amanda Larkin is the Chief Executive of South Western Sydney Local Health District. Previously Amanda worked as the General Manager of Camden and Campbelltown Hospitals and the Queen Victoria Memorial Home. Ms Larkin has a Bachelor of Social Work, Associate Diploma in Environmental Service and is working towards a Masters in Public Health. Amanda has over 25 years of experience in health service management working in the areas of community health, corporate services and acute service management in small and large health services. She has done extensive work with management committees and boards of non-government organisations including neighbourhood centres, day care centres, short term and accommodation facilities for men and women. Her specific areas of focus are leadership, governance, patient quality and safety and health service planning and development.

JIM MARSDEN

Jim Marsden is the Senior Partner at Marsdens Law Group. His firm is based primarily at Campbelltown with offices at Liverpool, Camden and the City of Sydney. Jim has a history in a number of areas of community involvement. His past involvement includes Chairman of West Magpie Rugby League, Wests Tigers, the Chamber of Commerce, and board membership of NSW Rugby League and Odyssey House. Jim currently Chairs The Macarthur Club and the Macarthur Development Advisory Group based out of Campbelltown



TONY PERICH

Tony is the Joint Managing Director of Leppington Pastoral Company, Organic Fertilisers [Leppington], the Greenfields Development Company, Arrowvest, Narellan Town Centre and Dart West Development Ltd. Tony has an outstanding record of service within the local community having previously served as President of Narellan Rotary, Chairman of the Fundraising Committee for the Spastic Centre's Growth Point Project in Liverpool, Vice-President of the Narellan Chamber of Commerce and President of the Dairy Research Foundation of the University of Sydney. In addition Tony is an ongoing member of the Urban Taskforce, the Property Council of Australia and the Urban Development Institute of Australia. He has enormous interest in all areas of medical research and development with a particular interest in cancer research.



Board of Directors

A/PROFESSOR ANTHONY M SCHEMBRI

Associate Professor Anthony Schembri is the General Manager of Liverpool Hospital and conjoint appointee in the South Western Sydney Clinical School of the Faculty of Medicine at the University of New South Wales. Anthony is a Fellow of the Australian College of Health Service Executives and a member of the Clinical Excellence Commission (CEC) Hand Hygiene Advisory Committee and the Expert Group on Preventing Hospital Acquired Infections and previously appointed to the Clinical Council of the CEC.

He previously held a statutory appointment as a Tribunal Member of the NSW Administrative Decisions Tribunal (ADT) and the NSW Appeal Panel of the ADT. Anthony is a Surveyor for the Australian Council on Health Care Standards. In a volunteer capacity, Anthony has been active working with marginalised young people and was President of Twenty-Ten Youth Services and Official Visitor for the former Community Services Commission advocating for the rights of children in out of home care and Deputy Chairman of the NSW Government Youth Advisory Council. Anthony has held appointment as a National Director for Allied Health Professions Australia and both National Board and State Committee for the Australian Association of Social Workers.



PROFESSOR PETER J SMITH

Professor Peter Smith is Dean of Medicine at The University of New South Wales. He specialised in paediatric clinical oncology and research following study in Australia, USA and Germany. He has held senior hospital management posts in Brisbane and Melbourne and senior academic appointments at the Universities of Queensland, Melbourne and Auckland.

Professor Smith is currently a Director of St Vincent's Health Australia, a not-for-profit hospital group with revenue of \$1.6 Billion annually and is Chair of the Board's Safety and Quality Committee. He is also a Director of the Garvan Institute of Medical Research, Neuroscience Research Australia and a number of other research centres and institutes. Professor Smith is a Group

Captain, RAAF SR and Clinical Director, Health Administration and Education, Directorate of Health Reserves, Air Force and has served as a consultant to government, including as Chair of the 'Inquiry into Vietnam Veterans Cancer Incidence and Mortality'.

ARNOLD VITOCO

Arnold Vitocco is a local Macarthur resident and licensed builder. His families development company, D. Vitocco Constructions Pty Ltd has been building and developing in the Liverpool and Macarthur region since the late 1950s. Notable developments by his family company include the Narellan Town Centre and Gregory Hills, a 2,500-lot subdivision and 43 hectares of employment zone. Arnold is a member of Narellan Chamber of Commerce and is a committee member of the St Gregory's College, Campbelltown. He was a Board Director of the South Western Sydney Area Health Service 1997-2003 and a committee member of the Health Research Foundation Sydney South West, which successfully helped raise \$8 million.





Ingham Institute Infrastructure Grants

In 2008, the Ingham Institute board of Directors pioneered its own research program supporting the work of its researchers through its Western Zone Research Infrastructure grants program. The program was specifically designed to entice research collaborations and increase much needed program areas of research for the South Western Sydney Local Health District.

A large number of applications were received from the two rounds of funding, which has seen the commitment of \$800,000 from the Ingham Institute. These research programs are all well underway, with some projects yet to finalise outcomes and publish their works.

Below is a snapshot of Ingham Institute's funded grants:

CIRCULATION STUDY

The CIRCULATION Study headed by Professor John French was activated in December 2009. The research programs brings together thematic group of studies focusing on new aspects and modalities in non-invasive imaging of the heart, as well as invasive imaging and interventions mainly in patients with recent heart attacks. Highly accurate information can be obtained on the status of patients with heart attacks, heart failure and arrhythmias in terms of early diagnosis, identification of aetiologies, risk stratification, and possible management strategies including during late follow up. The study continues.

OPTIMISING REHABILITATION OUTCOMES

A collaboration of allied health professionals from Bankstown-Lidcombe Hospital, the University of Sydney and George Institute were awarded a \$200,000 research grant by the Ingham Institute. The grant supported a program of research aimed at optimising rehabilitation outcomes for people during their hospital admission who were older, who had fallen and sustained a fracture, and people with a stroke.

There were two broad project aims: (1) to optimise patient outcomes, and (2) to build research capacity in allied health staff at the hospital. Both aims were achieved:



1. Optimising patient outcomes

A total of 13 projects were conducted which contributed in various ways to optimising patient outcomes. The first project helped improve our understanding of how inpatients spent their time during admission to the stroke unit, and how this time and practice could be better organised (Study 1). Observation studies quantified the amount of exercise and number of practice repetitions completed by individual patients of lower limb, swallowing and upper limb practice (Studies 3, 10, 12).

These three studies are helping to improve our understanding of the relationship between exercise and patient outcomes and provide insights into patients' walking, swallowing, reaching and manipulating outcomes. Study 7 enabled staff to examine compliance with national stroke guideline recommendations and implement current best practice. File audits over three years and feedback provided to staff helped improve compliance with guideline recommendations by up to 100%. Three randomised controlled trials (RCTs) have been conducted to examine the effectiveness of specific interventions to address impairments (Studies 6, 9 and 11).

2. Increase the Research Capacity of Allied Health Staff

The group's vision was to establish a network of allied health clinician researchers who would continue to work collaboratively beyond the life of the project. It was envisaged that this network would promote the skills and knowledge gained across the South Western Sydney Area health Service as well as the broader community of allied health professionals both nationally and internationally. To this aim the inaugural SWSLHD Allied Health Research Conference was held in 2011.

A primary aim was to increase research capacity and research output of allied health staff in the Aged Care and Rehabilitation Unit at Bankstown-Lidcombe Hospital. This aim was achieved with 3 staff enrolled in either Masters or PhD research degrees (PhD research: Kate Scrivener and Masters research: Kate Vickers, Angela Vratisistas). In addition, allied health staff on the Aged Care Rehabilitation wards have been involved in the implementation of projects increasing their knowledge and commitment to optimising patient outcomes. Nine staff presented outcomes at conferences, often for the first time. Awards were received at conferences by occupational therapy honours student, Alison King, physiotherapy staff members Karl Schurr and Kate Scrivener, and occupational therapist Hannah Munro.

Early Years Research Group

The Early Years Research Group (EYRG) is a multidisciplinary collaboration, bringing together a number of groups including Allied Health, Centre for Health Equity Training Research and Evaluation (CHETRE), Child and Family Nursing, Cochrane Prognosis Methods Group (CPMG), Department of Community Paediatrics, Feto-Maternal Unit, Infant, Child and Adolescent Mental Health (ICAMHS), Karitane, Neonatal Intensive Care Unit (NICU), Research, Evaluation, Monitoring and Surveillance (REMS) and the Simpson Centre. The group is continually expanding to include other groups/health professionals interested in early years research.



The EYRG was established to advance the understanding of early developmental origins of health and disease. Our goal is to translate research outcomes into clinical practice to improve the prognosis and outcomes of children and the delivery of better health services to children and their families. We are achieving this by strengthening and facilitating collaborative research among Perinatal, Paediatric and Child Health Researchers and by improving research capacity, productivity and quality through the training and mentoring of early career researchers.

The EYRG has been holding research meetings every two months. These meetings serve as a platform for early years research to be discussed and potential new research ideas and/or collaborations to be identified. As a result of these meetings a number of collaborative research projects have been initiated within the EYRG, including a flagship project investigating maternal and child health associations and outcomes. This is a data linkage project of a birth cohort from both SWSLHD and SLHD and involves the linkage and exploratory analysis of routinely collected mother and child health data. Specific targeted research questions are currently being developed for this project and data collation is underway.

Through the CPMG, the EYRG continues to be committed to supporting the development of best methodological standards for conducting prognostic systematic reviews which are essential for informing diagnosis or identification of groups at high risk of adverse outcomes. EYRG researchers involved in the CPMG have been working with existing Cochrane entities to ensure the best use of prognostic evidence when writing Cochrane reviews and have recently authored two systematic reviews focusing on autism spectrum disorder diagnosis and outcomes. Recently, the Steering Committee of the Cochrane Collaboration agreed to support the inclusion of exemplar systematic reviews of prognosis in the Cochrane Library. EYRG members will work with the CPMG to develop three exemplar prognosis systematic reviews, each of which will relate to three main types of prognosis research questions. This will lead to the production of high-quality systematic reviews of prognosis in a timely manner.

In order to monitor the productivity of early years research, a database capturing details of all SWSLHD and SLHD personnel involved in early years research and their research details/outputs is being developed. This database is being used to map the early years research that is being conducted within the LHDs and currently contains close on 100 research and/or clinical quality improvement projects. This number is steadily increasing due to the support being provided to early career researchers by other members of the EYRG. Significant assistance has been provided to early career researchers and a number of training workshops have been held in areas of project design, ethics applications, project methodology, data analysis and dissemination. This capacity building is paramount to successful early years research and to the sustainability of the EYRG.

Primary and Community Health Research Unit (PCHRU) South Western Sydney Local Health District

The aim of this grant was to establish PCHRU as one of the leading primary and community health (P&CH) research units in Australia, generating an evidence base for P&CH services and translating this evidence into policy and practice to improve the health of the people of south western Sydney. PCHRU is doing this through:

1. Developing a research mentoring and training program based on active learning to support novice researchers doing research of direct relevance to P&CH.
2. Working with key P&CH staff to encourage and support specific research activities.
3. Undertaking a research capacity and culture review that will collect information on opportunities and barriers to research activities in P&CH.

Highlights

1. **Research mentoring program:** The research mentoring and training program has been well received. During 2011-2012, 10 projects were supported. Project teams commit to completing their projects within an agreed time, to preparation of a publication for their professional literature, and to presenting their work at professional conferences including the Ingham Showcase.
2. **Brokered project:** Discussions with primary and community health are ongoing to identify senior staff with an interest in research to support them to undertake research of direct relevance to the clinical services for which they are responsible.
3. **Research culture and capacity review:** PCHRU has worked closely with the General Manager of Community Health and the executive to develop a research culture and capacity review to identify the opportunities and barriers to research within community health services. These data will be used to inform the development of a research strategy and implementation plan for community health that will complement the research strategy for the SWSLHD.

The infrastructure grant has resulted in completion of a number of projects, increased publication and dissemination of activities through local and national conferences. Primary and community health researchers involved with PCHRU have shown great enthusiasm towards research activities. PCHRU's approach to research capacity building in primary and community health appears to be efficient and is sustainable with ongoing funding. The Unit has been successful in securing ongoing funding from the Division of Community Health and the LHD for 2013-2014.

PCHRU staff has presented PCHRU work at a number of conferences. A presentation at the ARATA conference recently received a best paper award. A paper reporting on the first year of PCHRU has been accepted by the Australian Journal of Primary Health.

Biomedical Research Laboratories

The Ingham Institute Board allocated \$640,000 towards setting up a high tech biomedical research laboratory to provide new facility to research into cancer, infectious diseases and inflammation. Advanced equipment has been acquired to gain insights into genetics of diseases and impact of novel drugs on functioning of human cells. Research performed in this laboratory to date has been widely published and there are plans underway to initiate Clinical studies with therapeutic compounds under development in the laboratory.



Our Research



Cancer

STREAM LEADER: PROFESSOR GEOFF DELANEY



This group was established in 2011 and is governed by a Steering Committee that reports to the South Western Sydney Local Health District (SWSLHD) Cancer Clinical Council. There is representation from a broad cross-section of cancer care, from laboratory-based research through to direct clinical care-based

research. Significant focus has been spent this year on establishing the South West Sydney Translational Cancer Research Unit (SWSTCRU), which was successful in receiving a grant from the NSW Cancer Institute (NSWCI) of \$1.67M over 3 years to assist with the establishment of the unit. The leader of this unit is Professor Paul DeSouza.

The purposes of the grant is to ensure that there is a collaborative link between bench side research and the bedside with a feedback loop back to the bench, ensuring that basic laboratory research leads to effective changes in patient care at the bedside. To assist with the establishment of the unit, we welcome Dr Norbert Kienzle, appointed as Program Manager, and Dr Nicole Caixeiro, who has been employed to facilitate the process of tumour biobanking at South Western Sydney (SWS). Together, they bring experience and expertise in cancer research and development of cancer therapeutics.

Additional funding from the NSWCI grant is being used to employ Clinical Fellows and PhD students in Cancer research and to develop the Psycho-Oncology research program, through the appointment of Professor Afaf Girgis.

Our groups have also been busy getting settled into their fantastic new premises at the Ingham Institute for Applied Medical Research's research building enabling them to conduct true collaborative research without having to travel distances to talk with each other. This change has been very positively received by the groups. The entire TCRU group has been working on what is currently termed our "Flagship Research Programme", which is attempting to systematize research in cancer into everyday practice in South West Sydney SWS.

This involves developing pathways where as many patients as possible are included in the research of our group, including providing the opportunity for all cancer patients, provided that they consent, to provide tissue for biobanking and molecular testing (under the expert guidance of Professor Soon Lee), and the collection of patient data so that molecular profiles can be linked with clinical outcome in a systematic way, and the collection of patient-reported psychosocial outcomes to inform best quality psycho-social care across the cancer journey. One of the many strengths that the cancer research group has is that we have a large patient base, that is ethnically, linguistically and culturally diverse, and this provides unique research opportunities aimed at improving the care of our culturally-diverse cancer patients.

Major achievements of the cancer groups include several large National Health and Medical Research Council (NHMRC) grants. The first is a \$5.7 million NHMRC Program Grant for the next five years, and an Australian Research Council (ARC) discovery grant of \$400 000 for the Australian Research Bunker Project. This exciting project involves the development of a brand new piece of technology where an MRI scanner and a radiation linear accelerator are co-located in order to target tumours with radiation to an even higher accuracy than has been achieved before. This is only one of three such facilities in the world and the only one in the Southern Hemisphere. The second is an NHMRC grant for the Pancreatic Research Group for studies examining the role of stromal cells, specifically pancreatic stellate cells, in chronic pancreatitis which is a known major risk factor for pancreatic cancer. The Pancreatic Research Group has obtained novel findings using a mouse model of pancreatic cancer, demonstrating that targeting pancreatic stellate cells with specific treatment can significantly decrease cancer progression. The third is a \$718, 000 NHMRC grant for 4 years to develop and test a coping skills intervention to assist couples affected by cancer. Our next major project is developing an area within the Liverpool Hospital as a Phase I clinical trials centre, where new drugs for cancer therapy can be tested and trialled.

CANCER PATHOLOGY AND CELL BIOLOGY

Group Leader: Professor Soon Lee

The group focuses on research on common human cancers such as breast, prostate, colorectal and oropharyngeal cancers, specifically in the investigation of biomarkers of prognosis and treatment response.

Led by Professor Soon Lee, research is also undertaken on innovative methods of treatment in animal models that can be subsequently translated to human cancer management such as targeted alpha therapy. The group is also interested in invitro modelling of newly discovered genes or molecules that may be important in the pathogenesis of some of the common human malignancies.

Research Highlights

- \$450k has been received by the group to establish the Breast Cancer Tissue Bank. The bio bank will provide Australian researchers and overseas

researcher's access too much-needed samples for vital research into the prevention, early detection, diagnosis and treatment of various types of cancers.

- Cancer Institute NSW is funding Professor Lee to study closely biomarkers for the diagnosis and prognosis of common cancers in the community such as breast, colorectal, prostate and head and neck cancers.
- Procured the latest BioStation which will set the Ingham Institute at the forefront of medical imaging with only two medical Institute's in NSW having ownership of such an intelligent piece of equipment. The device allows the group greater review of malignant cells and live culture through different applications and diagnostic measures. The BioStation will improve the imaging of cells forty times more than a normal microscope.

CENTRE FOR MEDICAL RADIATION PHYSICS, UNIVERSITY OF WOLLONGONG

Group Leader: Professor Anatoly Rozenfeld

Centre for Medical Radiation Physics (CMRP) is a largest education and research institution in medical physics in Asia and Pacific. The major research program is concentrating on development of radiation instrumentation for quality assurance in radiation therapy including medical LINACs and hadron therapy, dosimetry in diagnostic radiology, radiation imaging, and radiation transport simulations.

CMRP is an internationally recognised leader in semiconductor radiation dosimetry and microdosimetry and its application IGRT including MRI LINAC, proton, heavy ion and synchrotron microbeam radiotherapy and space.

Strong Monte Carlo simulations research program is directed to understanding of the synergetic effect of the magnetic and radiation fields on DNA damage, RBE enhancement from nanoparticles in all kinds of radiotherapy and macroscopic dose effects on MRI-Linac

Strong experimental research program in proton and heavy ion therapy including proton CT, micro- and nano-dosimetry is carried out in conjunction with major international hadron therapy facilities in the USA, Europe and Japan.

Research Highlights

- Developed and implemented in clinical practice Dose Magnifying Glass (DMG) high spatial resolution real time dosimetry system for Stereotactic Radiation Therapy and Tomotherapy QA.
- Developed and implemented in clinical practice Magic Plate (MP)- 2D advanced real time dosimetry system for QA on medical LINACs.
- Developed dosimetry system X'Trem for synchrotron Microbeam Radiation Therapy and tested successfully at ESRF, France.
- Granted US and Canadian Patents on Urethra Dosimetry for Low Dose Rate Brachytherapy.
- Received NHMRC funding to the tune of \$526k for studies into "Improving radiation therapy by using high spatial resolution real time dosimeters for static and movable targets".
- Holloway, Delaney, Metcalfe et al project grant submitted, "Quantifying the impact of the choice of imaging for breast cancer radiotherapy treatment planning and verification". Cancer Australia Grant -successful, \$391K.
- Progress: Distortion phantom tests in three MRI systems, GE 1.5 T (location Spectrum), Philips 1.5 T (location ICCG), Siemens Skyra 3 T (location Newcastle). Measurements performed and analysed by honours student. The study highlights that it is critical to select image sequences that are less prone to distortion or in particular reconstruction artefacts.
- A prototype generation of first ceramic magnet design was formulated that simulates transverse and in line magnetic field is currently in design stage, which will enable the testing of external beam semiconductor dosimetry systems in magnetic fields approaching 0.5T.
- Demonstrated effects of RBE enhancement in X-ray fields from newly developed at CMRP and EPSM nanoparticles in application to radio resistant cell lines. Research was carried out in framework of newly formed NanoTeam comprised of medical physicists, biologists and material scientists.
- Prof Anatoly Rozenfeld was an Invited Speaker at "2nd International Workshop on Hadron Beam Therapy of Cancer", Erice, 20-27 May, 2011, Italy & Lecture at 7th International Workshop on Individual Monitoring of Ionizing Radiation, Chiyoda Technol Inc, 3-5 Dec., 2011, Oarai, Japan.

- Prof A. Rozenfeld was featured in Australian Unlimited Magazine, <http://www.australiaunlimited.com/science/detecting-radiation>
- Dr Susanna Guatelli founded "Australian GEANT 4 International Workshop".
- Marie Curie Initial Training Networks (ITN): FP7-PEOPLE-2011-ITN European Grant: Advanced Radiation Dosimetry European Network Training (ARDENT), 3.9M Euro.



COLLABORATION FOR CANCER OUTCOMES RESEARCH AND EVALUATION (CCORE)

Group Leader: Professor Michael Barton

The aim of the CCORE unit, led by Professor Michael Barton, is to improve cancer outcomes through the implementation of best practice measures and service innovation into routine clinical practice. CCORE fulfils a requirement for ongoing research and evaluation to the highest international standards in an area of rapidly changing technology and high patient expectations for improved outcomes.

The CCORE research unit endeavours to:

- Develop research, education and mentoring programs in association with co-located university faculties and foster a clinical research ethos in the oncology professional community.
- Foster collaborative links with relevant researchers and research stakeholders.
- Increase both Cancer Services research visibility and research publications.
- Facilitate the transfer of research findings into policy and practice.
- Facilitate opportunities for population based research.

Research Highlights

- Since the establishment of the CCORE unit in 1999, over 140 articles covering a wide range of cancer research have been published in peer reviewed medical journals. Over 30 reports have been completed.
- A number of large collaborative studies that have had a major impact on policy or practice in relation to state, national and international strategic planning projects for cancer services have been completed
- The Unit is finalising its project funded to the tune of almost a million dollars from the National Health and Medical Research Council for its work in improving quality of life at the end of life: a randomised controlled trial of a doctor / nurse / patient intervention
- Dr Susannah Jacobs was awarded PhD at the School of Public Health, UNSW for her studies into “The Role of Chemotherapy in Cancer Treatment: Estimating the optimal utilisation of chemotherapy in cancers of the breast, upper gastrointestinal tract, gynaecological tract, head and neck, genitourinary system (excluding prostate and testicular), melanoma, thyroid and unknown primary from a review of evidence based clinical guidelines’, supervised by Professor Michel Barton and A/ Professor Rosemary Knight.
- Four PhD students are currently supervised from the unit for studies into tracing radiotherapy patterns, treatment and radiotherapy measures for selected cancer types.

GASTROINTESTINAL VIRAL ONCOLOGY GROUP

Group Leader: Professor Shan Rajendra

The Gastro-Intestinal Viral Oncology Group focuses on infectious causes of Gastro-Intestinal Cancer with a special emphasis on Barrett’s Oesophagus, a precancerous condition of the oesophagus.

This was the first group in the world to hypothesise and publish that high risk Human Papilloma Virus (HPV) may be associated with precancerous and cancerous lesions of the oesophagus based on similarities in immunology and genetics with cervical tumours. Initial results of



research supports this theory and the group expects to publish their landmark study before the end of the year, which has the potential to lead to vaccination against certain types of Oesophageal Cancer.

In addition, the Gastrointestinal Viral Oncology group was the first in the world to isolate a gene associated with Barrett’s Oesophagus and to demonstrate that the bacterium *Helicobacter pylori* reduced the length of the precancerous segment in the oesophagus by almost 50 per cent.

The group also has collaborations with the Westmead Millennium Institute for Medical Research and the School of Human Life Sciences, University of Tasmania, Launceston.

Research Highlights

- Received NHMRC funding for its studies into H1N1 Real-time and quantitative monitoring of the emergence of oseltamivir resistance during the current influenza pandemic.
- Published papers relating to Genome-wide analysis of primary CD4+ and CD8+ T cell transcriptomes shows evidence for a network of enriched pathways associated with HIV disease in Retro virology.
- Professor Rajendra has been studying Barrett’s oesophagus and cancer risk: a more realistic estimate with papers published in *Semin Thorac Cardiovasc Surg.*

MEDICAL PHYSICS

Group Leader: Professor Paul Keall

The Medical Physics unit headed by Professor Paul Keall uses basic science and clinical research to improve patient outcome. The key focus of our research is on radiation oncology treatment and related imaging techniques. Our major research project is the development of an Magnetic Resonance Imaging – Linear Accelerator (MRI-Linac). This is one of only three other similar developments worldwide and will enable real time imaging of patient anatomy during radiotherapy treatment and the potential of improved cancer targeting and a reduction in treatment side effects. Improved cancer targeting will be possible through increased soft tissue contrast available with MRI and the potential of incorporating physiological cancer targeting through advanced MRI pulse sequences.

Supporting this research are other projects assessing the benefits of MRI and other imaging modalities for radiotherapy treatment planning and delivery, the use of advanced radiation dosimeters for treatment verification and the impact of uncertainties in radiotherapy delivery. This work is undertaken within the cancer therapy centres at Liverpool and Macarthur and other collaborating centres. Component projects are focused on specific clinical sites such as lung, breast and prostate.

Research Highlights

- \$5.7 million NHMRC grant over five years.
- Presentation of papers at 31 local and international conferences.
- Research Bunker under construction.
- MRI-Linac equipment purchases are underway.
- Key conceptual projects underway to inform equipment design.
- Received Cancer Institute NSW funding for its studies into making radiotherapy safer and more accurate: developing detector technology for the next generation in treatment verification systems.
- Professor Paul Keall presented his paper on ‘The Australian MRI-Linac project: Towards Real Time Image Guided Adaptive Radiotherapy, TROG, Darwin, 2011.

ONCOLOGY CLINICAL TRIALS



Group Leader: Dr Michael Harvey

2011 has seen significant improvements for the Clinical Trials Unit. The Unit recruited three new staff members and is looking to expand further with the appointment of a further three members. Great improvements in data management have been recorded and recruitment has increased at both Liverpool and Campbelltown hospital sites. The Unit has continued to strive to provide patients attending the Cancer Therapy Centres with easier access to clinical trials and other novel treatments.

Some of the significant achievements over the reporting period are summarised below:

- Appointment of the New Director of Clinical Trials Unit, Dr Michael Harvey.
- Introduction of the role of a clinical trials Pharmacist into the trials unit.
- Total number of patients recruited to studies at the site, increased from 150 in the previous year reported (2010) to 155 in 2011.
- Increased participation in the labour intensive pharmaceutical sponsored studies.
- Site has been audited 2 times in 2011 (COMPLETE & IBIS II), with no major findings.
- Trials staff attended the relevant National Cancer Trials meetings (ANZGOG, ANZBCTG; ATITG; ALLG, TROG) to increase knowledge and staff satisfaction.

There are a large number of clinical trials well underway at the Ingham Institute and below is a snapshot of some of our studies:

RESEARCH FIELD	CLINICAL TRIAL NAME	DESCRIPTION	SPECIALITY
BRAIN	AGOG	Australian Genomics and Clinical Outcomes of Glioma.	Radiation Oncology
	ACT IV	Glioblastoma: An International, Randomized, Double-Blind, Controlled Study of Rindopepimut/GM-CSF with Adjuvant Temozolomide in Patients with Newly Diagnosed, Surgically Resected, EGFRvIII-positive Glioblastoma.	Medical Oncology
BREAST	Bayer RESIL1qENCE study	A Phase III Randomized, Doubleblind, Placebo controlled Trial Comparing Capecitabine Plus Sorafenib Versus Capecitabine Plus Placebo in the Treatment of Locally Advanced or Metastatic HER2Negative Breast Cancer.	Medical Oncology
	Breast Mask Study	Large Breast Mask Immobilisation Study: LBIS.	Radiation Oncology
	BREAST Setup	'What Factors Affect The Level of Set-Up Error for Radiation	Radiation
	Study	Therapy to the Breast and is Cone Beam an Accurate Method for Determining Breast Set-Up Error?'	Oncology
	BONES Study	Prevention of Osteoporosis as a Consequence of Hormone Treatment in Postmenopausal Women Treated for Breast Cancer.	Medical Oncology
	CATS(BNP)	Prediction of Cardiotoxicity Using serum N-terminal pro-B-Type Natriuretic Peptide in Breast Cancer Patients Receiving Adjuvant Trastuzumab.	Medical Oncology
	Radiation Echo Study	The Use of Advanced Echocardiographic Techniques for the Assessment of Cardiac Function during the Acute Phase after Radiation Treatment for Left Sided Breast Cancer.	Radiation Oncology
	STARS 08.06	A Randomised Comparison of Anastrozole Commenced Before and Continued During Adjuvant Radiotherapy For Breast Cancer Versus Anastrozole and Subsequent Anti-Oestrogen Therapy Delayed Until after Radiotherapy [STARS – Study of Anastrozole and Radiotherapy Sequencing.	Radiation Oncology

RESEARCH FIELD	CLINICAL TRIAL NAME	DESCRIPTION	SPECIALITY
	TROG DCIS	Randomised Phase III Study of Radiation Doses and Fractionation Schedules in Non-Low Risk DCIS of the Breast.	Radiation Oncology
	SORBET	A Single Arm Phase II Study of the Efficacy of Tamoxifen in Triple Negative (oestrogen receptor a negative, progesterone receptor negative, HER-2 negative) but Oestrogen Receptor.	Medical Oncology
COLORECTAL	CHALLENGE	A Phase III Randomized Study of the Impact of a Physical Activity Program On Disease-Free Survival in Patients With High Risk Stage II or Stage III Colon Cancer.	Medical Oncology
	I4T-MC-JVBB	A Randomized, Double-Blind, Multicenter Phase III Study of Irinotecan, Folinic Acid, and 5-Fluorouracil (FOLFIRI) Plus Ramucirumab or Placebo in Patients With Metastatic Colorectal Carcinoma Progressive During or Following First-Line Combination Therapy With Bevacizumab, Oxaliplatin, and a Fluoropyrimidine	Medical Oncology
	SCOT	Short Course Oncology Therapy, a Study of Adjuvant Chemotherapy in Colorectal Cancer.	Medical Oncology
GASTRIC	RAINBOW	A Randomized, Multicenter, Double-Blind, Placebo-Controlled Phase III Study of Weekly Paclitaxel With or Without Ramucirumab (IMC1121B) Drug Product in Patients With Metastatic Gastric Adenocarcinoma, Refractory to or Progressive After First-Line Therapy With Platinum and Fluoropyrimidine	Medical Oncology
	TOPGEAR	A Randomised Phase II/III Trial of Preoperative Chemoradiotherapy Versus Preoperative Chemotherapy for Resectable Gastric Cancer.	Radiation Oncology
GENITOURINARY	OUTBACK	A Phase III Trial of Adjuvant Chemotherapy Following Chemoradiation as Primary Treatment for Locally-Advanced Cervical Cancer Compared to Chemoradiation Alone.	Medical Oncology
	RRR Decision Aid	Evaluation of a Decision Aid to Help Women with Platinum Resistant or Refractory Recurrent Ovarian Cancer Decide Whether or Not to Have Chemotherapy.	Medical Oncology

RESEARCH FIELD	CLINICAL TRIAL NAME	DESCRIPTION	SPECIALITY
GYNAECOLOGY	PARAGON	Phase II study of Aromatase Inhibitors in Women with Potentially Hormone Responsive Recurrent/Metastatic Gynaecological Neoplasms.	Medical Oncology
	PORTEC-3	Randomized Phase III Trial Comparing Concurrent Chemoradiation and Adjuvant Chemotherapy with Pelvic Radiation Alone in High Risk and Advanced Stage Endometrial Carcinoma.	Radiation Oncology
	OUTBACK	A Phase III trial of Adjuvant Chemotherapy Following Chemoradiation as Primary Treatment for Locally-Advanced Cervical Cancer Compared to Chemoradiation Alone,	Medical Oncology
HCC	REACH	A Multicenter, Randomized, Double-Blind, Phase III Study of Ramucirumab (IMC-1121B) Drug Product and Best Supportive Care (BSC) Versus Placebo and BSC as Second-Line Treatment in Patients With Hepatocellular Carcinoma Following First-Line Therapy With Sorafenib.	Medical Oncology
LUNG	ABC ITV	Active Breathing Coordination to Measure Tumour Motion in Lung Cancer Patients: A Feasibility Study.	Radiation Oncology
	MRI	A Feasibility Study On Incorporating Dynamic MRI Data in Radiotherapy Planning for Lung Cancer.	Radiation Oncology
	NITRO	A Phase III Randomised Trial of Adding Nitroglycerin to First Line Chemotherapy for Advanced Non-Small Cell Lung Cancer.	Medical Oncology
	PACT NSCLC	Preferences for Adjuvant Chemotherapy in Non-Small-Cell Lung Cancer: What Makes It Worthwhile To Patients and Their Doctors.	Medical Oncology
	Pfizer A8081014 NSCLC	Phase III, Randomized, Open-Label Study Of The Efficacy And Safety Of Crizotinib Versus Pemetrexed/Cisplatin Or Pemetrexed/Carboplatin In Previously Untreated Patients With Non-Squamous Carcinoma Of The Lung Harboring A Translocation Or Inversion Event Involving The Anaplastic Lymphoma Kinase (Alk) Gene Locus.	Medical Oncology
PANCREAS	LAPC	Phase 2 Placebo-Controlled Double-Blind Trial of Dasatinib Added to Gemcitabine for Subjects with Locally-Advanced Pancreatic Cancer.	Medical Oncology

RESEARCH FIELD	CLINICAL TRIAL NAME	DESCRIPTION	SPECIALITY
PROSTATE	RAVES	A Phase III Multicentre Randomised Trial Comparing Adjuvant Radiotherapy (RT) With Early Salvage RT In Patients With Positive Margins Or Extraprostatic Disease Following Radical Prostatectomy.	Radiation Oncology
RENAL CELL CARCINOMA	SORCE	A Phase III Randomised Double-Blind Study Comparing Sorafenib With Placebo In Patients With Resected Primary Renal Cell Carcinoma at High or Intermediate Risk of Relapse.	Medical Oncology
PSYCHOLOGY	CeMPED	Improving Quality of Life in Advanced, Incurable Cancer: A Randomised Controlled Trial of a Combined Oncologist and Nurse-Led Intervention.	Psychology
SKIN	MP3	A Phase II Efficacy Study of Chemo-Radiotherapy in PET Stage II and III Merckel Cell Carcinoma of the Skin.	Radiation Oncology
PALLIATIVE	SEED	Self-Reported Evaluation of the Adverse Effects of Dexamethasone.	Palliative
HAEMATOLOGY	ENESTxtnd	Extending Molecular Responses with Nilotinib in Newly Diagnosed Chronic Myeloid Leukaemia (CML) Patients in Chronic Phase.	Haematology
	MDS4	A Randomised Phase II Study Comparing the Efficacy of 5 Azacitidine Alone Versus Combination Therapy with Lenalidomide and 5 Azacitidine in Patients with Higher Risk Myelodysplastic Syndromes (MDS) and Low Marrow Blast Count Acute Myeloid Leukaemia (AML).	Haematology
	NHL21	Early Treatment Intensification with R-ICE Chemotherapy Followed by Autologous Stem Cell Transplantation Using Z-BEAM for Patients with Poor Prognosis Diffuse Large B-Cell Lymphoma as Identified by Interim PET/CT Scan Performed After Four Cycles of R-CHOP-14 Chemotherapy.	Haematology
	Ablynx ATTP	A Phase II, Single-Blind, Randomised, Placebo-Controlled Trial to Study The Efficacy And Safety Of Antivon Willebrand Factor Nanobody Administered As Adjunctive Treatment To Patients With Acquired Thrombotic Thrombocytopenic Purpura.	Haematology



PALLIATIVE CARE CLINICAL TRIALS AND RESEARCH UNIT

Group Leader: A/Professor Meera Agar

Palliative care provides for people with progressive illness and their families. Led by A/Prof Meera Agar, the research of this unit is aimed to explore new medications and new models of care that can provide better outcomes to improve quality of life.

Palliative care research, a field that is relatively new to the research agenda, will be of increasing importance as Australia confronts a rapidly ageing community.

Research Highlights

- A case conferencing approach for older people living with advanced dementia in residential aged care. The team was successful in obtaining 1.5M over five years from DOHA Flexible funds.
- Almost half a million dollars was successfully obtained from NHMRC into a multicentre, randomised controlled trial to evaluate the effectiveness of an algorithmic approach to the diagnosis and management of constipation in palliative care.
- The team currently has over 10 investigator led clinical trials open for recruitment in the Local Health District.
- 13 papers were published.

PANCREATIC RESEARCH GROUP

Group Leader: Professor Minoti Apte

The main research interests of the Pancreatic Research Group are related to elucidating the mechanisms by which alcohol abuse damages the pancreas leading to chronic inflammation and scarring of the gland (chronic

pancreatitis) and the role of scar tissue in progression of pancreatic cancer.

The Pancreatic Research Group, led by Professor Minoti Apte, were the first in the world to develop a method to isolate and culture the cell type responsible for producing pancreatic fibrosis (scarring) – these cells are known as pancreatic stellate cells (PSCs). Thus, they are internationally acknowledged for their pioneering work on the role of PSCs in chronic pancreatitis and pancreatic cancer.

Our current focus is to determine how PSCs influence scar formation in pancreatitis induced by alcohol abuse and to perform genetic studies on humans to determine why some heavy drinkers are more susceptible to developing pancreatitis than others.

In terms of pancreatic cancer, we have shown that PSCs play a critical role in supporting cancer cell growth and spread (metastasis). We are now focussing on unravelling the cross talk that exists between PSCs and pancreatic cancer cells, so as to identify cellular pathways that can be targeted by treatment to interrupt such cross-talk and prevent/retard cancer progression.

Research Highlights

- Professor Minoti Apte was invited to seven international and six national lectures to major conferences and institutions.
- Dr Susan Yang successfully completed her Masters by Research Degree.
- The Unit received an \$250,000 equipment grant from the Australian Research Council to assist their studies into accessing the third dimension in scanning electron microscopy for rapid high resolution tomography of large samples.



- Evidence that pancreatic injury in alcohol-fed rats challenged with repeated doses of endotoxin (lipopolysaccharide, LPS) is mediated via the LPS receptor TLR4.
- Evidence from in vivo and in vitro studies that targeting hepatocyte growth factor can inhibit local growth and distant spread of pancreatic cancer by inhibiting cancer cell proliferation, migration and angiogenesis.
- Evidence that expression of genes regulating several key cellular pathways in pancreatic stellate cells is significantly influenced by the microenvironment – i.e. differential regulation of numerous genes is observed between PSCs cultured on plastic, matrigel (basement membrane like compound) and collagen (resembling fibrotic matrix).

The group's research addresses some of the major psychosocial dimensions of cancer, including:

- Understanding the unmet needs and responses of patients, their families and caregivers to cancer at all stages of the disease.
- Determining the influence of the content and process of communication between the health care team and the patient and family on coping, treatment compliance and psychosocial outcomes.
- Identifying the psychological, behavioural and social factors which may influence the disease process, including the impact of cultural, language and socioeconomic differences.
- Developing and testing strategies that can be implemented within health services to minimise the negative impact of cancer.

PSYCHO-ONCOLOGY RESEARCH GROUP

Group Leader: Professor Afaf Girgis

The Psycho-Oncology Research Group investigates the psychological, social and behavioural aspects of cancer, from the time of a cancer diagnosis until end of life. Our psycho-oncology research program is translational in its focus, in that our priority research areas are informed by the challenges faced by those providing and receiving cancer care; we apply the most stringent research methods to develop a strong evidence base to inform best practice; engaging early with key stakeholders and policy makers to maximise evidence-informed cancer care.





Research Highlights

- Completed several landmark projects in the field which have attracted international attention, including Australia's first longitudinal study examining the impact of cancer on the partners and caregivers of cancer survivors of the top eight incident cancers in Australia, over the first five years post-diagnosis.
- Disseminated research findings at national and international conferences and scientific publications with findings translated into practice e.g. cancer organisations using research findings in the planning of patient education resources; a Consumer Toolkit for people with advanced cancer is now available on the Care search website.
- Developed the first self-directed coping skills intervention for couples facing cancer, called Coping-Together. This will be tested in a randomised controlled trial, with 4-year NHMRC funding to the tune of \$718k to commence in 2012.
- The group successfully received in excess of \$855k for its various cancer research programs and projects for the year.

TRANSLATIONAL CANCER RESEARCH

Group Leader: Professor Paul De Souza

The Translational Cancer Research Unit has many interests within the broad range of cancer research, but the groups interests can be grouped as "practical cancer research" that is relevant to the patient. Drug development, drug and activity-based screening, mechanisms of action of therapeutic agents in cancer, signal transduction, cell biology, pharmacology, pharmacokinetics, biomarkers,

novel target discovery, novel therapeutics, and translation into the clinic, Phase I and Phase II trials are some of the interests from the group.

The groups interests extend to identifying new targets and treatments for various types of cancer and trying to get them into the clinic as soon as possible. This often involves collaborative research with oncologists, pharmacologists, drug companies, and universities, depending on their expertise in assisting the group get a new treatment in Phase 1 trials (the first types of clinical trials testing a new drug).

The group has special interests in prostate cancer, kidney cancer, bowel cancer, and brain cancer since these are difficult to treat and pose special problems for patients who suffer them.

Research Highlights

- Almost \$1.8 million was received from the Cancer Institute NSW in order of establishing this group. The program aims to encourage hubs of academic and clinical leaders with both substantial cancer treatment facilities and meritorious programs in relevant research disciplines to integrate into interdisciplinary and translational enterprises focusing on cancer control.
- Funding to the tune of \$450k was received from the Prostate Cancer Foundation of Australia for the groups work into the Translational and Pharmacokinetic Study of a Novel, Orally-Active, Targeted Treatment Measures for Hormone Refractory Prostate Cancer.
- Supervision of four PhD students.



Early Years

STREAM LEADER: A/PROFESSOR JOHN EASTWOOD



Early Years research refers to health and medical studies on our most important citizens, our young. The stream's research focus is to advance the understanding of early developmental origins of health and disease and to investigate the importance of the early years in determining a child's life-course.

The Early Years Stream is a dedicated multidisciplinary collaboration among perinatal, paediatric and child health clinical and community health researchers in South Western Sydney, including the Department of Community Paediatrics, Centre for Health Equity Training Research and Evaluation (CHETRE), Cochrane Prognosis Methods Group, Allied Health, Feto-Maternal Unit, Infant, Child and Adolescent Mental Health, Karitane, Neonatal Intensive Care Unit, Research, Evaluation, Monitoring and Surveillance (REMS), and the Simpson Centre. The collaboration is continually expanding and establishing links with other child-focused research groups.

Research targeted at addressing inequities that predispose particular children to having a poorer health status is another important focus for this stream. This is particularly important in the South West of Sydney as there are significant populations with relative socio-economic disadvantage and large migrant, refugee, and non-English speaking populations, as well as a small but significantly disadvantaged Aboriginal population. Clinicians have noted a growing increase in presentations of children from these sub-groups with health and developmental concerns. Early detection, prevention and working out prognosis are therefore crucial for this population. The researchers within this stream are working towards improving the outcomes of children, particularly those residing in South Western Sydney, and to use the research outcomes to deliver improved health services to these children and their families.

The overall goal is to translate research into clinical practice. This stream is committed to supporting clinicians to apply evidence based principles in clinical practice through conducting systematic reviews of diagnosis, treatment and prognosis. The stream fosters research that links health care data with research data, and synthesising the evidence base into a form that illustrates to clinicians, service providers and policy makers, the importance of developing strategies that maximise children's wellbeing and health outcomes.



EARLY YEARS RESEARCH GROUP (EYRG)

Group Leader: A/ Professor John Eastwood

Members of the Early Years Research Group have been actively focused on advancing the understanding of early developmental origins of health and disease and translating their research outcomes into improved clinical practice.

The primary objective of the EYRG is to strengthen collaborative multidisciplinary early years research amongst the perinatal, paediatric and child health researchers focusing on the increasing evidence that adverse events and circumstances during pregnancy and early childhood can have long-term negative physical and mental health effects throughout one's life.

The importance of the early years in determining a child's life-course is at the heart of the Group's interests and the overall goal is to translate research into clinical practice. The EYRG aims to achieve this by fostering research that links healthcare data with research data, and synthesising the evidence base into a form that illustrates to clinicians, service providers and policy makers, the importance of developing strategies that maximise children's wellbeing and health outcomes.

A secondary objective of the EYRG is to improve research capacity, productivity and quality through the training and mentoring of early career researchers. An EYRG Research Coordinator has been appointed to facilitate:

- Increasing the number of people engaged in child-focused research.
- Improving the productivity of research teams by encouraging the progression of research ideas into research projects and supporting research activities such as assisting researchers with grant and ethics applications.
- Advising where/who to go to for research project design and statistical analysis support.
- Assisting researchers with disseminating research.

Research Highlights

- The number of research and/or clinical quality improvement projects progressing with an early years focus has significantly increased due to mentorship with project design, ethics applications, project methodology, data analysis and dissemination.
- Research meetings are held every two months and serve as a platform for early years research to be discussed and potential new research ideas/collaborations be identified.
- A further number of collaborative research projects have been presented within the EYRG, including a data linkage project of a cohort in both South West Sydney Local Health Districts and Sydney Local Health District reviewing maternal and child health and development associations and outcomes.
- A series of training workshops have been initiated for early career researchers focusing on project design, data analysis and dissemination.



Population Health, Primary Care & Health Services

STREAM LEADER: PROFESSOR BIN JALALUDIN



Population health, primary care and health services research aims to change policy and practice. The Population Health, Primary Care and Health Services Research Stream (PHPCHSRS) comprises of a range of research groups that engage primarily (but not exclusively) in non-clinical research. Research groups that comprise PHPCHSRS are: Aged Care Unit, Centre for Applied Nursing Research (CANR), Centre for Health Equity Training Research and Evaluation (CHETRE), Centre for Research, Evidence Management and Surveillance (REMS), General Practice Unit (GPU) and The Simpson Centre.

The research centres listed above engage in a range of research ranging from observational and interventional research to health services research, and have been very successful in obtaining competitive grants and in actively publishing their research. In the past five years (2007-2011), the research centres within PHPCHSRS have attracted 65 competitive grants worth \$41 million, and published 360 scientific papers in peer-reviewed journals. South Western Sydney Local Health District

has a long and proud history of high quality population health, primary care and health services research. The establishment of PHPCHSRS within the Ingham Institute will help build critical mass, foster excellence and provide an effective mechanism to support collaborative research.

AGED CARE UNIT

Group Leader: Dr David Conforti and Dr Chris Shanley

With Australia's ageing population, much research is being conducted into the evaluation and management of acutely unwell older patients in the Emergency Department and in-patient settings, long term outcomes of service provision, dementia care in CALD communities, advance care planning and end-of-life care.

Research Highlights

- Funded by the NHMRC, studies into family care giving for culturally and linguistically diverse people living with dementia: perspectives of the family carers and health service providers.
- Dr Chris Shanley presented his work associated with developing a system of advance care planning across a large metropolitan health service: the Sydney South West My Wishes Program at the internationally attended conference, VII IAGG European Congress "Healthy and Active Ageing for All" – II.

- Published in the Journal of Clinical Nursing the groups work into making decisions about transferring nursing home residents to hospital: highlighting the roles of advance care planning and support from local hospital and community health services.

CENTRE FOR APPLIED NURSING RESEARCH (CANR)



Group Leader: Professor Maree Johnson

The Centre for Applied Nursing Research is a leading nursing research facility providing research and development service for nursing and midwifery associates which generates knowledge through research, transferring knowledge generate through research into practice, promote the use of research, evaluate the uptake and impact of research in the clinical setting and collaborate with, and supports clinicians to undertake research.

The three main research programs of the unit relate to patient safety, women's and child health and cross-cultural health and health literacy.

The Unit is dedicated to supporting research higher degree students from the University of Western Sydney. CANR undertakes approximately 20-25 research projects per annum through competitive and non-competitive sources of funding.

Research Highlights

- Published four book chapters in various publications for studies related to pathways to evidence based practice, undertaking systematic review and research methods in nursing and midwifery.

- Developed Australia's first online oral health education program for midwives. The program has been endorsed by the Australian College of Midwives as a Continuing Professional Development (CPD) Program offering 16 CPD points to all midwives across Australia.
- Development and implementation of guidelines and policy for improving oral nutrition of inpatients. Pilot study being evaluated currently. This policy is currently being integrated with policy from the Agency of Clinical Innovation.
- Development and implementation of guidelines and policy to improve nursing notes in patient health care records. Ward-based writing coach project implemented and evaluated.
- Development of and implementation falls in-patient brochure being distributed in both Sydney LHD and SWS LHD to all patients in five languages and being promulgated by the Clinical Excellence Commission.
- Development and pilot testing of an e-learning education program for nurses on falls risk screening and falls prevention interventions. For use by the Clinical Excellence Commission.

CENTRE FOR HEALTH EQUITY TRAINING RESEARCH & EVALUATION (CHETRE)

Group Leader: A/Professor Lynn Kemp

Headed by A/Professor Lynn Kemp, CHETRE's international standing on the research map, is a contributor of the groups focus on description and measurement of health inequalities and health equity, development and evaluation of policies, programs and other actions that aim to achieve health equity, and developing the capacity of the health system to more effectively address health equity through policy and program development.

For 2011, CHETRE work includes projects in the areas of community and primary health care service development, disadvantaged communities and populations, early childhood, Aboriginal health, unemployment, and Health Impact Assessment and healthy public policy.

CHETRE works closely with state government, including the NSW Ministry of Health, health services and local government and non-government organisations.

The Centre for Health Equity Training Research and Evaluation (CHETRE) has continued to have consistent success in attracting grants and in publishing the results of their research. Perhaps most importantly CHETRE has made significant contributions to informing health policy and especially the Keep Them Safe policy for children, and practice in nurse home visiting and health impact assessment.

CHETRE's seminal work in Aboriginal health continues. Following on from the success of the Gudaga cohort study of babies born at Campbelltown hospital, a \$2.4m grant was received from the NHMRC to conduct the "Bulundidi Gudaga" project which is a trial of early childhood home visiting for Aboriginal mothers.

The Centre's work on Health Impact Assessment has been recognised by an award from the International Association for Impact Assessment. Building on the success of the Maternal Early Childhood Sustained Nurse Home-visiting (MECSH) trial, Dr Lynn Kemp was awarded a travel fellowship and appointment at Kings College London as a Visiting Senior Research Fellow to explore the potential for implementation of MECSH in England.

CHETRE was further successful in being awarded an infrastructure grant from the Ingham Institute to support their work in building capacity in primary and community health research.

Research Highlights

- Contract to implement the Maternal Early Childhood Sustained Nurse Home-visiting (MECSH) program in several counties in England, involving both international research collaboration and substantial revenue over three years as the trial is rolled out.
- Final negotiations for an Australian Research Alliance for Children and Youth (ARACY)-funded national extension of the MECSH program to improve the developmental outcomes of infants at significant risk of harm.

- Continuing competitive grant and publication success for the seminal "Gudaga" program of research for Aboriginal children and their families.
- Continuing industry engagement and funding to support intersectoral approaches to improving the outcomes of local disadvantaged populations through, for example, evidence to inform Public Private Partnerships in social housing regeneration and local government planning and establishing a community-focused research and training organisation.
- Product development, licensing & commercialisation of health program innovations (e.g. MECSH & Walk the Talk for the unemployed).

CENTRE FOR RESEARCH EVIDENCE MANAGEMENT & SURVEILLANCE (REMS)

Group Leader: Professor Bin Jalaludin

Established in 2004, the Centre for Research, Evidence Management and Surveillance team comprises of epidemiologists and biostatisticians to conduct research, evaluate and surveillance studies into population health, promote and evidence-based approach to population health programs and support graduate learning in population health and epidemiology.

For 2011, the groups research study areas included environmental health and air pollution epidemiology, social epidemiology, neighbourhoods and health, health services for diabetes and stroke, national disease areas and in the use of spatial methods and linked data for epidemiological research.

Internationally renowned, the group fosters strong collaborations and partnerships with the Local Health District, universities and key government agencies such as the NSW Ministry for Health and NSW Office of Environment and Heritage.

Research Highlights

- An international collaboration investigating the effects of ambient air pollution on pregnancy outcomes involves 14 research and academic institutions from nine countries, in the United States, Europe, South America, Asia, Australia and the United Kingdom.
- REMS program of air pollution and climate research involves investigating the effects of outdoor air pollution on birth defects, effects of bushfires on mortality and hospital admission, the effects of heatwaves on hospital admissions and emergency department visits and estimating the health benefits from reducing outdoor air pollution.
- Our health services research focuses on patterns of care and outcomes for subarachnoid haemorrhage and stroke, and investigating best practice primary care for older Australians with diabetes and investigating, with both these projects using record linkage.
- REMS is also continuing to expand its research capabilities in the built environment and neighbourhoods with a particular interest in accessibility to healthy foods and in food security.
- Professors Marks and Jalaludin were investigators in an ARC funded national study investigating the impact of outdoor air pollution on children lung health. The study was completed in late 2011 and the final report was released on 11 September 2012 by the COAG Standing Council on Environment and Water (a committee representing Environment Ministers) (report available at www.scew.gov.au). The results from this study are being used to inform the current review of the national air quality standards. The research also received funding from the former Environment Protection and Heritage Council.
- Professors Marks and Jalaludin (amongst others) are lead investigators in an NHMRC funded Centre of Research Excellence for air pollution.

Air Quality and Health Research and Evaluation” (CAR). There are nine chief investigators from seven universities and three states. We received \$2.4 million over five years (2012-2016). The focus of CAR will be around capacity building in air pollution research and translating air pollution research findings into policy and practice.

GENERAL PRACTICE UNIT

Group Leader: Professor Siaw-Teng Liaw

The academic GP Unit is an integral part of the University of New South Wales School of Public Health and Community Medicine (SPHCM) and Centre for Primary Health Care and Equity (CPHCE) as well as the Division of Complex Primary Care and General Practice in the South Western Sydney Local Health District (SWSLHD).

Our research and evaluation activities are focused on systematic and integrated care of high prevalence chronic illness, health systems research, preventive interventions on chronic disease risk factors and development of research capacity in primary and integrated care. Examples are projects on chronic disease management with a focus on Diabetes, CVD and Asthma/COPD; multidisciplinary primary care with a focus on the practice nurse; multidisciplinary integrated care with a focus on the interface between primary and acute care; Aboriginal health with a focus on culturally and clinically appropriate care in general practice and the interface with Aboriginal Community Controlled Organisations and Health Services; and the quality and use of routinely collected electronic data in general practice and community-based specialist services for research and evaluation in the form of the electronic Practice Based Research Network (ePBRN).

The GP Unit also hosts the University of New South Wales Primary Health Care Research Network (PHReNet), established with funding from the Primary Care Research Capacity Building Program. The network has a membership of more than 50 GPs (PHReNet-GP) and approximately 200 other health researchers from community and allied health and staff of Divisions of General Practice. The ePBRN project was established to take this network infrastructure to the next level.

Research Highlights

- Cluster randomised trial of early intervention for Chronic Obstructive Pulmonary Disease by practice nurse - GP teams.
- The group continues internationally renowned studies into bettering systems of care for chronic patient sufferers, with further publications on the way.
- Established equipment, infrastructure and protocols for the electronic Practice Based Research Network (ePBRN). This network will enhance the existing PHReNet by (1) including area health services units based in the community and hospitals and (2) adding the ability to extract and link data from electronic information systems in the participating practices and health service units.
- This network of general practices and health services units, and their information systems will enable the efficient support of integrated health services research, clinical translational research, clinical trials, cohort studies, association studies and longitudinal studies in the context of high prevalence chronic diseases, such as Type 2 Diabetes, Chronic Respiratory Disease and Cancer, and acute health problems, such as infectious diseases. It will be particularly useful in longitudinal follow-up studies to examine clinical course and prognosis of chronic disease and cancers.

THE SIMPSON CENTRE FOR HEALTH SERVICE RESEARCH

Group Leader: Professor Ken Hillman



The Simpson Centre for Health Services Research conducts world-class research in health system research and uses this research to improve health systems. The Centre uses systems sciences and translational approaches to provide innovative, evidence-based solutions to specified health care delivery problems.

The Centre concentrates on its strengths of conducting research that is relevant to health care improvement by continuing its past strategy of a strong collaboration between clinicians and researchers by developing and evaluating systems which operate across the traditional silo-based health service delivery; collaborating with other researchers in order to enhance the quality and relevance of research, e.g. health economists, social scientists and technology related research; continuing to play an important role national and internationally in the area of patient safety research.

Led by Professor Hillman, the groups four main areas of research include:

- *The Rollout of the Medical Emergency Team (MET) concept across NSW, Australia and overseas:* The Centre is playing a major role in the implementation of the MET system into every hospital in NSW in the first instance and then across Australia. The Centre has received two NHMRC grants, one to look at the impact of the MET on the reduction of hospital mortality and adverse events in NSW and the other to evaluate the State-wide system.
- *Emergency Medicine Access Block and Emergency Department (ED) Overcrowding:* Together with the Australian College for Emergency Medicine the Centre is looking at access block and ED overcrowding. The Centre has received a NHMRC Partnership Grant and is leading a group of partners looking at the validation and impact of the 4 hour rule in the ED.
- *Disparity of Health Status and Health Services Utilisation between Indigenous, non-English Speaking Background and English-Speaking Background Children in Australia:* The Centre is exploring the health inequality and inequity of Australian children particularly on the disparity of health status and access to health care among different minority groups and the gaps of health and health services utilisation between Indigenous and non-Indigenous Australian children.



- *End-of-Life:* Through the Centre's work with the establishment of a system to identify and care for seriously ill patients (the MET), it has found that the number of patients being admitted to hospital and intensive care for the last few days of life is increasing and often the MET acts as the surrogate dying team. Many of these patients are at their natural end-of-life (EOL) with no or little in the way of treatable and reversible illness. There are potential gains by managing dying more appropriately in hospitals, both in terms of financial savings but more importantly in terms of reduced patient suffering and increased satisfaction for both patients and their carers.

Research Highlights

- Professor Ken Hillman published as co-author "The Textbook of Rapid Response Systems: Concept and Implementation: 2011".
- Publication of six book chapters with a focus on improving Intensive Care Unit practices, access block and emergency department overcrowding and evaluating complex system interventions.
- Awarded a NHMRC grant endeavoured to evaluate the impact of the medical emergency on the reduction on hospital mortality and other adverse events. \$724k for three years has been committed.

Internal Medicine

STREAM LEADER: PROFESSOR IAIN GOSBELL



This stream of research was refreshed in 2011 as a large number of groups came into association to form the Internal Medicine stream. Headed by Professor Iain Gosbell, the streams research interests are broad and include the works of the Antibiotic Resistance and Mobile Elements group, Arthritis Unit,

Cardiology, Respiratory Medicine and The Heart and Brain Collaboration.

The Antibiotic Resistance and Mobile Elements Group (ARMEG) is working on a number of collaborative research projects, with a major interest to understanding how Golden Staph forms and analysing better treatments for those affected by the disease.

Arthritis, including Rheumatology conditions, account for high levels of disability in the community. For this reason, research into the disease and better treatment options are at the pivotal of the group's core focus.

Although considerable gains have been made to reduce cardiovascular mortality and morbidity over the years, the Cardiology research unit is pressing ahead with its clinical research trials relating to diagnosis and management of Heart Disease.

Respiratory Medicine is making significant progress with its air pollution studies and receiving further funding from the NHMRC. The group also actively participates in clinical research into airway diseases, sleep and interventional bronchoscopy.

Stroke prevention is one of the interests of the Heart and Brain Collaboration. The group also was first group in Australia to study and report on the incidence and prevalence rates of Myasthenia Gravis for Australia.

Together, the Internal Medicine stream published 63 scientific papers in national and international journals such as The Lancet, European Journal of Clinical Microbiology and Infectious Diseases and European Heart Journal. Researchers within this stream received just over \$3 million in research income for the 2011 year.

ANTIBIOTIC RESISTANCE AND MOBILE ELEMENTS GROUP (ARMEG), SCHOOL OF MEDICINE, UWS, AND INGHAM INSTITUTE FOR APPLIED MEDICAL

Group Leader: Professor Iain Gosbell & Dr Slade Jensen

Strains of methicillin-resistant *Staphylococcus aureus* (MRSA) are a major cause of hospital-acquired infections around the world and are an emerging cause of infections in the wider community. In an attempt to address this global healthcare issue, the laboratory's research program focuses predominantly on various aspects of this important human pathogen and current research areas include:

- MRSA ST239 genome evolution (Liverpool Hospital).
- Staphylococcal multi resistance plasmids.
- Community MRSA in South West Sydney.
- Contribution of Biofilms to hospital MRO reservoirs.
- Mechanisms of antibiotic resistance in clinically-important bacteria.
- Infection prevention and control of multi resistant bacteria.

2011 was proven to be a successful year with a number of accomplishments within the groups' reach. The group successfully established a new laboratory within the Ingham Institute, securing a great deal of funds to secure a number of pieces of research equipment.

The groups first higher degree student, A/Prof Sebastian van Hal, has been pivotal in developing the linkages with the overseas and interstate groups, and so far has published several papers in high impact factor journals concerning his research of vancomycin resistance in MRSA.



Research Highlights

- Established a partnership with the Wellcome Trust Sanger Institute (WTSI) to sequence the genome of all MRSA ST239 blood culture isolates from Liverpool Hospital (1997-2008). This project is being funded by both WTSI and UWS and aims to identify bacterial genetic factors associated with clinical outcome.
- Established a collaboration with Prof Matt Cooper, Dr Jason Steen, and Prof Sean Grimmond (Institute for Molecular Bioscience, University of Queensland) to examine the sequence data generated by the WTSI partnership. In addition, this collaboration also examines mechanisms of antibiotic resistance in MRSA and important Gram-negative bacilli involved in nosocomial outbreaks.
- Established collaboration with Prof Karen Vickery and Prof Anand Deva (Australian School of Advanced Medicine, Macquarie University) to examine the contribution of biofilms in ICU to spread of multi-resistant bacteria.
- Determined that MRSA ST239 strain replacement in Liverpool Hospital is driven by carriage of the mobile DNA element ACME (Arginine Catabolic Mobile Element).
- Showed that despite cleaning hospital surfaces with disinfectants (“terminal cleaning”) biofilms containing viable multi resistant bacteria were not removed.
- Dr Slade Jensen was appointed the Microbiology Editor for the Journal of Clinical Pathology.

ARTHRITIS RESEARCH UNIT

Group Leader: Professor Patrick McNeil

Led by Professor Patrick McNeil, the Arthritis Research Unit explores how common forms of arthritis and autoimmune diseases occur and seeks new or improved approaches to manage our patients with these conditions. The group’s research spans from basic inflammation mechanisms at the cell and molecule level, to how complex organisations such as hospitals can best manage the care of patients living with chronic diseases such as arthritis.

Members of the Arthritis Research Unit are also involved in educational research stemming from design and evaluation of the University of New South Wales’ innovative new medical student education program.

Research Highlights

- Discovered that tryptase, a protein released by inflammation cells triggers cartilage damage in arthritis by activating matrix metalloprotease enzymes – this work was presented at the international American College of Rheumatology conference in Chicago.
- Received more than \$300,000 in equipment and infrastructure grants to support arthritis research at the Ingham Institute.
- Published its work into Acute Gout Management During Hospitalisation in the acclaimed Internal Medicine Journal and International Journal of Rheumatic Diseases.



CARDIOLOGY UNIT

Group Leader: Professor John French

The importance of cardiology research is well respected by the Cardiology unit. Led by Professor French the group's research portfolio and key strengths extend to include studies into non-invasive imaging research, predominantly in echocardiography, as well as clinical trials, mechanistic and outcomes research in the Acute Coronary Syndromes (ACS) / Percutaneous Coronary Intervention (PCI) fields.

The Cardiology Unit is heavily involved in clinical trials research. Many local, international and multicentre trials (>15) are currently be undertaken. Cardiovascular diseases, and particular clinical manifestations of coronary heart disease (CHD), are the major contributors to morbidity and increased mortality in the ethnically and culturally diverse population of South Western Sydney, where its prevalence is increased and CHD is the leading cause of death. Advances in pharmacologic and interventional treatments and recent developments in cardiac imaging can facilitate enhancements in patient care.

A \$200K research grant from the Ingham Institute for the CIRC-LATION study was well received by the group. These thematic group of studies focus on new aspects and modalities in non-invasive imaging of the heart, as well as invasive imaging and interventions mainly in patients with recent heart attacks. Highly accurate information can

be obtained on the status of patients with heart attacks, heart failure and arrhythmias in terms of early diagnosis, identification of aetiologies, risk stratification, and possible management strategies including during late follow up.

Research Highlights

- Professor French chaired from 2007-11 a group of cardiologists committed to clinical research and excellence in both ACS management and PCI called ACROSS. The initial trial of this group is a randomized trial in Rescue PCI; Prof French has received US \$400K from the Medicines Company to undertake this investigator-initiated study.
- Professor French was appointed for 3 years (2011-14) as Chair of the clinical trials council of the CSANZ, and has a major role in promoting clinical trials in Australia.
- The local screening registry (>1000 patients) for the FREEDOM clinical trial (main results to be presented in November 2012) has led to two first author publications for our research officer Dr Leia Hee.
- Dr Hee has been awarded a prestigious scholarship from the Ingham Institute to undertake a Masters in Clinical Trials at Sydney University in 2012-13.



HEART AND BRAIN COLLABORATION

Group Leader: Dr Melina Gattellari

Heart and Brain research is the core focus of the heart and brain / neuroscience collaboration led by Dr Melina Gattellari. The group recently completed one of the world's largest national studies of myasthenia gravis, which will be published in the European Journal of Neurology. The heart and brain collaboration is the leading group to report the first incidence and prevalence rates of Myasthenia Gravis for Australia. Studies showed this first Australian epidemiological study of symptomatic Myasthenia Gravis is one of the largest population based studies ever reported and supports higher incidence rates for Myasthenia Gravis.

Research Highlights

- The PRISM study (a Program of Research Informing Stroke Management) continues to examine the long-term impact of stroke units, the management and outcomes of intracerebral haemorrhage in NSW and a comparison of outcomes between carotid endarterectomy and endovascular carotid stenting. The PRISM study utilises linked administrative health data, including hospital admissions data, emergency department presentations data, and cause and fact of death data. Output from the PRISM study includes a recent article published in the American Heart Association (AHA) journal Stroke reporting relative survival in over 20,000 patients hospitalised for TIA. The paper was selected by editors for an AHA press release and was reported in the US (eg ABC, network), UK (Daily Telegraph), Canada (CBS.Ca), India and elsewhere. Experts stated the study “put TIA on the map” (Nehal Mehta, USA today), and described it as “a welcome contribution,” (James R. Brorson, News@JAMA), robust”, and “providing very important prognostic information not only to patients but also healthcare providers.” (Jose Biller, Medscape).
- Associate Professor John Worthington became a recent reviewer for the British Medical Journal, Stroke, Journal of Neurology, Neurosurgery and Psychiatry, Cerebrovascular Diseases and the Journal of Clinical Neurosciences.
- A/Prof Worthington recently co-authored two invited Editorials for the American Heart Association (AHA) journal, Stroke, one as corresponding author and one as first author.
- A/Prof Worthington provided an invited opinion piece for MJA Insight (28th November 2011) on anticoagulation and evidence-based practice.



RESPIRATORY

Group Leader: Professor Guy Marks

Clinical and public health aspects of tuberculosis, asthma and COPD, air pollution health effects and epidemiological research methods are major parts of the research undertaken by the Respiratory group.

More importantly, the groups research focuses in public health approaches to understanding and managing common respiratory health problems in Australia and globally. The group is also extensively engaged in clinical research in airway diseases, sleep and interventional bronchoscopy.

Heavily funded by the NHMRC and the Australian Research Council, the group is working on a number of research grants having published 18 papers in internationally renowned journals such as The Lancet.

Research Highlights

- Professor Guy Marks studies into the primary prevention of asthma were published in the J Allergy Clin Immunology.
- In excess of \$1.7 million was received for various research projects and programs led by Professor Marks.
- Professor Guy Marks was appointed Editor - in - Chief of the International Journal of Tuberculosis and Lung Disease.
- The effects of nano and ultrafine particles from traffic emissions on children's health is one of the group's studies.
- Lane Cove Tunnel Health Impact Assessment project led by Professor Guy Marks has received in excess of \$1.2m in project funding.

Injury

STREAM LEADER: PROFESSOR IAN HARRIS



Led by internationally recognised researcher in the field of Orthopaedics, Professor Ian Harris, this stream has made an impressive mark on the research map, both on national and international levels. A large number of research projects and clinical trials with the focus of assessing and addressing the common issues associated with injury management and how services could be improved to better patient care.

The Brain Injury Rehabilitation Unit had an impressive research year with a large number of accomplishments and awards. Dr Leanne Hassett was awarded the best abstract and platform

presentation at the 2011 World Congress of Physical Therapy, Amsterdam, Netherlands for studies into circuit class therapy. This research suggests that circuit class therapy can provide sufficient dosage for a fitness training effect for adults with traumatic brain injury.

Translational research has been the forefront of the Brain Injury Rehabilitation Unit. Dr Grahame Simpson was the leading investigator of the Strength 2 Strength: Building resilience among families supporting relatives with traumatic injury. Social workers from seven rehabilitation services in Sydney developed the program as there was limited research into resilience among family members supporting relatives who have sustained traumatic injury. Early studies in the field identified qualities associated with resistance. Later studies focused on the process of resilient adaptation to challenging life circumstances. Implicit in this research and the foundation of this program is the notion that resilience is a dynamic set of adaptive skills that anyone can acquire. Drawing upon material identified from a literature review, an empirical study and focus groups, the project working group developed a five session program called “Strength 2 Strength” (S2S) as well as an abbreviated five hour version which can be implemented as a one day workshop or telephone group. It offers an important complement to existing family support programs and enables social workers and other health professionals to incorporate this program into their clinical practice.

The study discovered that a number of key components associated with building resilience included making meaning of the traumatic event; active coping; identifying personal strengths; developing a positive appraisal of challenging life circumstances; maintaining flexibility; remaining connected with social networks and mobilising resources.

The importance of Orthopaedic research is a reflection of Australia’s ageing society and the need for improved services of care. The areas of research interest for Professor Harris and his team of researchers relate to surgical outcomes, trauma and elective Orthopaedic and non-orthopaedic, predictors of patient satisfaction after surgery, psychosocial factors predicting outcome after injury and surgery, randomised trials of orthopaedic interventions, and aspects of clinical epidemiology, including quality and safety related to surgery.

Combined, research units received approximately \$3.7 million in research funding. Given the streams impressive funding wins, strong collaborations have been formed nationally and internationally as the centres continue to achieve translational research outcomes.



BRAIN INJURY REHABILITATION UNIT (BIRU)

Group Leader: Dr Grahame Simpson

The Brain Injury Rehabilitation Unit comprises Liverpool Hospitals Brain Injury Rehabilitation Unit research team and the NSW Agency for Clinical Innovation Brain Injury Rehabilitation Directorate. The group successfully runs a clinical research program with the broad mission of alleviating the consequences of traumatic brain injury and developing and implementing evidence-based models of care.

Research participants are adults and children, living both in metropolitan and rural settings, who have predominantly sustained a severe traumatic brain injury. The research conducted by this team is conducted in collaboration with international, national, state and local research partners undertaking treatment studies (multicentre randomised controlled trials, clinical controlled trials, single case experimental trials), instrument development/validation, health services evaluation and observational studies. This research team is currently involved in 36 projects at varying stages of completion, ranging from active data collection to writing up and dissemination. Key areas of research speciality include but are not limited to:

Suicide prevention and management of emotional distress after TBI: At the forefront of international research into suicide prevention including the conduct of prevalence studies, systematic reviews, guidelines development, and staff suicide prevention training. Also involved in treatment trials (RCTs) evaluating the efficacy of CBT to remediate chronic hopelessness and Acceptance and Commitment Therapy to treat more generalised psychological distress after TBI.

Cardiorespiratory fitness and physical activity after TBI: This stream of research involves validating and developing measures of cardiorespiratory fitness and physical activity in rehabilitation populations, and conducting clinical trials to investigate interventions to increase cardiorespiratory fitness and physical activity in this population, particularly sufferers of traumatic brain injury.

State wide health services projects: ACI Directorate leads statewide projects addressing clinician/consumer - identified areas of priority need. Recent and current studies have examined the state-wide prevalence of challenging behaviours after TBI; models of service delivery to indigenous and remote communities; a statewide model of case management; and examining new models of vocational rehabilitation for clients with TBI.

Carer research: Several studies into neuro-behavioural stressors associated with family distress and burden after a relative sustains a TBI as well as intervention studies investigating psycho-educational approaches to building family resilience.

Technology in Rehabilitation: Conducting systematic reviews and intervention studies into the application and efficacy of Smart Phone technology and I-pads in neuro-behavioural rehabilitation.

Research Highlights

- Team members are investigators in current funding of over \$4.5 million in project, infrastructure and fellowship grants.
- Published one edited volume, 2 chapters and 16 articles in peer reviewed journals.
- Dr Grahame Simpson was appointed Editorial Board to a leading international journal in rehabilitation (Journal of Head Trauma Rehabilitation) ranked 2/ 35 in Rehabilitation (ISI ranking).
- Dr Grahame Simpson appointed Assistant Editor Brain Impairment, National Specialty Journal.
- Dr Grahame Simpson elected Member for the United States National Institute of Neurological Disorders and Stroke Common Data elements working party (2011- 2012).

WHITLAM ORTHOPAEDIC RESEARCH CENTRE (WORC)



Group Leader: Professor Ian Harris

Clinical research specifically examining outcomes research in the fields of musculoskeletal injury

and elective orthopaedics is the core focus of the group. Alongside this, the group also engages in epidemiological research, more specifically, randomised trials, systematic reviews and population data studies in the field of Orthopaedics.

Research programs are designed to increase the knowledge base for clinical decision making in musculoskeletal medicine to allow improved patient care via better-informed management. To achieve this, the group endeavours to produce and disseminate such evidence to patients and practitioners.

In 2011, WORC hosted the inaugural Whitlam Research Symposium in September. The symposium is to become an annual event showcasing recent musculoskeletal research undertaken in Australia.

Further, WORC completed the largest Total Knee Replacement (TKR) rehabilitation study undertaken to date, randomising 249 participants to 1 of 3 8-week therapy programmes and follow-up the same for 1 year. It was a multicentre trial and formed a large part of Victoria Ko's PhD thesis.

Research Highlights

- 16 publications in peer-reviewed journals.
- Supervised five University of NSW ILP Students and three PhD students,
- Completed one multicentre randomised rehabilitation trial (October 2008 - August 2011).
- Continuation of 1 multicentre, Australia-wide randomised surgical trial (commenced October 2010).
- Continuation of 20 other clinical studies, excluding PhD projects.
- Given the groups international standing and reputation, an impressive 43 conference presentations were made; 25 Sydney/NSW, 12 Interstate and 6 International.

Mental Health & Brain Sciences

STREAM LEADER: PROFESSOR DERRICK SILOVE



Mental Health disease is on the rise and the need for much important research follows. In 2007, 45% of Australians aged 16-85 years (or 7.3 million people) had, at some point in their lifetime, experienced at least one of the selected mental disorders – anxiety, mood or substance use disorders.

Our Mental Health stream has been actively involved in a large number of national and international research grants and has formed many links with international mental health organisations and Institutions. Studies are being conducted in view of improving the overall health and welfare of mentally health affected patients.

Our work into Mental Health here at the Institute covers a broad range of research projects predominately: Schizophrenia, Refugee Health, Psychosis and Psychiatry Research. This area of research is renowned for its studies into significant mental health issues and how the disease may be better treated for those living with the disease.

Brain Science is an extension to the Mental Health services stream, with the group focusing its studies into neurodevelopmental and child psychiatric disorders as well as perinatal health from diverse perspectives covering aetiology, epidemiology, clinical intervention and outcomes. Under the leadership of Professor Valsamma Eapen, several research projects are under

way which are funded by ARC and NHMRC grants as well as through PhD and ILP student projects.

For 2011, combined Mental Health and Brain Sciences groups received in excess of \$2.5 million and published 46 scientific papers.

ACADEMIC UNIT OF CHILD PSYCHIATRY

Group Leader: Professor Valsamma Eapen

Headed by Professor Valsamma Eapen, the unit undertakes research in the areas of infant, child and adolescent mental health, in addition to providing support to evaluate clinical services.

Currently, research is being conducted on a number of childhood disorders including Autism Spectrum Disorder (ASD), Tourette Syndrome, Attention Deficit Hyperactivity Disorder (ADHD), anxiety, depression etc.

Specific research projects include Adult Separation Anxiety in pregnancy and the role of oxytocin, early intervention program in preschool children with ASD, genetic underpinnings and behavioural Intervention in Tourette Syndrome, role of genotypes in determining stimulant response in ADHD, Universal Developmental Surveillance program for identifying developmental disorders in the community etc.

There is also an ongoing program of research involving perinatal anxiety and depression as well as screening for infant emotional difficulties; assessment of emotional well-being of new parents including the perspectives of fathers.

Another area of focus is mental health morbidity in adolescents and specifically these include research on metabolic syndrome and related side effects of second generation antipsychotics, role of spirituality in mental health etc.



Research Highlights

- Awarded research partner for the Commonwealth Government funded Autism Specific Early Learning and Care Centre (ASELCC), one of the six centres in the country (one in each state), based at Liverpool, Sydney, established by KU Children's Services to provide early intervention program for preschool children with Autism Spectrum Disorders.
- First ever study showing the efficacy of Early Start Denver Model in a group setting for preschool children with Autism Spectrum Disorders.
- Dissemination of Comprehensive Behavioural Intervention for Tics (CBIT) in the Australian setting and exploration of its neurophysiological underpinnings.
- The unit received almost \$900k for its program grant 'Universal Surveillance and Early Identification of Developmental Disorders'.
- 15 papers were published, along with 11 conference presentation.

PSYCHIATRY RESEARCH AND TEACHING UNIT

Group Leader: Professor Derrick Silove

The Psychiatry Research and Teaching Unit has been keeping a busy research profile through its eleven member team under the directorship of Professor Derrick Silove. The PRTU is regarded nationally and internationally as a leading research and training centre in the interrelated fields of transcultural, refugee, post-conflict, posttraumatic and disaster mental health and the mental health of developing countries. In addition the PRTU has been involved in supporting student and registrar teaching, clinical service development,

information system management and international development work.

A large number of projects have been funded through NHMRC and Australian Research Council (ARC) project grants. Since its establishment, the PRTU (and the Centre for Population Mental Health Research) has attracted over 50 collaborative research and project grants exceeding \$20m and has published over 250 publications, many in high-ranking journals such as the Lancet and JAMA. The PRTU has been a partner on two five-year NHMRC Program Grants (2004-; 2010-2014) involving all the leading researchers in the country in the field of traumatic stress.

The centre currently holds three NHMRC grants (two for five years) and has recently been awarded a prestigious QE-II Fellowship and one five-year ARC grant.

Research Highlights

- Publications of work in prestigious mental health associated journals such as JAMA, and Lancet.
- Discovered the impact of Trauma on Anger in Post – Conflict Societies; First Description of Adult Separation Anxiety Disorder.
- The group received in excess of \$ 1 million from the Australian Research Council for its studies relating to enhancing mental health in Aboriginal children.
- Professor Silove presented the groups Psychosocial health studies at the Refugee Health Conference in Melbourne.



SCHIZOPHRENIA RESEARCH UNIT

Group Leader: A/Professor Philip Ward

The Schizophrenia Research Unit, part of the Division of Mental Health, conducts research into the causes of, and better treatments for patients suffering from Schizophrenia and other major mental disorders. The Unit's primary academic partner is the School of Psychiatry, UNSW, with major collaborative links with a range of other research groups, including the Macquarie Centre for Cognitive Science, (Macquarie University), the Priority Centre for Brain & Mental Health Research (University of Newcastle), Brain and Mind Research Institute, (University of Sydney) and the Laboratory for Neuro Imaging (University of California, Los Angeles).

A major focus has been recruitment of help-seeking young people for the 'Minds in Transition' study that aims to identify the neurocognitive correlates of transition to psychosis, supported by a five year NHMRC project grant.

Research Highlights

- The group successfully attained NHMRC funding to examine sound processing in the brains of patients with Schizophrenia.
- An ARC linkage grant was awarded to the group for its studies into examining the effects of oxytocin on a social cognition remediations program in patients with first episode psychosis.
- Professor Ward was invited to present as part of a symposium on physical health in first episode psychosis at the RANZCP annual meeting in Darwin.
- Ten papers were published in prestigious journals.
- The group studies into Event-Related Potential (ERP) Correlates of Inhibition in Bipolar Disorder were published in the NeuroReport.



Grants & Publications



Major Research Grants

Cancer

ARC. *Development of Innovative Radiation Detectors and Computational Techniques for Improving Quality of Life.* Rozenfeld, Zaider, Dzurak, Jameson, Lerch, Guatelli, Kuncik, Petasecca, Reinhard. 2010-2012, \$340,000.

ARC. *Accessing the Third Dimension in Scanning Electron Microscopy for Rapid, High Resolution Tomography of Large Samples.* Z Liu, S Perrier, YW Mai, PM Young, S Bandyopadhyay, FC Braet, RP Burford, GDHousley, MV Apte, P Thordarson. 2011, \$250,000.

Association for International Cancer Research. *Modulating Cholesterol-Dependent Lipid Rafts and Caveolin in Prostate Cancer Therapy.* Hill M, Nelson CC, Parton RG, Lee CS. 2011-2012, £208,076.

Cancer Australia and Beyondblue. *ProsCan for Life: A Multimodal Supportive Care Intervention for Men with Prostate Cancer.* Chambers SK, Newton R, Girgis A Lepore S, Mihalopoulos C, Gardiner RA, Galvao D, Occhipinti S. 2011, \$199,528.

Cancer Council NSW. *A Next Generation Detector for Radiotherapy Treatment Verification with Dual Capability for Simultaneous Imaging and Dosimetry.* Vial, P. Kuncic, Z, Greer, P. B, Baldock, C., Holloway, L., Barton, M. B. 2011-2013, \$336,125.

Cancer Council NSW Strategic Research Partnership Grant. *Genotype Guided Cancer Therapy (Genomic Theragnostics).* A Biankin, S Grimmond, M Apte, D Goldstein, S Clarke, J Kench, J Samra, V GebSKI, J Wu, S Mead, L Horvath. 2011-2015, \$1,500,000.

Cancer Institute NSW. *Last Days of Life Linkage Study: Patterns of Health Services use and experiences of Adult New South Wales Residents in the Year Prior to Death from Illness.* Ingham J, O'Connell D, Davidson P, Girgis A, Goldsbury D, Phillips J, Pigot M, Piz M, Wilkinson A. . 2011-2012, \$83,748.

Cancer Institute NSW. *Development of a Web-Based CME Program on 'Sun and Vitamin D' for General Practitioners.* Bonevski B, Girgis A, 2011, \$49,947.

Cancer Institute NSW. Move More for Life: A Tailored Physical Activity Program for Australian Breast Cancer Survivors. Girgis A, Short C, James E, Plotnikoff R. 2011, \$24,849.

Cancer Institute NSW. South Western Sydney Local Health District Clinical Trials Grant. Chantrill L, Asghari R, Harvey M, Agar M, Della Fiorentina S and De Souza P. 2012 – 2014. \$1,151,700.

Cancer Institute NSW. NSW Palliative Care Clinical trials Collaborative Research Group. Agar, M, Davidson, T, Clark, K, Clayton, J, Good, P, Lovell, M, Sanderson, C and Lobb, L.. 2009 – 2013 (one year extension granted). \$528, 507.

Cancer Institute NSW. Making Radiotherapy Safer and More Accurate: Developing Detector Technology for the Next Generation in Treatment Verification Systems. P Vial, Z Kunic, P Green, C Baldock, L Holloway, M Barton. 2010/2011, \$198,000

Cancer Institute NSW, Research Equipment Grant. 2010-2011, \$ 97,438.00.

Cancer Institute NSW. Seahorse Extracellular Flux (XF) Analyzer for the Multidisciplinary Sydney Cancer Research Core Facility. Richardson DR, Boyer M, Weninger W, Scolyer RA, Halliday G, Lee CS, Bi, Hambly T, Murray M, Lay P, Mason RS. 2011, \$315,000.

Cancer Institute NSW, Translational Cancer Research Unit Grant. South West Sydney Translational Cancer Unit Establishment Grant. de Souza P, Lee S, Bokey L, Barton M, Apte M, Agar M. 2011-2014, \$1.793,000.

Cancer Institute NSW. Investigation of Biomarkers for the Diagnosis and Prognosis of Common Cancers in the Community such as Breast, Colorectal, Prostate and Head and Neck Cancers. Lee CS. 2011-2012, \$227,921.

Cancer Institute NSW Registrar Advanced Trainee Programme Grant. Analysis for Differentially Expressed Proteins in Radiation Sensitive and Resistant Rectal Cancer Cells. 2010-2011, \$132,211.

Cancer Institute NSW Equipment Grant. GenomeLab GeXP Genetic Analysis System for the Multidisciplinary Sydney Cancer Gene Expression Facility. Richardson DR, Halliday G, Scolyer R, Clarke, S. Lee C S, Reichardt J, Murray M, Clarke C, Boyer M, Kefford ., Mason R, Murphy C, Gamble J, Lay P, Dong Q, Kumar N, Lyons G, Byrne S, Gurney H, Assinder S, Suryo Rahmanto Y, Jamie J, Vemulpad S, Davies M, Bao B, Haas N, Kench J., Kalinowski D, Lovejoy DB, Groundwater P, Hawkins C, de Souza P, Lane D, Zhang D, Moscato P, Lai D. , \$157,438.

Commonwealth Dept of Health and Ageing. Palliative Care Clinical Studies Collaborative. Randomised Control Trial of Oral Risperidone, Oral Haloperidol, and Oral Placebo with Rescue Subcutaneous Midazolam in the Management of Delirium in Palliative Care Inpatients. M Agar, G Caplan, M Hill, B Draper, D Rowett, C Sanderson, D Currow, T Shelby-James and P Lawlor, 2008-2014, \$ 365, 422.

Commonwealth Dept of Health and Ageing. End of Life Care: An Integrated Care Pathway for Advanced Dementia. Local Palliative Care Grant, round 5. Agar, M; Harlum, J; Gresham, M; Jones, C; Hansen, L; Noel, M and Moore, P.. 2010-2011, \$466, 308.

Commonwealth Dept of Health and Ageing. Improving the Welfare and End of Life Experience for Residents Families and Staff: A case Conferencing Approach for Older People Living with Advanced Dementia or Mental Illness. Agar, M; Currow, D; Davidson, P; Phillips, J; Mitchell, G; Lovell, M; and Clark K.. 2010-2011, \$ 509 494.

Commonwealth Dept of Health & Ageing,. *Review of Radiotherapy Optimal Utilisation Rates*. Barton M, Wong K, Jacob S, Thompson S, Shafiq J. 2011/2012, \$256,520.00.

Dust Diseases Board. *The Efficacy of Sustained Release Low Dose Morphine in the Subjective Sensation of Dyspnoea from Mesothelioma, Asbestosis or other Interstitial Lung Diseases*. Currow, D; Peters, M; Van Zandwijk; N; McDonald, C; Agar, M; Frith, P; Bowden, J; and Greene, A.. 2010 – 2012,\$ 481, 469.

Health and Health Services Research Fund. *A Longitudinal Study of Psychosocial Needs, Physical Symptom Distress, and Psychological Distress of Chinese Patients with Colorectal Cancer*. Lam W, Fielding R, Girgis A, Poon J, Fong D. 2011, \$24,441.

NHMRC. *A Double-Blind Randomised Controlled Multistate Study of Sertraline Compared with Placebo in People with Refractory Breathlessness*.. Currow, D; McDonald, C, Abernethy, A: Davidson, P; Doogue, M and Clark; K. Al: Agar, M; Firth, P. 2011 – 2013, \$585, 000.

NHMRC. *N-of-1 Trials of Pilocarpine vs Placebo from Dry Mouth in Palliative Care Patients*. Nikles, J; Hardy, J; Agar, M; Mitchell, G; Schluter, P; Vora, R. 2010 – 2012. \$298, 675

NHMRC. *Improving QOL at the End of Life: A Randomised Controlled Trial of a Doctor/Nurse/Patient Intervention*. P Butow, USyd, M Barton, UNSW / SSWAHS, D Adams, SSWAHS, J Pavlakis, J Clayton, M Tattersall, RPA, R Epstein, P Davidson, J Young. \$889,175 over three years.

NHMRC (Cancer Australia). *Modelling Multiple Radiotherapy Treatment Episodes for Benchmarking and Service Planning*. (Retreatment). MB Barton, UNSW / SSWAHS, MH Hudson, Macq Uni, G Delaney, UNSW / SSWAHS, \$503,415.00 over three years.

NHMRC. *Brm and Brg-1 Protect from Ultraviolet Radiation-Induced Skin and Ocular Damage*. Halliday G, Lyons G, Di Girolamo N, Moloney F, Lee CS.. 2010-2012, \$535,500.

NHMRC. *PyroMark Q96 ID System for the Multi-User Bosch Molecular Biology Facility (MBF) in the USYD Blackburn-Bosch Precinct*. Richardson DR, Stone J, Black J, King N, Mason RS, Hunt NH, Krill J, Murray M, Scolyer R, Halliday G, Vandenberg R, McMinn P, Chadban S, Byrne M, Ryan R, Dong QH, Lee CS, Bishop A, Haass N, Fraser S, Hambly B, Sharland A, Kalinowski D, Assinder S, Yu Y, Bao B, Ju YK, Lovejoy D, Buckland M, Lane D, dos Remedios C, Kovacevic Z, Sutherland G, Zhang DH, Morris B, Rahmanto YS, Murphy C.. 2011, \$74,000.

NHMRC. *A Novel Multipurpose Probe for In-Body Imaging and Radiation Dosimetry*. Rozenfeld, Bucci, Lerch, Jakubek, Meikle, Petasecca, Zaider. 2010-2012, \$523,000.

NHMRC. *X-Tream: A Realtime X-Ray Treatment Monitoring and Dosimetry System for Submillimetric Radiosurgery*. Lerch. 2011-2013, \$394,000.

NHMRC. *High Spatial Resolution Dosimetry for Radioactive Plaques used for Radiotherapy of Eye Lesions*. Rozenfeld, Kron, Conway, Lerch, Metcalfe, Carolan. 2010-2011, \$213,000.

NHMRC. *Alcoholic Chronic Pancreatitis: Induction, Progression and Reversal*.. MV Apte, JS Wilson, R Pirola. 2010-2012, \$609,500.

Prostate Cancer Foundation of Australia. *A Translational and Pharmacokinetic Study of a Novel, Orally-Active, Targeted Treatment for Hormone Refractory Prostate Cancer*. de Souza PL, Scott K, Graham G, Young P, Liauw W, Russell P. 2010 –2013, \$450,000 over three years.

Population Health, Primary Care & Health Services

ARC. *Planning and Building Healthy Communities: A Multidisciplinary Longitudinal Study of the Relationship Between the Built Environment and Human Health.* Thompson SM, Randolph W, Judd BH, Jalaludin B. 2010-2012, \$354,897.

Ingham Institute. *SSWAHS (WZ) Primary and Community Health Centre Research Unit (PCHRU).* E. Comino, K. Moore, S-T Liang, M. Johnson, L. Kemp. 2011-2012, \$200,000.

NHMRC. *A Cluster Randomised Trial Of Early Intervention for Chronic Obstructive Pulmonary Disease by Practice Nurse-GP Teams- GP teams.* Zwar N, Middleton S, Reddel H, Dennis S. Project grant 2011, \$221,325.

NHMRC Centre for Research Excellence grant in Informatics and E-Health. Coiera, Enrico, Glasziou Paul, Liaw, Siaw-Teng, Sintchenko Vitali , Runciman, William, Magrabi Farah , Luxan Blanca Gallego. 2011-2016. \$500,000 per year.

NHMRC. Safety of Clinical Software in General Practice. Magrabi, Dr Farah, Kidd, Dr Michael, Liaw Prof Siaw-Teng. 2011, \$ 88,250.

NHRMC. *Understanding the Impact of Social, Economic and Geographic Disadvantage on the Health of Australians in Mid to Later Life: Where are the Opportunities for Prevention?* .Bauman A, Redman S, Banks E, Harris M, Schofield D, McMichael A, Bailey S, Bambrick H, Beard J, Broom D, Byles J, Clark J, Jalaludin B. Jorm L, Nutbeam D, Rodgers B, Woodruff R, Woodward M. 2007-2011, \$1.8 million.

NHRMC. *Investigating Best Practice Primary Care for Older Australians with Diabetes using Record Linkage.* Comino E.J. Harris MF, Jorm LR, Haas MR, Jalaludin B. Flack JR, Rogers K, Powell Davies G. 2010-2012, \$524,750.

NHRMC. *Patterns of Care and Outcomes for Subarachnoid Haemorrhage: A Data Linkage Study.* Worthington J. Gattelari M. Goumas C. Jalaludin B. Jaeger M. 2011-2012, \$122,904.

NHRMC. *Universal Surveillance and Early Identification of Developmental Disorders.* Eapen V. Williams K, Jalaludin B. Dissanayake C, Woolfenden S. 2011-2013, \$680,598.

NHMRC. *Family Care-Giving for Culturally and Linguistically Diverse (CALD) People Living with Dementia: The Perspectives of Family Carers and Health Service Providers.* Adams J, Rowland J, Shanley C. Kyriazopoulos H, Pond D, Santalucia Y. 2009-2011, \$434,176.

NHMRC. *The Impact of Introducing Medical Emergency Team on the Reduction of Hospital Mortality and other Adverse Events in NSW.* Dr. Jack Chen. Professor Ken Hillman. A/Professor Arthas Flabouris. 2011-2013 \$581,827 over three years.

NHMRC. *Improving Maternal and Infant Outcomes: A Multicentre Randomised Controlled Trial of Midwifery and Dental Interventions.* George A. Johnson M. Dahlen H. Ajwani S. Bhole S. Yeo A. Blinkhorn A. Ellis S \$433,510 over three years.

NHMRC. *Closing The Gap: Early Childhood Sustained Home Visiting for Families of Aboriginal Infants in an Urban Community.* L.Kemp. E.Comino. L. Jackson Pulver. C. McMahon. E.Harris. M. Harris. 2010-2014. \$2,135,875.

NHMRC. *Gudaga 2: Understanding the Health, Development, and Service Use of Aboriginal Children in an Urban Environment.* E. Comino, E. Harris, L. Jackson Pulver, M. Harris, P. Smith, K. Kong, L. Kemp. 2008-2012, \$1,339,125.

NHMRC (Enabling Grant Clinical Trials Resources). *Additional Funding for the National Centre for Intensive Care Research (NCICR).* Australian and New Zealand Intensive Care Society. Professor Rinaldo Bellomo, A/Professor John Myburgh, A/Professor Simon Finfer, A/Professor Jamie Cooper, Professor Jeffrey Lipman, Dr. Gordon Doig, Professor Ken Hillman, Professor Allan Scheill. 2010-2015, \$2,500,000 over five years.

NSW Health. *Capacity Building Infrastructure Grant (CBIG).* M. Harris, E. Harris, G. Powell-Davies. 2010-2013, \$1,750,000.

NSW Industry Infrastructure Support Grant. *Health Capacity Building Infrastructure Grant.* Professor J. Braithwaite, Professor E. Coiera, Professor K. Hillman. 2010-2013, \$1,750,000 over four years.

Internal Medicine

Arthritis Australia. *Tryptase-Mediated Aggrecanolysis in Rheumatoid and Osteoarthritis.* McNeil HP. \$50,000.

Arthritis Australia. *Leucocyte Immunoglobulin-like Receptors in Patients with Systemic Lupus Erythematosus.* O'Neill SG. \$15,000.

ARC. *The Effect of Nano and Ultrafine Particles from Traffic Emissions on Children's Health.* L Morawska, G Ayoko, Z Ristovski, S Low Choy, M Moore, G Williams, G Marks, P Robinson, J Woodlands, A Monk. 2009-2013, \$774,000.

BUPA Foundation (formerly the MBF Living Well Foundation). *The STOP-STROKE trial: Supporting Treatment Decisions to Optimise the Prevention of Stroke.* M Gattellari, J Worthington, N Zwar, D Leung. 2010 – 2012, \$97,209.

CRC for Asthma and Airways. *Lane Cove Tunnel Health Impact Assessment.* G.Marks, M.Staff, V. Sheppheard, C. Cowie. 2005-2012, \$1,247,955

NHMRC. *Sex-Related Changes in Asthma During the Transition Through Puberty in the CAPS Birth Cohort.* G. Marks, B Toelle, S Leeder, C Cowell, E Tovey C Almqvist. 2009-2013, \$783,825.

NHMRC. *CCRE for Interdisciplinary Sleep Health.* R Grunstein , C Anderson, P Lui, P Cistulli, N Glozier, P Robinson, C Armour, G Marks. 2009-2013, \$2,500,000.

NHMRC. *A Randomized Clinical Trial Comparing Effectiveness of 4RIF and 9INH for Treatment of Latent TB Infection.* G Marks, R Menzies, P Seale. 2010-2014, \$445,625.

NHMRC. *A New Direction for TB Control in Highly Endemic Countries: An RCT of Active Case Finding.* G Marks, W Britton, DN Sy, NV Nhung, J Wood. 2010-2014, \$1,316,210.

NHMRC. *Exploring the Role of Respiratory Virus Infections in Childhood Asthma Exacerbations.* E Tovey, G Marks, B Oliver, W Rawlinson, H Reddel, W Smith. 2011-2013, \$575,775.

NHMRC. G Marks. Practitioner Fellowship, 2011-2015, \$514,465.

NHMRC. *DNA Segregation in Multiresistant Staphylococcus Aureus.* Firth N, Schumacher M, Jensen S, R Skurray. 2009-2011, \$294,500.

NHMRC. *Patterns of Care and Outcomes for Subarachnoid Haemorrhage: A Data Linkage Study.* JM Worthington, M Gattellari, B Jalaludin, M Jaeger, C Goumas. Associate Investigator: M Sheridan. 2011-2012, \$122,000.

NHMRC. *DESPATCH: Delivering Stroke Prevention for Atrial Fibrillation: Assisting Evidence-Based Choice in Primary Care.* M Gattellari, JM Worthington, N Zwar, D Leung, O Ukoumunne, J Grimshaw. \$561,447.

NHMRC. *Splice Variant Tryptases.* Hunt JE, McNeil HP, Bryant K. \$289,139.

Rebecca Cooper Foundation. *Mast Cell Tryptases and Articular Cartilage Catabolism.* McNeil HP, Bryant K \$15,903.

UNSW. *Flow Cytometry System.* Bryant K, McNeil HP, Phillips P, Apte M. \$95,250.

UNSW. *Real Time PCR System.* Phillips P, Apte M, Bryant K, McNeil HP. \$115,000.

UNSW. *Infrastructure Support for Senior Research Coordinator.* Apte M, McNeil HP. \$99,500.

UWS. *Type Ib Partitioning Systems of Staphylococcal Plasmids.* Jensen S and Firth N. 2011, \$20,900.

Whitely Corporation. *Biofilm Research in Hospital Settings.* Gosbell I, Jensen S. 2011, \$150,000.

Injury

Australian Orthopaedic Association Research Foundation. *Combined Randomized and Observational Study of Surgery for Type B Ankle Fracture Treatment (CROSSBAT).* I Harris et al. 2010-2011. \$35,337

NHMRC – Centres of Research Excellence. *Traumatic Brain Injury (TBI) Psychosocial Rehabilitation.* Simpson GK et al. \$2,500,000

US Department of Defence, Military Suicide Research Consortium. *Trialing the Window to Hope Program Among US Veterans.* Simpson GK et al. USD \$874,000

Mental Health & Brain Science

ARC. *Understanding Anger and its Consequences Amongst Women in Conflict-Effectuated Timor Leste: Implications for Enhancing Sustainable Development.* Silove D, Zwi A, Thorpe R. Project grant over five years, \$634,220

ARC. *Examination of the Cognitive and Biological Circuitry Underlying Social-Cognitive Training in First-Episode Psychosis.* A. Guastella, R. Langdon, E. Scott, P. B Ward, S. Naismith, and A. Redoblado Hodge. Linkage grant, 2011-2013, \$294,292.

ARC. *Building Resilience in Aceh.* Bryant R, Steel Z, Silove D. Linkage grant, three years, \$630,000.

ARC. *Enhancing Mental Health in Aboriginal Children.* Bryant R, Weston R, Whyman N, Files J, Silove D, Brooks, Steel Z, Senior K, Newman L. three year grant, \$1,021,140

ARC. *Separation Anxiety in Pregnancy: Associations with Oxytocin Release, Attachment Styles and Mother-Infant Interactions.* Prof Valsamma Eapen, Prof Derrick Silove, Prof Bryanne E Barnett, Prof Mark R Dadds, Dr Jane R Phillips, Dr Tania Trapolini. Linkage Grant, 2011-2013, \$232,767

Commonwealth Government (FaHCSIA). *Autism Specific Early Learning & Care Centre.* Prof Valsamma Eapen. Project Grant, 2010 – 2015, \$441,515.

Janssen-Cilag Pty Ltd. *Keeping Wellness in Mind: Physical Health Interventions in Youth with First Episode Psychosis (FEP) for the Prevention and Early Intervention of Cardiometabolic Complications.* J. Curtis, A. Watkins, K. Samaras, P. B. Ward. Investigator-initiated grant, 2011,\$63,400.

NHMRC.*Neurocognitive Correlates of Transition from Ultra-High Risk Mental State to Schizophrenia.* U Schall, P. T. Michie, H. Stain, P. B. Ward, R. Langdon, J. Todd, P. Rasser, V. Carr and T. Weickert. Project grant, 2009-2014, \$1,505,750.

NHMRC. *Impaired Anticipation of Sensory Events in Schizophrenia.* J. Todd, U. Schall, P. Michie, P. B. Ward. Project grant, 2011-2012,\$300,032.

NHMRC. *Post-Traumatic Mental Health: Advancing Understanding of Diagnosis, Treatment and Mechanisms.* Bryant R, Silove D, McFarlane A, Creamer M. Program grant, five years,\$7,060,000.

NHMRC. *Ethnographic, Treatment and Policy Responses to Patients Presenting For Care with Chronic Medically Unexplained Symptoms in Vietnam: A Randomised Control Trial of Cognitive Behaviour Therapy, Structured Care and Treatment as Usual Australia and Vietnam.* Steel Zachary, Liddell Belinda Jayne, Tarantola Daniel, Zwi Anthony. Project grant, three years, \$471,278.00.

NHMRC. *The Role of Trauma Related Anger and the Cycle of Violence in Post Conflict Countries: A Follow Up Study in Timor Leste.* Silove D, Zwi A, Steel Z, Brooks R, Rees S. Project grant, three years, \$540,125.00.

NHMRC. *Community Safety Research Project*, Bryant R, Weston R, Whyman N, Files J, Silove D, Raphael B, Brooks R, Senior K, McFarlane A, Zwi A, Steel Z. Three years, \$1.65million.

NHMRC. *Universal Surveillance and Early Identification of Developmental Disorders.* Eapen V. Partnership project, 2011-2013,\$890,598.

Publications

Cancer

CANCER PATHOLOGY & CELL BIOLOGY

Shin JS, Jalaludin B, Solomon M, Hong A, Lee CS. Histopathological Regression Grading Versus Staging Of Rectal Cancer Following Radiotherapy. *Pathology*. 2011; 43(1):24-30.

Hollingsworth J, Cooper WA, Nicoll KD, Wills EJ, Thiruvilangam V, Lee CS, Scolyer A. Follicular Dendritic Cell Sarcoma Of The Lung: A Report Of Two Cases Highlighting its Pathological Features and Diagnostic Pitfalls. *Pathology*. 2011; 43(1):67-70.

Yip PY, Kench JG, Rasiah KK, Benito RP, Lee CS, Stricker PD, Henshall SM, Sutherland RL, Horvath LG. Low AZGP1 Expression Predicts For Recurrence In Margin-Positive, Localized Prostate Cancer. *Prostate*. 2011 Mar 22. doi: 10.1002/pros.21381. [Epub ahead of print]

Michelle M Hill, Marie-Odile Parat, Robert G Parton, C Soon Lee. Clearing the Confusion of Cav1 and Caveolae in Cancer Compartments” *Cell* 2010; online comment (editorially reviewed).

CENTRE FOR CANCER COLLABORATION OUTCOMES RESEARCH & EVALUATION (CCORE)

Barton MB, Hudson HM, Delaney G, Gruver P, Liu Z. Patterns of Retreatment By Radiotherapy. *Clinical Oncology* 2011 23 (1): 10-18. (February 2011)

Christie D, Dear K, Thai Le, Barton M, Wirth A, Porter D, Roos D, Pratt G. Limited Hemotherapy and Shrinking Field Radiotherapy for Osteolymphoma (Primary Bone Lymphoma): Results From the Trans-Tasman Radiation Oncology Group 99.04 and Australasian Leukaemia and Lymphoma Group LY02 prospective trial. *Int. J. Radiation Oncology Biol. Phys* 2011 (July), 80 (4):1164-1170.

Batumalai V, Koh ES, Delaney GP, Holloway LC, Jameson MB, Papadatos G, Lonergan DM. Interobserver Variability In Clinical Target Volume Delineation In Tangential Breast Irradiation: A Comparison Between Radiation Oncologists and Radiation Therapists. *Clinical Oncology* 23 (2):108-113.

Jacob S, W Ng, G Delaney, MB Barton. Chemotherapy in Rectal Cancer: Variation in Utilisation and Development of an Evidence - Based Benchmark Rate of Optimal Chemotherapy Utilisation. *Clinical Colorectal Cancer* 2011 (June), 10(20): 102-107.

Boxer MM, Vinod SK, Shafiq J, Duggan KJ. Do Multidisciplinary Team Meetings Make a Difference in the Management of Lung Cancer. *Cancer* 2011,117(22):5112-5120.

Vinod SK, Caldwell Lau Annie, Fowler Allan R. A Comparison of ICRU Point Doses and Volumetric Doses of Organs at Risk (OARs) in Brachytherapy for Cervical Cancer. *Journal of Medical Imaging and Radiation Oncology* (June 11). 55(3):304-310.

Lin P, Koh E-S, Lin M, Vinod SK, Ho-Shon I, Yap J, Som S. Diagnostic and Staging Impact of Radiotherapy Planning FDG-PET-CT in Non-Small-Cell Lung Cancer. *Radiotherapy and Oncology* (Nov 11), 101 (2), pp284-290.

Barton MB, Delaney GP. A Decade of Investment in Radiotherapy in New South Wales: Why Does the Gap Between Optimal and Actual Persist? *Journal of Medical Imaging and Radiation Oncology* 2011 (August), 55(4):433-41.

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Our Finances

Ingham Institute Statement of Financial Position 2011

ASSETS

Current Assets

Cash

Operating Cash at Bank	1,236,123
Capital Project Cash at Bank	18,687,327
Other	
Debtors	182,269
Total Current Assets	20,105,720

Non-current Assets

Investments

Investment	10,421,210
Term Deposit	1,014,460
Buildings, Plant & Equipment	
Fitout & Equipment	477,339
Building under Construction	7,086,195
Opening Accumulated Depreciation	22,492
Depreciation Addition for the Year	44,116
Accumulated Depreciation	66,608
Total Non-current Assets	18,932,596
Total Assets	39,038,316

LIABILITIES

Audit Fee Payable	17,500
Trade Creditors	1,078,794
GST Creditor	(309,070)
Employee Entitlements	4,097
Total Liabilities	791,372
Net Assets	38,246,944

Our Community



Support Research & Create Hope

Like everything, a medical research facility cannot operate and achieve breakthroughs without support and funds and we need public donations to continue our important work and drive the improvements in health and disease treatments forward.

We need the community's help to spread the word and bolster public support so that we continue to make a difference in our local community. We need people to tell their friends and colleagues about the great work that doctors and researchers of the Ingham Institute are doing so that we can continue to create health outcomes for the South West and the wider Australian public.

Donations can be made via the Ingham Institute's website: www.inghaminstitute.org.au or by phoning 02 8738 9000.

You can also help by becoming a distribution outlet for the Ingham Institute's bi-monthly Newsletter, a high-quality publication that contains the latest news and research achievements of the Institute.

Businesses and individuals can also participate in a variety of sponsorship programs, including:

NAMING RIGHTS

The Ingham Institute has facilitated a naming rights program to give corporates, businesses and philanthropic individuals the opportunity to lay their stake in the ground and become part of the Ingham Institute's new research precinct by having a premium area in the new building named after them. These exclusive high-traffic areas like Clinical Trials, the Main Laboratory and a selection of Meeting and Seminar Rooms, with the funds allocated to support further research at the Institute.

CLINICAL TRIALS

Clinical trials are going to be a big focus for the Institute, with the trials focusing developing new treatments for key disease areas impacting the community, including cancer. Corporates and individuals can help by sponsoring these trials and having their name aligned with the creation of new breakthrough treatments and potential cures.



SCHOLARSHIPS AND FELLOWSHIPS

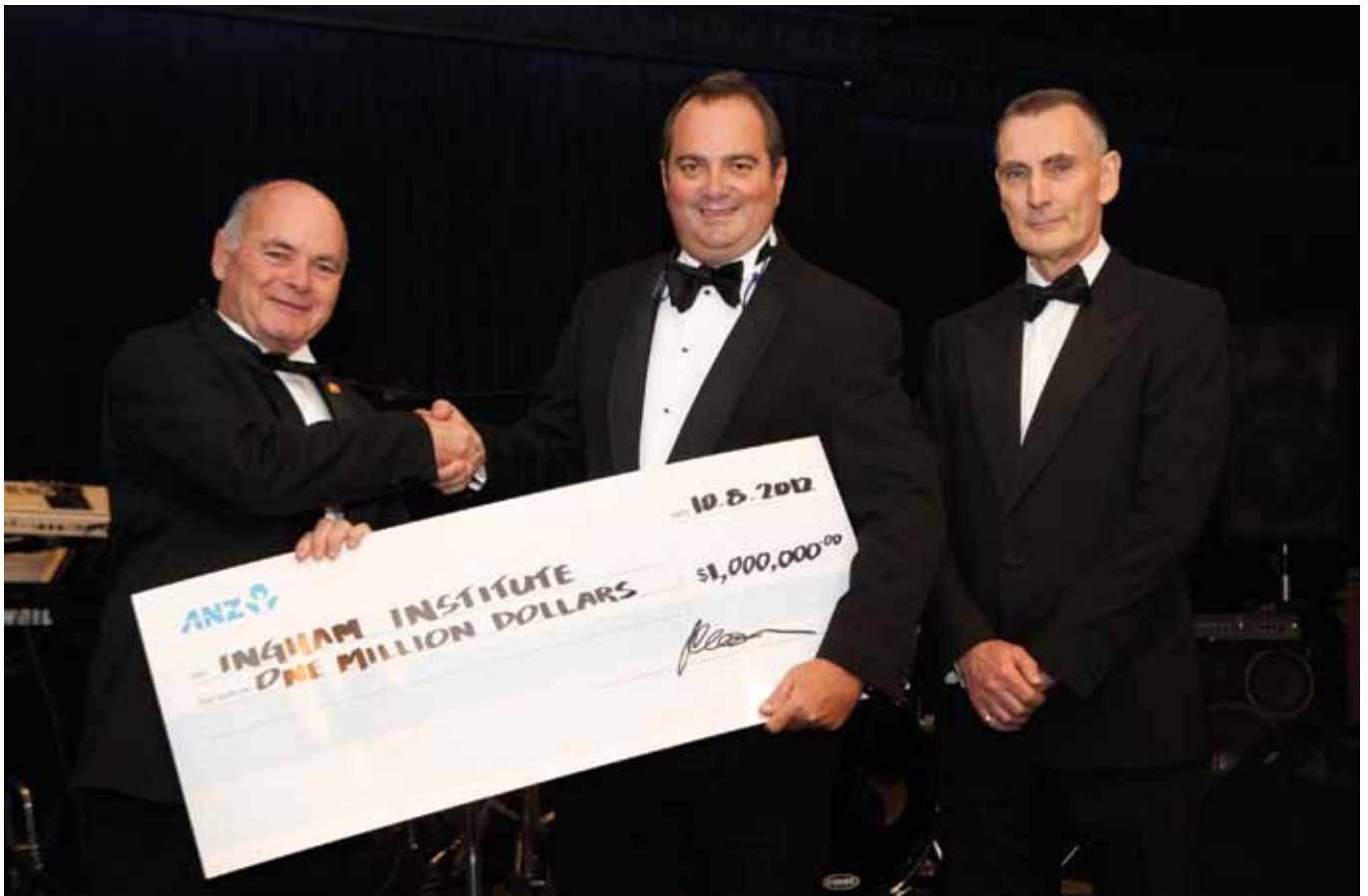
Our next generation are the lifeblood of medical research, and the Ingham Institute has a strong commitment to foster the development of young medical researchers coming up the ranks to encourage the broader thinking and new insights that are needed to support research.

Individuals and corporates can help Australia's next generation of medical research talent by supporting Scholarships and Fellowships for students to help them grow and establish successful careers at the Ingham Institute.

EVENTS

The Ingham Institute has a host of important events that corporates and individuals can support, including its Annual Research & Teaching Showcase. A major event on the NSW medical research calendar, the Ingham Institute's Annual Research & Teaching Showcase gives doctors, nurses, researchers, and allied health professionals in the South West the opportunity to showcase their research efforts for the year.

For further information about these sponsorship opportunities and to find out how you can join in the Ingham Institute's mission to improve the health and wellbeing of all Australians contact Tracey Roberts, the Ingham Institute's Fundraising Manager (email: tracey.roberts2@sswahs.nsw.gov.au). or Sophie Cooley, the Ingham Institute's Marketing & Communications Manager (email: sophie.cooley@sswahs.nsw.gov.au) or phoning 02 8738 9000.



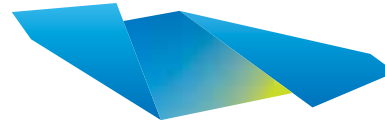
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- Mr Bob Ingham AO, Ingham Institute Founding Benefactor
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- NSW Office for Health and Medical Research
- NSW Ministry for Health
- The Australian Government's Hospital and Health Fund, Department of Health and Ageing

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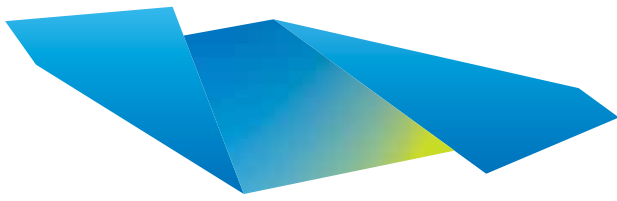
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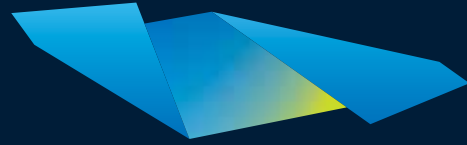
- Please send me updates on work of the Ingham Institute doctors and researchers





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