Mercy Health
Research and Development
Report 2013

Our vision is to build an enduring capacity and passion to serve those with special needs.
MERCY HEALTH GRATEFULLY ACKNOWLEDGES FUNDING
SUPPORT FROM ALL CONTRIBUTING BODIES IN 2013

They include among many others:
Medical Research Foundation for Women and Babies
Mercy Health Foundation
Academic, Research & Development Committee Small Project Grants
National Health and Medical Research Council Diabetes Australia Research Trust
Austin Hospital Medical Research Foundation
Royal Australian and New Zealand College of Obstetricians and Gynaecologists
Stillbirth Foundation Australia
CASS Foundation
University of Melbourne
AVANT

Cover images: Ms Debra Jinks, Ms Sally Beard and Ms Tu’uhevaha Kaitu’u-Lino

ISSN: 1836-9162
© Mercy Health 2014
CONTENTS

4 MESSAGE FROM THE MERCY HEALTH CEO AND CHAIRMAN
5 Introduction: CHAIRMAN, ACADEMIC RESEARCH AND DEVELOPMENT COMMITTEE
6 Profile: Dr Owen Stock
8 HEALTH SERVICES, WOMEN’S & CHILDREN’S SERVICES PROGRAM
8 University of Melbourne, Department of Obstetrics & Gynaecology, Mercy Hospital for Women
14 Midwifery Professorial & Professional Development & Research Unit, Mercy Hospital for Women
15 Gynaecological Oncology Department, Mercy Hospital for Women
16 Urogynaecology Department, Mercy Hospital for Women
16 Endosurgery Department, Mercy Hospital for Women
17 Paediatrics Department, Mercy Hospital for Women
18 Profile: Assoc Prof Martha Lappas
20 UNIVERSITY OF NOTRE DAME AUSTRALIA, MELBOURNE CLINICAL SCHOOL
21 HEALTH SERVICES, SURGICAL & SPECIALIST SERVICES PROGRAM
21 Department of Anaesthesia, Mercy Hospital for Women
22 HEALTH SERVICES, MEDICAL SUBACUTE & PALLIATIVE CARE SERVICES PROGRAM
22 Emergency Department, Werribee Mercy Hospital
22 Mercy Palliative Care
24 HEALTH SERVICES, AMBULATORY ALLIED HEALTH & COMMUNITY SERVICES PROGRAM
24 Nutrition & Dietetic Department, Mercy Hospital for Women
25 Outpatients Department, Mercy Hospital for Women
25 Medical Imaging Department, Mercy Hospital for Women
26 Multicultural Services Unit, Mercy Hospital for Women
28 Physiotherapy Services, Werribee Mercy Hospital
28 Mercy Health Lymphoedema Service
29 O’Connell Family Centre
30 HEALTH SERVICES, MENTAL HEALTH SERVICES PROGRAM
30 Perinatal Mental Health Unit, Mercy Hospital for Women
32 HUMAN RESEARCH ETHICS COMMITTEE: NEW PROJECTS APPROVED 2013
36 IN PRINT AND ONLINE
45 CONFERENCES AND PRESENTATIONS
INNOVATION TRANSFORMS LIVES

We are proud to present this retrospective of Mercy Health’s research activity in 2013.

Our research program plays a pivotal role in advancing Mercy Health’s leadership of groundbreaking, evidence-based medical practice. As one of Australia’s leading clinical teaching and training providers, we recognise that a culture of innovation through translational research is critical to fostering tomorrow’s healthcare services.

Our scientists and clinician-scientists have again this year successfully integrated research, teaching and training into high-risk clinical care across women’s health, neonatal care, maternal fetal medicine, perinatal mental health, mental health, palliative care and aged care services. The implications of their work are far reaching, with many outcomes already embraced globally to improve patient care.

Mercy Health’s commitment to partnering with key researchers in universities and hospitals throughout Australia has been central to our achievements. Collaboration ensures a cohesive national response to long-term and emerging health issues is feasible, with obvious benefits to the community.

None of our work would be possible without the generous support of both federal and state governments, our project partners, sponsors, donors, funding bodies and support staff. We thank them for sharing our vision to deliver optimal, compassionate care to those who need it most.

On behalf of the Mercy Health Board and Executive Group, we commend our researchers for their passion, teamwork and stewardship in striving to improve the lives of those who need our care.

Adj Prof Stephen Cornelissen
Chief Executive Officer

Mr Julien O’Connell AM
Chairman

Our mission is to follow Jesus Christ in His mission of mercy through the delivery of health, aged care and community services.

Our vision is to build an enduring capacity and passion to serve those with special needs.

Our values reflect the key behaviours that guide our interactions with each other and those we serve.
MESSAGE FROM ASSOC PROF DAVID ALLEN

It is a pleasure to present the 2013 Mercy Health Research and Development Report, the sixth annual report on our research activity.

Since the report’s inception, Mercy Health’s research output has steadily increased throughout the organisation, especially in the fields of obstetrics and gynaecology. The Board, the Chief Executive Officer and the Executive Directors have continued to actively support and promote research, which has resulted in increased funding and achievement.

We are grateful for the support we have received from the many funding bodies that make our research effort possible. Mercy Health has produced and attracted numerous excellent researchers, many of whom have achieved national and international acclaim. Our strong research culture does not happen by chance, and I acknowledge specifically the leadership provided by Prof Michael Permezel, Prof Susan Walker, Prof Stephen Tong, Prof Susan McDonald and Prof Fran McInerney. There are many other academic and research leaders in the organisation who also play pivotal roles, and we thank them all.

We also acknowledge Mercy Health Foundation’s role in supporting research by funding the Chair of Maternal Fetal Medicine, Chair in Aged Care and Mercy Health Breastmilk Bank.

The Mercy Health Human Research Ethics Committee also plays an important role, and their input is acknowledged and appreciated. We also recognise and thank the Medical Research Foundation for Women and Babies for their enduring support and funding of Mercy Health projects over many years. I also thank the Academic Research and Development Committee, Mercy Health for their input, my executive assistant, Vicky Karitinos, for collecting and compiling the initial data from the many contributors to this report, and the publisher, Amber Kelly, who assisted me with editing the report.

Once again, we congratulate our many researchers, thank our generous funding bodies, and hope you enjoy reading the 2013 Mercy Health Research and Development Report.

Assoc Prof David Allen
Chairman, Academic Research and Development Committee, Mercy Health
As a clinician-scientist, I hope I can help translate the science into its application.

Dr Owen Stock
University of Melbourne Department
Mercy Hospital for Women
“Most of us who get into medicine want to improve outcomes and lives, and in obstetrics you get to do that day in day out,” observes Dr Stock. “But there are also challenges that have been there for a very long time on which we haven’t made an enormous amount of progress.”

Dr Stock’s current research is showing potential to solve two of childbirth’s enduring challenges. The first focuses on fetal growth restriction due to hypoxia [lack of oxygen], a condition implicated in the tragedy of stillbirth. It builds on the groundbreaking work of the Translational Obstetrics Group’s Dr Clare Whitehead in measuring levels of RNA, a messaging molecule from the placenta, in a mother’s blood to gauge oxygen levels in their baby. This allows caregivers to make an informed decision on whether to deliver at-risk babies before their condition worsens.

“We’re extending Clare’s work into a larger project across seven other hospitals in Australia and New Zealand to validate the outcomes across a bigger cohort,” says Dr Stock. “We recruit women who present preterm with a small baby at risk of stillbirth. On the day of delivery we take a blood sample from the mother and one from the cord and match them to see if there’s a correlation.

“The end result of the study is 12–18 months away but we’re very hopeful it will work out. It would be an incredibly promising development in non-invasive testing.”

The second project also uses a non-invasive maternal blood test to combat another key area of risk for babies: prematurity and in-utero infection.

“We’re investigating preterm, pre-labour rupture of the membranes and the often associated infection, which can go on to cause long-term problems for the baby including cerebral palsy,” Dr Stock explains. “At the moment we make that diagnosis using clinical signs and blood tests that aren’t very accurate or specific. So again we’re looking for markers that might be better predictors of infection in the placenta and in the baby.

“It’s early days but our initial results look promising.”

The rewards of this study could resonate long into the future.

This could have a massive impact on a child years down the track

Dr Stock credits his supervisor, Prof Stephen Tong, for firing his early interest in clinical research and the team at Mercy Hospital for Women for supporting it.

“I’ve known Stephen from when I was a resident in my first year at the Mercy in 2006. I later worked with him at Monash Medical Centre. So he deserves credit for stimulating and supporting my interest in research.

“The Translational Obstetrics Group as a whole is an amazing little powerhouse of research. We have some incredibly talented scientists in the group and we couldn’t do this work without our fantastic research midwives who go the extra mile in approaching women and collecting samples. Then there are all the people at the coalface, the midwives and registrars, who keep an eye out for clinical cases that come through.”

In working to solve obstetric riddles that have endangered mothers and babies for millennia, Dr Stock has turned to new technologies in which laboratory and clinical research intersect. It’s an arena in which he is well placed to make a contribution.

“Some of the techniques we’re just starting to explore, including next-generation sequencing, apply sophisticated molecular biology techniques that generate an enormous amount of data. But that also requires sophisticated computational biology. So the challenge is to enable the people who are good at the laboratory science, the bioinformatics and the clinicians to talk to each other. As a clinician-scientist I hope I can help translate the science into its application.

“The raison d’etre of clinician-scientists is to be that facilitator and stimulate research at that interface.”
In 2013, research achievements in the University of Melbourne Department exceeded all expectations.

In addition the department received five National Health and Medical Research Council (NHMRC) grants with a total of more than $2 million over the next three years.

We were also fortunate to receive funding for the inaugural Chair of Maternal Fetal Medicine through Mercy Health Foundation. This has brought increased recognition of research at Mercy Hospital for Women. New and exciting collaborations are one of many likely benefits.

RESEARCH ACTIVITY

Professor Sue Walker research group
Sue Walker, Elizabeth McCarthy, Alexis Shub, Alison Fung, Lisa Hui, Nadia Bardien, Dani Wilson

The Maternal Fetal Medicine (MFM) research group comprises maternal fetal medicine clinical researchers, led by Prof Sue Walker. The vision of the MFM centre is to integrate the three professional domains — excellence in clinical care, education and research — to ensure the expectations of pregnant women today will continue to be met with delivery tomorrow.

We have close clinical and scientific collaborations with the Translational Obstetrics Group (TOG, led by Prof Stephen Tong), the other University of Melbourne Obstetric Research Groups (led by Prof Permezel, Assoc Prof Lappas and Dr Georgiou), Austin Health, LaTrobe University, Deakin University, Royal Women’s Hospital and Monash Medical Centre. We also have a new link to Stellenbosch University, South Africa through Dr Cathy Cluver.

Major research themes

Sleep disordered breathing in pregnancy

This collaboration between the MFM group and the Institute for Breathing and Sleep, Austin Health explores how sleep disordered breathing may explain some of the adverse outcomes in pregnancy that are more common among obese women, such as hypertension, problems with fetal growth and stillbirth. This year, Dr Alison Fung and colleagues have published a major longitudinal study confirming an adverse effect of obstructive sleep apnoea on fetal growth. Studies continuing into 2014 include the role of sleep disordered breathing in women with pregnancy hypertension (the focus of Dani Wilson’s PhD) and possible effects of sleep disordered breathing on the risk of stillbirth in growth-restricted fetuses.

Improved diagnosis of fetal growth restriction

Fetal growth restriction is the single biggest contributor to stillbirth, a tragedy affecting 1 in every 130 Australian families. Slowing of growth in late pregnancy may be an important measure of reduced placental reserve. Molecules released by the placenta into the maternal blood stream may also provide an alternative method to assess fetal growth and wellbeing. In 2013, we received NHMRC funding to pursue this research in 2014-2016.
Improving pregnancy outcomes in obese women

The obesity epidemic brings with it substantial risks to both women during their pregnancy and their babies. In collaboration with Deakin University, the group is examining how we may inform and empower women around healthy gestational weight gain, diet and activity.

New opportunities

Dr Lisa Hui commenced as MFM consultant in April 2013 after training in Sydney and completing her PhD in the laboratory of Dr Diana Bianchi, Tufts University, Boston. Dr Hui brings a wealth of clinical and laboratory skills to our team and her publication record attests to her unequalled understanding of translating the new generation of genetic testing into clinical practice.

Dr Cathy Cluver made outstanding contributions to the department in 2013. With Dr Simon Meagher, she developed a fetal echocardiography teaching tool that has been taken up by the International Society of Ultrasound in Obstetrics and Gynaecology, ensuring wide global adoption. She returns to Stellenbosch University in Capetown to undertake a PhD with Prof Tong, Prof Walker and local collaborators in the first double blind randomised controlled trial of a new potential therapeutic for preeclampsia.

Dr Alexis Shub rejoins us in 2014 after completing 12 months in Timor Leste providing leadership and obstetric education to the Asia Pacific region. In addition to her clinical, research and education roles, Dr Shub implemented successful policy changes such as the rollout of HPV vaccination programs, which will make an enormous difference to the reproductive health of Timorese women.

Bringing research into clinical practice

Ensuring evidence is appropriately translated into clinical practice is an important role of the MFM research group. This year we have published on H1N1 vaccination in pregnancy; prevention of perinatal Hepatitis B transmission; the use of emerging genetic technologies, such as molecular karyotyping, in the prenatal setting; and, implementation of non-invasive prenatal testing into clinical practice.

The MFM has provided obstetric lead for the following national and international externally funded major obstetric trials: the Australian Placental Transfusion Study; the EPPI Trial – Enoxaparin for the prevention of preeclampsia and intrauterine growth restriction; and, the MAGENTA trial: Magnesium Sulphate at 30-34 weeks’ gestational age: neuroprotection trial.

Translational Obstetrics Group (TOG)

Stephen Tong, Tu’Uhevaha Kaitu’u-Lino, Natalie Hannan, Owen Stock, Fiona Brownfoot, Laura Touhey, Monika Skubisz, Clare Whitehead, Kirsten Palmer, Sally Beard

Prof Tong leads this team of dedicated clinician-scientists and scientists whose focus is to pursue scientific discoveries that directly impact bedside care, to improve outcomes for pregnant women.

Research themes

Medication-based treatments to replace surgery for ectopic pregnancies

Ectopic pregnancies are life-threatening since they can erode through major blood vessels, causing fatal bleeding. The team is developing novel ways to cure ectopic pregnancies with medication, allowing women to completely avoid operations.

Since 2009, the TOG has been developing a promising treatment approach that consists of a single injection
Dr Tu’uhevaha Kaitu’u–Lino
University of Melbourne Department
(methotrexate) and seven oral tablets (called ‘gefitinib’, an Epidermal Growth Factor Receptor Inhibitor) taken daily.

In 2013, the group published two companion papers in the journal Obstetrics and Gynaecology. The first paper described the laboratory preclinical work underpinning the use of a combination of gefitinib and methotrexate to treat ectopic pregnancy. The second paper described results from a Phase 1 trial of 12 women diagnosed with ectopic pregnancies and treated with these drugs. The trial, a collaboration with University of Edinburgh, showed this drug combination may be more effective than giving just methotrexate alone (the current clinical treatment for small ectopic pregnancies).

Treatments for severe preeclampsia
Severe preeclampsia is a pregnancy complication that can be very risky for both baby and mother. There are currently no treatments to slow or reverse the disease other than to deliver the fetus. This can mean making the very difficult decision to deliver the baby preterm in order to save the mother.

TOG is researching drugs to treat preeclampsia for which we have received significant NHMRC project grant funding. The funds will allow us to continue searching for potential treatments and new diagnostics to improve clinical care of women with preeclampsia.

Diagnostics to monitor wellbeing of the sick fetus in the womb
TOG has discovered molecules released from the placenta into the mother’s bloodstream when the fetus is significantly starved of oxygen and in peril. Measuring these mRNA molecules could be a new way to identify these fetuses, allowing clinicians to better time delivery and decrease the numbers of babies lost to stillbirth. This work, headed by Dr Clare Whitehead and supervised by Prof Tong, was published in BMC Medicine to significant online and media attention.

The team had previously secured an NHMRC grant to conduct a large validation study on whether this finding can be developed into a clinical test. The resulting seven hospital international multicentre FOX Study run by Dr Owen Stock recruited throughout 2013.

Martha Lappas Research Group
Martha Lappas, Ratana Lim, Gillian Barker, Clyde Riley, Roxanne Hastie, Carrington Moonwood, Marin Poljak

Research themes
Understanding the cellular and molecular mechanisms that govern birth
Preterm birth is one of the most significant healthcare issues globally. To provide the best possible start to life and improve newborn healthcare delivery, we must better understand what triggers labour and identify new ways to delay birth. This is the overall objective of this research project. Clarifying the mechanisms that regulate human labour and delivery may enable us to reduce the adverse consequences of being born too early.

The effect of maternal diabetes and obesity on placental function: implications for fetal growth and development
Maternal diabetes and obesity during pregnancy are associated with cellular and metabolic damage in the placenta. Placental damage is implicated in chronic diseases later in life including obesity, diabetes, cardiovascular disease and certain cancers. This project seeks to gain a better understanding of how maternal diabetes and obesity in pregnancy damage the placenta with a view to developing clinically useful interventions that improve fetal outcomes of critical importance for public health.
Preterm birth is associated with significant perinatal morbidity and mortality. The ability to accurately predict when preterm birth might occur will greatly facilitate improved and targeted therapies for preventing this common condition.

With the support of research coordinator Ms Gabrielle Fleming and past and present PhD students Dr Jan Heng and Ms Stella Liong, the team has identified a number of predictive biomarkers associated with preterm labour and preterm rupture of fetal membranes. PhD student Ms Stella Liong submitted her thesis in 2013 and produced three principal author and two co-author publications. Team leaders Dr Harry Georgiou and Dr Megan Di Quinzio plan to conduct a comprehensive diagnostic trial to evaluate the predictive efficacy of these biomarkers in the general obstetric population.

**Gestational Diabetes Follow-Up Project**

*Ms Connie Louizos, Ms Debra Jinks, Dr Harry Georgiou, Assoc Prof Martha Lappas*

The Gestational Diabetes Follow-Up Project is an adjunct to the well-known Gestational Diabetes Follow-Up Program, Australia’s longest running clinical service and epidemiological study into the development of Type 2 diabetes among women with a history of gestational diabetes mellitus. The project has been substantially funded over many years by the Medical Research Foundation for Women and Babies. It acknowledges the pioneering work of Emeritus Prof Norman Beischer, who made significant contributions to our understanding of the epidemiology of gestational diabetes and its immediate and long-term consequences.

Research coordinators Ms Connie Louizos and Ms Debra Jinks have continued to recruit and follow up thousands of women who previously experienced gestational diabetes. Assoc Prof Martha Lappas and Dr Harry Georgiou, assisted by Ms Gillian Barker, continue to evaluate blood-borne proteins and lipids that may indicate Type 2 diabetes onset. The early detection of Type 2 diabetes would allow early intervention strategies to be implemented, preventing or delaying complications of diabetes such as cardiovascular disease, kidney disease and blindness.

**RESEARCH PROJECTS**

- ‘Gestational diabetes mellitus follow-up program: recruitment of participants’. Georgiou H.
- ‘Validation of vitamin D binding protein in maternal serum to predict impending labour’. Liong S, Di Quinzio M, Permezel M, Georgiou H.
- ‘Placental mitochondrial dysfunction leads to cellular and metabolic damage in diabetic pregnancies’. Lappas M (CIA).
- ‘Dietary phytophenols: therapeutic treatment for preterm birth?’. Lappas M, Lim R.
- ‘Understanding what triggers birth: new opportunities for prevention of early delivery’. Lappas M.
- ‘Oxidative stress in pregnancies complicated by gestational diabetes’. Lappas M.
- ‘The role of neuropeptides in the regulation of maternal mood and behaviour in both the antenatal and postpartum period’. Galbally M, Lewis A, Lappas M, Saffery R.
- ‘Facts, figures and feelings about weight in pregnancy: a randomised controlled trial’. Shub A, McCarthy E, Lappas M.
- ‘Prediction of preeclampsia in women with prepregnancy diabetes’. Shub A, McCarthy M, Lappas M.
- ‘Sirtuin 1 (SIRT1) as a therapeutic target to prevent preterm birth’. Lim R, Lappas M.
- ‘Sirtuin 1 (SIRT1) as a therapeutic target to prevent preterm birth’. Lim R.
- ‘Dietary phytophenols: therapeutic treatments for preterm birth?’. Lim R.
- ‘Developing a biomarker blood test at 28 weeks to identify pregnancies at high risk of fetal growth restriction and stillbirth’. Tong S.
- ‘Investigation of soluble endoglin: the toxin responsible for severe preeclampsia’. Kaitu’u-Lino T.
- ‘Developing molecular therapeutics and diagnostics for pregnancy complications’. Tong S.
- ‘Measuring RNA in maternal blood to monitor the wellbeing of growth-restricted fetuses’. Tong S, Walker SP, Said J.
- ‘Developing a biomarker at 28 weeks to identify pregnancies at high risk of fetal growth restriction and stillbirth’. Tong S, Walker S, Kaitu’u-Lino T, Palmer K.
- ‘Understanding how sFlt-1, a toxin of preeclampsia is released’. Kaitu’u-Lino T, Palmer K and Tong S.
- ‘Developing diagnostics and therapeutics for preeclampsia: targeting a novel placental specific sFlt-1 variant’. Tong S, Palmer K, Kaitu’u-Lino T.
- ‘Improving the prediction and detection of contributors to term stillbirth’. Walker SP, Tong S, Whitehead C.
‘The role of sirtuin (SIRT) proteins in the mechanisms that regulate infection induced preterm birth’. Lappas M, Permezel M, Tong S.

‘Lansoprazole as a novel therapeutic for preeclampsia’. Hannan N.

‘Targeted placental therapeutic delivery to treat preeclampsia’. Hannan N.

‘Targeting the toxins of preeclampsia’. Kaitu’u-Lino T.

‘Corin, a cardiac enzyme, is critical to pregnancy success’. Hannan N.

‘Development of a novel animal model to examine preeclampsia therapeutics’. Hannan N.

‘The GAP study: towards adequate national provision of genomic testing in pregnancy’. Halliday J, Walker SP et al.


‘Biomarkers for prediction of chorioamnionitis in preterm prelabour rupture of membranes: the FIN study’. Walker SP, Stock O, Tong S.

‘PIE: a double blind RCT for treatment of early onset preeclampsia’. Walker SP, Cluver C, Tong S.

‘Improving consent for Caesarean Section’. Walker SP, Truong A.

‘Improving detection of late onset fetal growth restriction’. Walker SP, Edwards L.

AWARDS

Prof Stephen Tong: NHMRC Achievement Award for the Top Ranked Clinical Career Development Fellowship nationally in the 2013 funding round.

Drs Monika Skubisz, Kirsten Palmer and Clare Whitehead: awards at the Society for Gynaecological Investigation (SGI) meeting, Orlando, 2013.

Dr Tu’uhevaha Kaitu’u-Lino: Newcastle Reproduction Emerging Research Leader Award at The Society for Reproductive Biology, Sydney 2013.

Dr Kirsten Palmer: Society for Reproduction (SRB) award for best scientific poster.

Dr Fiona Brownfoot: Austin Medical Research Foundation Young Investigator Award.

Dr Clare Whitehead: Organon Award for the best oral presentation.
The Professorial and Professional Development & Research Unit continues to promote an environment of learning through clinical training and research, leading to a highly skilled and knowledgeable workforce.

The unit also supports and works closely with the Nursing & Midwifery Leadership Group (NMLG), developed initially at Mercy Hospital for Women in 2011 and broadened in 2013 under the new program structure to include Werribee Mercy Hospital. In 2013 a professional development program was founded to actively promote and support nursing and midwifery research and education.

RESEARCH PROJECTS

‘Influenza vaccination uptake during pregnancy’. Pollock W, McCarthy E, Sommerville M, McDonald S.


‘Pattern and rate of massive transfusion for obstetric haemorrhage’. Pollock W, Simmons S, Phillips L, McDonald S.

‘Need for, and analysis of, a modular maternal critical care education program’. Pollock W, McDonald S.


‘Evaluation of a Student Midwife Fellowship program’. Sacco J, Pollock W, McDonald S.

‘Information and support to women who experience a miscarriage at the Mercy Hospital for Women’. McCarthy M, McDonald S, Pollock W.

‘Vaginal pessaries: can educational brochures help patients to better understand their care?’ . Murray C, Thomas E, Pollock W.

‘Outcomes of neonates receiving nasal CPAP in a level 2 hospital from 2010-2012: a clinical audit’. Patterson H, Anning J, Pollock W.

ACADEMIC ACHIEVEMENTS

A number of staff completed Masters degrees with La Trobe University or other universities in 2012-2013: Kym Harrison, Elizabeth Thomas, Debra Pidd, Mary McCarthy and Nadia Bardien.

Many of these staff are now presenting, publishing and sharing their skills with wider local, national and international audiences.
The Gynaecological Oncology Unit has seen a marked increase in clinical workload over 2013.

The unit continues to provide multidisciplinary care to women with gynaecological cancer which includes complex surgery, chemotherapy and all aspects of supportive care. We provide a consultative service including case and pathology review to all of rural and regional Victoria and southern New South Wales.

Current certified gynaecological oncologists include Assoc Prof Peter Grant, Assoc Prof David Allen, Dr Simon Hyde and Dr Julie Lamont.

The unit also provides a colposcopy/dysplasia service to evaluate and treat pre-invasive abnormalities of the genital tract. It is also increasingly involved in complex surgery related to benign gynaecology and obstetrics.

Assoc Prof Peter Grant undertook a sabbatical leave to work within the Ontario Palliative Care program at Princess Margaret Hospital, Toronto.

RESEARCH PROJECTS

‘Ovarian Cancer Prognosis and Lifestyle Study (OPAL)’. NHMRC funded national study. Webb P, Friedlander M, Grant P, Obermair A, deFazio A.

‘PARAGON. Phase 2 study of aromatase inhibitors in women with potentially hormone responsive recurrent/metastatic gynaecological neoplasms’. ANZGOG 0903. Grant P.


‘Sentinel lymph node identification in early stage vulvar cancer: a literature review’. Grant P, Pendlebury A, Lamont J. (Submitted to Cancer Australia as National Guideline).


REPRESENTATIVE BODIES

D Allen: NEMICS Governance Committee (Member, past Chairman), Australian Society of Colposcopy and Cervical Pathology (President), Safety Monitoring Committee for Cervical Cancer in Australia (DoHA, Member), Victorian Surgical Consultative Council (DoH, Member) (Ministerial appointment, representative for gynaecology in Victoria), Surgical Outcome Information Initiative Committee (DoH, Member), Gynaecological Oncology Examination Committee, RANZCOG.

P Grant: Cancer Australia (Chair, Clinical Expert Advisory Panel), Medical & Scientific Advisory Committee (MSAC Expert Sub Committee, Commonwealth Department of Health and Ageing).

S Hyde: RANZCOG Gyn Oncology Examination Committee, Gynaecological Oncology, Subspecialty Training Supervisor.

D Allen, P Grant, S Hyde: members of Australian Ovarian Cancer Study Group.
The Urogynaecology Department assesses and manages women with pelvic floor problems such as uterovaginal prolapse and urinary incontinence.

Research reviews and original articles were published in 2013 on not only prolapse and stress incontinence but also urinary tract infections, urinary vesicovaginal fistulae, sexual function before and after surgery, and potential complications of surgery and their management.

Dr Yik Lim has served on the Urogynaecological Society of Australasia for a number of years and will be convenor for the 2014 Scientific Meeting in Melbourne. Dr Joe Lee has organised numerous workshops for the International Urogynaecology Association. Dr Alison De Souza, Ms Liz Thomas and Dr Lore Schierlitz have finalised their research on sexual function in pregnancy and the 12 months postpartum.

Prof Peter Dwyer continues in his fourth year as Editor in Chief of the International Urogynaecology Journal, and was the invited guest lecturer for The Annual Scientific Meeting of the Israeli Urogynaecology Association in Ramon, Israel in 2013.

The Department of Endosurgery provides expertise in minimal access surgery as it applies to gynaecology.

Endosurgery A led by Professor Peter Maher focuses on patients with symptoms of pelvic pain and endometriosis. Endosurgery B, headed by Dr Emma Readman, focuses on menstrual irregularities and heavy menstrual bleeding.

RESEARCH PROJECTS

‘A pilot study to examine the presence of nerve fibres in eutopic endometrium and the usefulness of endometrial biopsy to diagnose endometriosis in women with pelvic pain.’ Readman E, Ellitt L, Mcllwaine K, Jagasia N, Maher P.


‘Comparison between transvaginal sonography and magnetic resonance imaging for the diagnosis of deep infiltrating endometriosis and prediction of the need for colorectal team involvement.’ Ellitt L, Jagasia N, Mcllwaine K, Cameron M, Manwaring J, Stone K, Maher P.

Collaborations

The Endosurgery Unit ran two laparoscopic hysterectomy training courses in February and November 2013. These were each attended by six visiting gynaecologists and faculty members Professor Peter Maher, Dr Emma Readman, Dr Janine Manwaring, Dr Melissa Cameron and Dr Lenore Ellitt. The course, run over two days, included a look at the theory of laparoscopic hysterectomy, a skills workshop and participation in three laparoscopic hysterectomies.

Dr Emma Readman was part of the organising team of gynaecologists who travelled to Mongolia as part of the Australian-Mongolian Medical Project 2013. Dr Readman taught advanced laparoscopic surgery to the Mongolian Association of Gynecological Surgery and Endoscopy.
The Department aims to better understand the special needs of babies in the Neonatal Intensive Care Unit and Special Care Nursery and improve their care.

Research areas include respiratory management, prevention of chronic lung disease, detection and prevention of neurological injury, developmental care, optimisation of nutrition and growth, and ethical aspects of care and counselling.

RESEARCH PROJECTS

Dr Clare Collins has completed a randomised controlled trial demonstrating heated humidified high-flow prongs showed similar efficacy in providing respiratory support post extubation and caused less nasal trauma.

The cytokine study by Drs Kai König and Friederike Beker, run jointly with the Ritchie Centre, examines inflammatory mediators in the blood of premature infants in the first week of life which may lead to chronic lung injury. Data are likely to be analysed and reported in 2015.

The OPTIMIST study is a randomised controlled trial of the safety and efficacy of an alternative way to administer artificial surfactant without intubating premature infants. This study is being coordinated by Drs Jim Holberton and Ajit Aiyappan.

The diabetes and antenatal milk expressing (DAME) study is a multicentre randomised controlled trial to examine the safety and efficacy of antenatal breastmilk expression in mothers with gestational diabetes. Dr Gillian Opie is one of the chief investigators of this NHMRC funded study.

The Australian Placental Transfusion Study (APTS) is the first large multicentre randomised controlled trial examining the effect of delayed clamping of the umbilical cord to ensure the infant gets as much blood from the placenta as possible. Early studies have suggested a beneficial effect in reducing the severity of respiratory disease and neurological injury in preterm infants. Enrolment has been very successful.

The MIS-BAIR study coordinated by Dr Dan Casalaz examines the effect of immunisation with BCG. There is now evidence this may also reduce mortality due to other infections and reduce risk of allergic disease. This study recruited throughout 2013.

The Growth and Development Clinic remains active in research, with ongoing follow up of infants involved in the CAP trial. This is a trial of caffeine for apnoea of prematurity and also long-term developmental follow up of extremely low birthweight infants born in 2005.

We acknowledge our invaluable support staff, especially our research nurses, Geraldine Walsh, Chelsea Webster, Liz Noble and Heather Woods, without whose enthusiasm, dedication, patience and organisational skills this research work would not be possible.

Focus on newborn nutrition

Mercy Health Breastmilk Bank based at Mercy Hospital for Women remains active in sociological research. Activity in 2013 focused on clinician perceptions of safety and value of human donor milk (the LiquidGold study), together with an ongoing study of the attitudes and beliefs of bereaved mothers to the possibility of milk donation after neonatal death. Dr Gillian Opie and Mrs Kerri McEgan collaborated on the study with Dr Katherine Carroll of University of Technology, Sydney.

The N3RO study, coordinated on site by Dr Jim Holberton is a multicentre randomised controlled trial investigating whether including fish oil in feeds reduces the risk of chronic lung disease in premature infants. This study has been recruiting successfully throughout 2013.

The ProPrems Neuro trial examines the neurodevelopmental outcome for extremely preterm infants of including probiotics in feeds. Dr Gillian Opie is a chief investigator of this NHMRC funded multicentre Australian and New Zealand trial.
The Australasian Redesigning Healthcare Summit brings together clinicians, managers, leaders and others with a focus on improving patient flow, service quality, systems and processes.

Assoc Prof Martha Lappas
University of Melbourne Department, Mercy Hospital for Women

"I've always been passionate about fighting kids' diseases and now I'm here working to save babies."

Assoc Prof Martha Lappas
University of Melbourne Department, Mercy Hospital for Women
An integral part of the Obstetrics, Nutrition and Endocrinology Group research team in the University of Melbourne Department at Mercy Hospital for Women, Assoc Prof Lappas has used those years to explore a broad spectrum of factors implicated in preterm birth from both maternal and fetal perspectives. Her drive to combat this potentially catastrophic phenomenon has led to her current focus on new applications for dietary phytophenols in protecting the brains of babies born too early.

Found naturally in fruit and vegetables, phytophenols can stop the mechanisms that cause preterm birth due to infection. This is a major advance against the leading cause of morbidity and mortality in infants.

“A big issue with preterm birth is the children often have neurological defects and many end up with cerebral palsy or intellectual and developmental issues,” says Assoc Prof Lappas. “What we’ve been able to show is that phytophenols can reduce the injury that occurs in the brain.

“So we now have evidence that the brains of pups that have been fed phytophenols, by injecting the synthesized form into the mother, have improved protection.”

The findings are the latest in a long list of achievements dating back to 1998, when Assoc Prof Lappas began her PhD studies at Mercy Hospital for Women. “I then received a fellowship from the University of Melbourne, and two subsequent Career Development Fellowships from the National Health and Medical Research Council,” Assoc Prof Lappas says.

The following years have been studded with honours and grants recognising her pioneering work in the pathogenesis of preterm labour, premature rupture of membranes and gestational diabetes mellitus. Her commitment to improving women’s and babies’ health can perhaps be traced to two trailblazing women who helped shape her early work.

“I did my honours degree with a woman scientist, Jennifer Rolland, who was one of the only female professors working at Monash University. She was inspirational as a woman working in a man’s world.

“I also want to acknowledge Lynn Tuttle, one of the hospital’s first research midwives when we started out 17 years ago. There was hardly anything set up, we didn’t know what we were doing. She came on board and was just inspirational. She set up the way we still collect samples and approach women now.

“I’ve always been passionate about fighting kids’ diseases and now I’m here working to save babies, which is exciting. My goal is simply that someday this research will make a difference to babies born too early. We hope we’re taking tiny steps towards future developments.”

A supportive research community has been fundamental to fostering Assoc Prof Lappas’ work.

“Michael Permezel, Professor of Obstetrics and Gynaecology in the University Department, has been a mentor, so passionate about my research. Prof Sue Walker has been inspiring: she is gracious, knowledgeable, has time for everyone. More recently I’ve got to know Prof Norman Beischer who was the Department’s founding professor. Even though he’s retired he’ll still ring and say ‘I’ve found this great article you should read’. For someone who has done everything in this field to still be interested in my research is just incredible.

“The Mercy more broadly has been very supportive of our research, supplying midwives, the hospital infrastructure and access to the women who are about to deliver.”

Assoc Prof Lappas is keenly aware her work depends on the contributions of this last group.

“I’m inspired by the women who, when they’re having a baby really early, come here in distress but if we ask them for some tissue will say ‘Yep, if that’s for research, no worries.’ They give so much for us.

“I love my work. I’m inspired by the people in the hospital who try to save women and babies. I’m inspired by my colleagues who do amazing work. I want to do good research and make the people who have supported me, like Prof Permezel, Prof Walker and Prof Beischer feel they’re achieving something through me. I want them to be proud of the research we’re doing.”
University of Notre Dame Australia
Melbourne Clinical School

As part of the Notre Dame School of Medicine, Sydney, the Melbourne Clinical School (MCS) undertakes research to improve the health of people and communities by generating new knowledge to enhance clinical practice and inform health policy.

The School of Medicine has developed a research strategy with five key themes: social justice, translation and implementation, cultural awareness, partnerships and collaboration, and targeted innovation.

RESEARCH ACTIVITY
During 2013, research at the MCS focused on three key themes: primary care and prevention, rural and community, and medical education. Within the primary care and prevention theme the MCS is involved in a 20-year cohort study investigating respiratory disease aetiology and outcomes. Local community projects include studies to assess barriers to effective community care in the Wyndham region and to assess the intensive care needs of the local community. Medical education research is focused on assessing how useful current selection tools are in ensuring students selected into medical training make competent, caring and professional doctors.

RESEARCH PROJECTS
‘Tasmanian Longitudinal Health Study-TAHS’. Walters H and Kanjo E.

This asthma and respiratory health study aims to improve the understanding of the causes of chronic respiratory diseases (CRDs) in adults.


This pilot study of secondary risk factor modification for cardiovascular disease in patients in primary care identified a range of potential barriers to secondary prevention of vascular disease. These include important differences between GP and patient perspectives. The findings highlighted the importance of regular, ongoing communication and engagement between GP, allied health specialists and patients in delivering effective secondary programmes. This research was conducted in the city of Wyndham, Victoria.

Honours research projects completed 2014
Studies in areas of interest to participating honours students included community care of asthma, cardiac imaging in sarcoidosis, responses of neurons to antipsychotic medications, and comparison of patient outcomes associated with different types of hip arthroplasty.

ACADEMIC ACHIEVEMENTS
Assoc Prof Michael Dodson completed PhD. Deakin University
Dr Timothy Hewitt completed Honours in Medicine, University of Notre Dame Australia
Dr Damien Horton completed Honours in Medicine, University of Notre Dame Australia
Dr James Nadal completed Honours in Medicine, University of Notre Dame Australia
Dr Tess Maplestone completed Honours in Medicine, University of Notre Dame Australia

THESIS
Hewitt T. ‘Effect of Antipsychotic Drugs on Potassium in Rat Hippocampal CA1 Neurons’, Honours Thesis, University of Notre Dame Australia 2013 (Supervised by Dr Christopher French, Royal Melbourne Hospital).


Maplestone T. ‘The Frequency and Type of Care Received by Asthmatics in Primary Care and its Effect on Asthma Outcomes: An Exploratory Study’, Honours Thesis, University of Notre Dame Australia 2013 (supervised by Prof Haydn Walters).

Nadal J. ‘Cardiac MRI in the Assessment of Sarcoidosis’, Honours Thesis, University of Notre Dame Australia 2013 (Supervised by Assoc Prof Andrew Taylor, Alfred Hospital).
The Department of Anaesthesia provides acute care for obstetrics, gynaecology-oncology and specialist gynaecology patients in anaesthesia, perioperative care and pain management.

Several original studies were completed and presented at scientific meetings or published in peer review journals in 2013 with similar expectations for ongoing work into 2014.

RESEARCH ACTIVITY

We published a major clinically focused project in the International Journal of Obstetric Anaesthesia on assessing a weight-based dosing schedule of the anticoagulant enoxaparin on anti-Xa activity. This project was conducted in collaboration with the Perinatal Medicine Centre. The results of this work will help refine the use of medications to prevent thromboembolic complications of pregnancy.

Our primary research interest in evaluating maternal cardiac output as assessed by transthoracic echocardiography led to an oral presentation of a completed study at an prestigious international meeting. Ethics approval has been obtained for a further similar study. We also presented the results of our first study at an international meeting in London on using early warning charts to aid detection of clinical deterioration in maternity patients.

Our association with the Cochrane Collaboration continued with a major systematic review, to be published in 2014, comparing combined-spinal epidural (CSE) with spinal anaesthesia for caesarean section. Important clinical audit studies were also ongoing in the use of general anaesthesia for caesareans and the anaesthetic implications of placenta praevia. A further study to evaluate the clinical accuracy of a new device for non-invasive haemoglobin measurement compared with standard methods was completed and submitted for publication.
Health Services, Medical, Sub-Acute and Palliative Care Services

**EMERGENCY DEPARTMENT**
Werribee Mercy Hospital

The Werribee Mercy Hospital Emergency Department (WMHED) serves the people of the south-western region of Melbourne.

Most of the patients are self-referred; a further number are referred by general practitioners while others are brought in by Ambulance Victoria.

**RESEARCH PROJECTS**

*Patient demand at the Emergency Department (ED) of Werribee Mercy Hospital (WMH)*. Adeleye L.

Lateef Adeleye (Registered Nurse) is undertaking an ongoing research project on patient ages and patient flows in the Emergency Department of Werribee Mercy Hospital. This will include the Australian Triage Scale (ATS) with numbers of admissions, transfers and discharges home.

The main aim of the project is to analyse the demographics, cases, severity, length of stay, did-not-wait cases and dispositions of patients who present to WMHED. The outcomes will assist the ED management to forecast staff skill needs and improve the services to the community while containing cost.

**MERCY PALLIATIVE CARE**

Mercy Palliative Care provides multi-disciplinary palliative care to patients through inpatient and community services across the western metropolitan region of Melbourne.

The Gabrielle Jennings Centre, an inpatient unit at Werribee Mercy Hospital currently has 12 beds in which specialist palliative care is provided. In addition a hospital-based service provides outreach across the hospital giving all patients access to specialist palliative care advice.

**RESEARCH PROJECTS**

*Parents’ and music therapists’ reflections on the experience of music and music therapy for paediatric palliative care patients and their families, who come from diverse cultural backgrounds*. Forrest L, PhD at the University of Melbourne.

This study examines how families use music in their day-to-day lives and engage with music therapy in palliative care. It is a longitudinal, multisite study conducted across community palliative care services in Melbourne which provide music therapy services to children living with a life-threatening illness.

*In-hospital palliative and end-of-life care of people with diabetes mellitus at Werribee Mercy Hospital*. O’Neal D, Pisasale M, Walpole G.

This audit assessed the proportion of patients admitted to palliative care with diabetes, to: profile current practice in managing blood glucose levels and compare this with national guidelines; assess the adequacy of symptom management in patients with diabetes; and, delineate the under-recognised burden of hyperglycaemia in patients receiving corticosteroids in palliative care.
Providing care in the community

Specialist Palliative Care Nurse Kerryn Merry with patient John and his wife Jan
The department specialises in nutrition to support women’s health at all life stages.

We have introduced malnutrition screening in the gynaecological oncology and chemotherapy units, using a validated assessment tool which allows us to diagnose degrees of malnutrition. We can then devise appropriate Nutrition Care Plans and provide education as appropriate.

We have also run multiple education sessions for staff on the importance of early identification of patients at risk of malnutrition and use of the screening tool. Regular audits have also been conducted on compliance with the tool.

RESEARCH PROJECTS

‘Consumer and health professional input into the development of an m-health program’. Campbell K (Deakin University), McCarthy E (Mercy Hospital for Women), Lappas M (Mercy Hospital for Women), Wilcox J (Deakin University).

Part 1 – ‘Exploring IT usage and health information sources among pregnant women’.

A survey was completed by pregnant women recruited from antenatal clinics to assess the use of IT and access to electronic health information among pregnant women.

Part 2 – ‘Development and testing of m-health intervention model (current phase)’.

This is a feasibility study, using focus groups with women and interviews with health professionals to assess the desirability of components in the intervention and evaluate the design and feasibility of a clinical trial and broad reach delivery.

Part 3 – ‘Pilot of m-health intervention model promoting healthy gestational weight gain’.

This collaborative research project was conducted jointly by Mercy Hospital for Women and Deakin University.
OUTPATIENTS DEPARTMENT
Mercy Hospital for Women

The Outpatients Department (OPD) at Mercy Hospital for Women provides specialist clinics for antenatal gynaecology and paediatric care.

Physician, physiotherapy and perinatal mental health clinicians work collaboratively to provide specialist consultancy for our women and babies.

MEDICAL IMAGING DEPARTMENT
Mercy Hospital for Women

The Medical Imaging Department offers general radiology services.

RESEARCH PROJECTS

‘Variance in adult bone size originates before birth.’ Ho Y, Saxton V.

In 2013 the department concluded its contribution to this study, which surveyed more than 300 patients. Each patient had two scans and two analyses of each 3D data set of the femur, giving around 1200 computations.

‘Comparison of (pathological) hyperfiltration of diabetes with (physiological) hyperfiltration of pregnancy’. Ho Y, Saxton V.

This study gives 60 participants three-dimensional ultrasound examinations of their kidneys to estimate renal volume. Each patient is scanned before, during and after pregnancy. This study is nearly complete and the analysis is ongoing.

An audit looking for complications of Umbilical Vein Catheter (UVC) insertion was performed by scanning 106 patients in NICU who had a UVC inserted in the past year. Scanning was done at days 3, 14 and 42. This has shown that a liver haematoma was present in 19% of patients and calcification of the ligamentum venosum in 22%. As a result our clinical practice will now change to include regular abdominal scans to check for hematomas in patients who have had a UVC inserted.

A follow up audit of the position of the nasal gastric (NG) tube on neonatal chest x-rays was performed using the formula developed from the first audit to help get accurate NG tube positioning. This showed that there has been improvement in the NG tube position following use of the formula that was developed.

Investigators: Ho Y, Saxton V.

Dr Virginia Saxton, Medical Imaging Department.
The Multicultural Services FGM/C team

(clockwise from top left) Ms Natalija Nesvadba, Ms Suleeqa Hussein, Ms Magdalena Pliszka and Ms Wemi Oyekanmi.
MULTICULTURAL SERVICES UNIT
Mercy Hospital for Women

The Multicultural Services Unit at Mercy Hospital for Women aims to provide effective
language services which help patients overcome barriers to accessing services at
the hospital, and assist our staff to provide highest quality, equitable services.

The unit also aims to:

- develop and strengthen the provision of culturally responsive healthcare to our diverse constituency
- develop good working relationships with local ethnic communities and their representative organisations, and
- promote health literacy in our diverse community.

During 2013 we have also worked to establish multicultural services at Werribee Mercy Hospital.

RESEARCH PROJECTIONS

‘Supporting young women who have experienced female genital mutilation/cutting’ (FGM/C).

Mercy Public Hospitals Inc. (MPHI) has been funded by the Australian Government Department of Health and Ageing to undertake a qualitative review of the experiences of young women (18-25 years old) from FGM/C affected communities. The review aims to determine ways to develop, improve and deliver support services that are culturally and age appropriate while increasing understanding of FGM/C and its consequences.

Our recent experience suggests that younger migrant women who are growing up in Australia require a different approach to that for the older generation. We will consult with young women who have experienced FGM/C and other key stakeholders who are working in this area. Data collected will attempt to identify features of culturally and age appropriate support services for young women who have experienced FGM/C.

Ethics approval was obtained in September 2013.

This study is based at Mercy Hospital for Women and participants are recruited from within the hospital and the community. Interviews with participants are currently underway and transcribing and data analysis will follow by June 2014.

RESEARCH GRANTS

FGM Support Grant received from the Australian Government Department of Health and Ageing (R13/35) for ‘Supporting young women who have experienced female genital mutilation/cutting (FGM/C)’.
Werribee Mercy Hospital provides inpatient and outpatient physiotherapy services.

Mercy Public Hospitals Inc. (MPHI) participated in the Victorian Department of Health, Allied Health Assistant Implementation Project during 2013. Ms Penelope Sanderson and Ms Anne Harrison were seconded from their usual roles to lead the project.

The project aimed to identify and quantify Allied Health Professionals’ (AHPs) tasks which, in accordance with the Supervision and Delegation Framework for Allied Health Assistants (AHAs) (State of Victoria, Department of Health, 2012), could be performed safely by an AHA.

The outcomes will inform strategic allied health workforce planning at MPHI to address growing demand for allied health services.

The study has been presented at various Department of Health forums throughout the year.

MERCY HEALTH LYMPHOEDEMA SERVICES (MHLS)

MHLS provides outpatient services to men, women and children who are at risk of lymphoedema or are diagnosed with primary or secondary lymphoedema.

A multidisciplinary team consisting of medical practitioners, lymphoedema therapists, social workers, dieticians and allied health assistants provides services at clinics in East Melbourne and Heidelberg. The clinics offer assessment, education, treatment and management for patients, including a collaborative paediatric clinic which operates in conjunction with the Royal Children’s Hospital.

Staff members are strongly connected to the professional body, Australasian Lymphology Association and the Mercy Health Lymphoedema Service is well recognised nationally and internationally.

RESEARCH ACTIVITY

Ms Jane Phillips is enrolled in a Graduate Certificate in Research Methods through James Cook University and has begun collecting data for a reliability study for objective measurement of lymphoedema.

RESEARCH PROJECTS

‘Establishing the reliability of circumferential measurements and the digital tonometer/ Electronic Indurometer in assessment of lower limb primary lymphoedema.’ Phillips, J.
Mercy Health O’Connell Family Centre (OFC) is focused on the needs of vulnerable families and young children.

We continue to improve access for vulnerable families within the DHS eastern region, and where appropriate throughout Victoria as a state-wide service provider.

Currently OFC has a strong focus on the role of fathers in the family unit and presented a paper at the Marcé Society conference held in Melbourne 10-12 October. The Marcé Society is a multidisciplinary forum for exchanging information and ideas between professionals concerned with the welfare of women and their families around the time of childbirth.

This year we introduced a mental health screening measure for all admitted fathers, the Depression Anxiety and Stress Scale (DASS). Data to date from 84 fathers has showed scores of ‘moderate’ or above for 8.3% of fathers for depression, 14.3% for anxiety and 19.0% for stress. This highlights the need for support and interventions for fathers, as well as mothers, in their roles as parents.
**Health Services, Mental Health Services Program**

**PERINATAL MENTAL HEALTH UNIT**
Mercy Hospital for Women

**Perinatal Mental Health continues to provide clinical services to Mercy Hospital for Women and undertake research through clinical affiliations in the hospital.**

Of particular note is the joint clinic with perinatal medicine for the antenatal care of women with schizophrenia and bipolar disorder, and with paediatrics for women with borderline personality disorder in the antenatal clinics. Planning has also begun for the new Centre for Maternal and Early Family Mental Health. This groundbreaking service will deliver innovative and collaborative mental healthcare to women experiencing severe mental illness in the antenatal period and their families. Specific research into depression across pregnancy and the safety of antidepressants is ongoing through the department.

The unit collaborates nationally and internationally on research with MCRI, University of Melbourne, Deakin University, University of Sydney and Leiden University in the Netherlands. This year Assoc Prof Megan Galbally was President of the Australasian Marcé Society.

**RESEARCH ACTIVITY**

Assoc Prof Megan Galbally and collaborators from Deakin University, MCRI and University of Melbourne have continued the Mercy Pregnancy and Emotional Wellbeing Study funded by a National Priority Research Grant from Beyond Blue. This study has been made possible through coordination by Dr Nicole Brooks and Tina Viano and significant assistance from a number of postgraduate psychology students from Deakin University.

Assoc Prof Galbally and Dr Gaynor Blankley co-convened the recent Australasian Marcé Conference in Melbourne and hosted two delegates, internationally renowned researchers Professor Doug Teti and Professor Tim Oberlander. Dr Martien Snellen continues clinical care for pregnant women with schizophrenia and bipolar and collection of data to review the care model. This data was presented by Dr Snellen and Dr Jo Power as a workshop at the conference.

The perinatal mental health department has continued to contribute book chapters, journal publications and presentations at national and international conferences. Dr Gaynor Blankley continues to develop collaborative research into pregnancy and borderline personality disorder, completing a book chapter on this topic. Dr Snellen has also completed a book chapter on bipolar disorder in pregnancy. Assoc Prof Galbally, Dr Snellen and Assoc Prof Andrew Lewis have completed an edited book from Springer on psychopharmacology in pregnancy with chapters contributed by eminent authors from Australia, USA, UK, Canada, Italy and Austria.

**RESEARCH PROJECTS**

- ‘Early intervention to ensure the optimal developmental environment for the children of bipolar mothers’. Galbally M, Snellen M, Boyce P, Power J.

**ACADEMIC ACHIEVEMENTS**


External grant reviewer for NHMRC and Wellbeing of Women Grant (RCOG).
Perinatal Mental Health team

Dr Martien Snellen and Assoc Prof Megan Galbally
The Mercy Health HREC and the Expedited Review Working Party reviewed 73 new research projects in 2013, as well as 139 progress reports.

### RESEARCH PROJECTS

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LEADER</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘NEST’: A randomised controlled trial comparing the treatment of electrographic and clinical seizures to the treatment of clinical seizures alone, in term or near term encephalopathic infants and measuring the impact on death and neurodevelopment at two years.</td>
<td>Dr Rod Hunt, Royal Children’s Hospital</td>
</tr>
<tr>
<td>‘Outbreak Investigation using high throughput genome sequencing within the diagnostic microbiology laboratory’.</td>
<td>Assoc Professor Benjamin Howden, Director of Microbiology, Austin Health</td>
</tr>
<tr>
<td>‘Cancer supportive care screening - patient survey.’</td>
<td>Dr Catherine Corrick, Mercy Hospital for Women/North Eastern Melbourne Integrated Cancer Service</td>
</tr>
<tr>
<td>‘Cancer supportive care screening - staff survey.’</td>
<td>Dr Catherine Corrick, Mercy Hospital for Women/North Eastern Melbourne Integrated Cancer Service</td>
</tr>
<tr>
<td>‘Chronic lung disease in the preterm neonate: Cytokine profile analysis.’</td>
<td>Dr Friederike Beker, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Coping strategies of nursing and medical staff in NNICU in response to death of neonates and correlation between this and perceptions of stress levels as well as experiences in close relationships.’</td>
<td>Dr Josephine Topp, Mercy Perinatal Mental Health</td>
</tr>
<tr>
<td>‘Lymphoedema as predictor of metastatic spread patients diagnosed with breast cancer.’</td>
<td>Mr Damien Grinsell, Royal Australasian College of surgeons</td>
</tr>
</tbody>
</table>

The Mercy Health Board appointed three new members to the Mercy Health HREC in June 2013, increasing the HREC to 17 members. These are:

- Prof Stephen Tong, University of Melbourne Department
- Assoc Prof David O’Neal, Clinical Services Director Medical, Subacute and Palliative Care Services
- Ms Wendy Brooks, layperson.

Prof John Ozolins continues as Chair of Mercy Health HREC.

Mr Paul Drinkwater retired from Mercy Health and Mercy Health HREC in December 2013.
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LEADER</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘Release of patient information as part of an evaluation of immunohistochemistry (IHC) as a screening test for Lynch syndrome in women with uterine cancer diagnosed at or before age 70.’</td>
<td>Dr Marsali Newman, Austin Health</td>
</tr>
<tr>
<td>‘Telehealth for optimising asthma management during pregnancy.’</td>
<td>Dr Johnson George, Centre for Medicine Use and Safety, Monash University</td>
</tr>
<tr>
<td>‘Audit of prophylactic bilateral salpingo-oophorectomy specimens in a high-risk patient population.’</td>
<td>Dr Marsali Newman, Austin Health</td>
</tr>
<tr>
<td>‘Understanding interstitial cajal-like cells in the uterus and their correlation with gynaecological symptoms. A retrospective study.’</td>
<td>Assoc Prof Sonia Grover</td>
</tr>
<tr>
<td>‘Failed regional blocks in a tertiary maternity service: a 12-month audit.’</td>
<td>Clinical Assoc Prof Scott Simmons, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Analysis of sodium levels in the neonatal intensive care unit.’</td>
<td>Dr James Holberton, NICU, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘The Australian and New Zealand Stillbirth Alliance (ANZSA) Research Consortium for the investigation of stillbirths.’</td>
<td>Assoc Prof Vicki Flenady, Mater Medical Research Institute, South Brisbane</td>
</tr>
<tr>
<td>‘Measuring the impact of infant care at sleep transition. (Monitoring effects on infant stress regulations when exposed to response based settling interventions at the O’Connell Family Centre).’</td>
<td>Assoc Prof Wendy Middlemiss, University of North Texas</td>
</tr>
<tr>
<td>‘Text message reminder to increase influenza vaccination during pregnancy in women booked for pregnancy and birth care at Mercy Hospital for Women.’</td>
<td>Dr Elizabeth McCarthy, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Treating early onset severe preeclampsia with Pravastatin. An early phase clinical trial.’</td>
<td>Prof Stephen Tong, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Milk donation after neonatal death.’</td>
<td>Ms Katherine Carroll, University of Technology, Sydney</td>
</tr>
<tr>
<td>‘Evaluation of Pregnancy Associated Plasma Protein -A (PAPPA) as a regulator of IGF activity in melanoma progression.’</td>
<td>Prof Jonathan Cebon, Austin Health</td>
</tr>
<tr>
<td>‘A retrospective review of undiagnosed breech at the Mercy Hospital for Women.’</td>
<td>Dr Laurel Bennett, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Laboratory project investigating preeclampsia and ectopic pregnancy using samples obtained under Tissue Bank ethics. (Research R11/34).’</td>
<td>Prof Stephen Tong, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Establishing the reliability of circumferential measurements and the digital tonometer in assessment of lower limb primary lymphoedema.’</td>
<td>Ms Jane Phillips, Mercy Health Lymphoedema Clinic</td>
</tr>
<tr>
<td>‘Investigation of MSD toolkit and hazard measures in relation to claim rates and other indicators.’</td>
<td>Dr Jodi Oakman, Centre for Ergonomics and Human Factors, La Trobe University</td>
</tr>
<tr>
<td>PROJECT</td>
<td>LEADER</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>'Beaded Beginnings – creating memories as keepsakes to help parents</td>
<td>Ms Nicole Harwood,</td>
</tr>
<tr>
<td>acknowledge and celebrate milestones of their baby's journey through</td>
<td>Mercy Hospital for Women</td>
</tr>
<tr>
<td>the NICU.'</td>
<td></td>
</tr>
<tr>
<td>'Randomised controlled trial to compare TVT and Monarc suburethral</td>
<td>Dr Lore Sciérilitz,</td>
</tr>
<tr>
<td>sling procedure in women with urodynamic stress incontinence and</td>
<td>Mercy Hospital for Women</td>
</tr>
<tr>
<td>intrinsic sphincter deficiency. A five-year follow-up. (Related to</td>
<td></td>
</tr>
<tr>
<td>R04/04).</td>
<td></td>
</tr>
<tr>
<td>'Exploratory study of breast milk expression, storage and transport by</td>
<td>Dr Ranmali Rodrigo,</td>
</tr>
<tr>
<td>women whose infants are inpatients in the neonatal unit of Mercy Hospital</td>
<td>Mercy Hospital for Women</td>
</tr>
<tr>
<td>for Women. (Bringing in milk from home: An exploratory study).'</td>
<td></td>
</tr>
<tr>
<td>'Surgical management of recurrent pelvic organ prolapse: Comparing</td>
<td>Dr Lin Li Ow, Medical Trainee,</td>
</tr>
<tr>
<td>Native Tissue Repair to Mesh Augmented Repair.'</td>
<td>Sunshine Hospital</td>
</tr>
<tr>
<td>'Working Smarter with Allied Health Assistants: The identification of</td>
<td>Ms Anne Harrison,</td>
</tr>
<tr>
<td>Allied Health Professionals tasks which could be safely undertaken by</td>
<td>Werribee Mercy Hospital</td>
</tr>
<tr>
<td>Allied Health Assistants.'</td>
<td></td>
</tr>
<tr>
<td>'Staging, Adjuvant treatment and tumour recurrences of uterine papillary</td>
<td>Dr Fraukje Pol,</td>
</tr>
<tr>
<td>serous carcinomas. A single institution review of 62 women.'</td>
<td>Mercy Hospital for Women</td>
</tr>
<tr>
<td>'Effects of pregnancy and lactation on bone structure (follow-up of</td>
<td>Prof Ego Seeman,</td>
</tr>
<tr>
<td>R07-46).'</td>
<td>Austin Health</td>
</tr>
<tr>
<td>'The use of intra-transport phototherapy in neonates with unconjugated</td>
<td>Dr Michelle Waterham,</td>
</tr>
<tr>
<td>hyperbilirubinaemia transported by the Newborn Emergency Transport</td>
<td>NETS, Royal Children's Hospital</td>
</tr>
<tr>
<td>Service (NETS), Victoria.'</td>
<td></td>
</tr>
<tr>
<td>'Unpacking advocacy in contemporary nursing.'</td>
<td>Prof Sally Welland,</td>
</tr>
<tr>
<td></td>
<td>Ballarat University</td>
</tr>
<tr>
<td>'Consumer and health professional input into the development of an</td>
<td>Assoc Prof Karen Campbell/</td>
</tr>
<tr>
<td>m-health program targeting health gestational weight gain (txt4two).</td>
<td>Ms Jane Willcox,</td>
</tr>
<tr>
<td></td>
<td>Deakin University</td>
</tr>
<tr>
<td>'A prospective evaluation of the impact of the nurse practitioner role</td>
<td>Prof Glenn Gardner,</td>
</tr>
<tr>
<td>on emergency department service and outcomes (EDPRAC) at Mercy</td>
<td>Queensland University of Technology</td>
</tr>
<tr>
<td>Hospital for Women and Werribee Mercy Hospital.'</td>
<td></td>
</tr>
<tr>
<td>'Outcomes of neonates receiving nasal CPAP in a level 2 hospital from</td>
<td>Ms Helen Patterson,</td>
</tr>
<tr>
<td>2010 to 2012. A clinical audit.'</td>
<td>Werribee Mercy Hospital</td>
</tr>
<tr>
<td>'Evaluation of factors associated with medical inpatient stay duration</td>
<td>Assoc Prof David O’Neal,</td>
</tr>
<tr>
<td>of diabetic patients admitted to a community hospital (Werribee Mercy</td>
<td>Werribee Mercy Hospital</td>
</tr>
<tr>
<td>Hospital).'</td>
<td></td>
</tr>
<tr>
<td>'High-flow cannulae as primary support in the treatment of early</td>
<td>Dr Calum T. Roberts,</td>
</tr>
<tr>
<td>respiratory distress (The HIPSTER Trial).'</td>
<td>Royal Women's Hospital</td>
</tr>
<tr>
<td>'Supporting young women who have experienced female genital</td>
<td>Ms Natalija Nesvadba,</td>
</tr>
<tr>
<td>mutilation/cutting (FGM/C).'</td>
<td>Mercy Hospital for Women</td>
</tr>
<tr>
<td>'The effect of test positions on the assessment of pelvic floor muscle</td>
<td>Dr Cristine Hornsi Jorge Ferreira/</td>
</tr>
<tr>
<td>activity in symptomatic and post-surgical women.'</td>
<td>Dr Helena Frawley,</td>
</tr>
<tr>
<td></td>
<td>Mercy Hospital for Women</td>
</tr>
<tr>
<td>PROJECT</td>
<td>LEADER</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>‘Nurses’ survey of women’s experience who have had laser or LLETZ treatment.’</td>
<td>Denise Heys, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Massive Transfusion Registry (MTR).’</td>
<td>Dr Amanda Zatta, Massive Transfusion Registry, Monash University/Alfred Hospital</td>
</tr>
<tr>
<td>‘INCB 24360-10. A randomised, open-label, Phase 2 study of the IDO inhibitor INCB024360 versus Tamoxifen for subjects with biochemical-recurrent-only epithelial ovarian cancer, primary peritoneal carcinoma or fallopian tube cancer following remission.’</td>
<td>Dr Linda Mileshkin, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Use of a multimedia module in antenatal education for epidural anaesthesia in labour.’</td>
<td>Dr Jacinta Carty, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘The use of a multimedia module to aid the informed consent process in patients undergoing elective caesarean section. A pilot study.’</td>
<td>Dr Alice Trong, Obstetric HMO</td>
</tr>
<tr>
<td>‘First time mothers in Victoria – a pilot cohort study.’</td>
<td>Dr Mary-Ann Davey, La Trobe University</td>
</tr>
<tr>
<td>‘The epidemiology and genetics of the infantile epileptic encephalopathies.’</td>
<td>Dr Katherine Howell, Royal Children’s Hospital</td>
</tr>
<tr>
<td>‘End-of-Life Care Pathways Project.’</td>
<td>Ms Kirsten Mitchener, Project Officer, Mercy Health Aged Care</td>
</tr>
<tr>
<td>‘Current guidelines for thrombophilia and bleeding disorder testing in women: Are the right women being tested? An audit of MHW experience.’</td>
<td>Assoc Prof Sonia Grover</td>
</tr>
<tr>
<td>‘Transthoracic echocardiographic assessment of cardiac output in healthy women at elective caesarean section under spinal anaesthesia with ephedrine hypotension prophylaxis: an observational cohort study.’</td>
<td>Clinical Assoc Prof Scott Simmons, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘The ROC Study: Comparing the effectiveness of an innovative and comprehensive new eye care model with usual care for individuals in Residential Care Facilities. Multicentred, prospective and randomised controlled clinical trial.’</td>
<td>Assoc Prof Ecosse Lamoureux, Centre for Eye Research Australia</td>
</tr>
<tr>
<td>‘Using the smell and taste of milk to improve milk tolerance and the growth of preterm infants.’</td>
<td>Dr Friederike Beker, Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘Non-invasive prenatal testing for fetal aneuploidy in Australia and New Zealand - a survey of obstetric sonologists.’</td>
<td>Dr Lisa Hui, Department of Perinatal Medicine Mercy Hospital for Women</td>
</tr>
<tr>
<td>‘In-hospital palliative and end-of-life care of people with diabetes mellitus at Werribee Mercy Hospital.’</td>
<td>Assoc Prof David O’Neal, Werribee Mercy Hospital</td>
</tr>
<tr>
<td>‘Evaluation of pre-admission consultations at Mercy Health O’Connell Family Centre’</td>
<td>Assoc Prof John D Whyte, RMIT</td>
</tr>
<tr>
<td>‘The Australian Cervical Cancer Typing Study (ACCTS).’</td>
<td>Dr Marsali Newman, Austin Health</td>
</tr>
</tbody>
</table>
In Print and Online

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY
University of Melbourne/Mercy Hospital for Women


<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Journal</th>
<th>Year</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaitu'u-Lino T, Bambang K, Onwude J, Hiscock R, Konje J, Tong S.</td>
<td>Plasma MIC-1 and PAPP-A levels are decreased among women presenting to an Early Pregnancy Assessment Unit, have fetal viability confirmed but later miscarry.</td>
<td>PLOS One 2013; 8(9): e72437.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Publication Details</th>
</tr>
</thead>
</table>

**MIDWIFERY PROFESSORIAL & PROFESSIONAL DEVELOPMENT & RESEARCH UNITS (NURSING AND MIDWIFERY)**

Mercy Hospital for Women

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Publication Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barker HM, Simmons SW, Hiscock, RJ, Cyna AM, McDonald SJ.</td>
<td>Time to achieve comfort from labour epidural analgesia.</td>
<td>Anaesthesia and Intensive Care (accepted Nov 2013).</td>
</tr>
</tbody>
</table>
Midwifery Professional & Professional Development & Research Units
(Nursing and Midwifery) cont’d


**DEPARTMENT OF GYNAECOLOGICAL ONCOLOGY**

Mercy Hospital for Women


**DEPARTMENT OF ENDO SURGERY**

Mercy Hospital for Women


**DEPARTMENT OF PAEDIATRICS**

Mercy Hospital for Women


Watkins A. Perinatal Palliative Care: religious and cultural aspects of decision making. Melbourne University Master’s Course: Palliative Care July 2013.

Watkins A. The place of perinatal palliative care PSANZ Perinatal Palliative Care Special Interest Group, Royal Children’s Hospital July 2013.


**DEPARTMENT OF ANAESTHESIA**

Mercy Hospital for Women


**DEPARTMENT OF SURGERY**  
Werribee Mercy Hospital


**MERCY PALLIATIVE CARE**


**MEDICAL IMAGING DEPARTMENT**  
Mercy Hospital for Women


**PERINATAL MENTAL HEALTH UNIT**  
Mercy Hospital for Women


Galbally M, Lewis A. Prenatal exposure is associated with small but significant differences in pregnancy and delivery outcomes (commentary). *Evidence Based Mental Health* 2013; 16(3): 89.

Galbally M. Pregnancy, Mental Illness, Interventions and Outcome: Implications for Clinical Practice. *Archives of Women’s Mental Health* 2013; 16 (Supplement 1): s51-53.


**UROGynaecology DEPARTMENT**  
Mercy Hospital for Women


Conferences and Presentations

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY
University of Melbourne/Mercy Hospital for Women

60th Annual Meeting of the Society of Gynecologic Investigation, Orlando, March 2013
'Dietary phytophenols as potential therapeutics in preventing infection/inflammation-induced preterm birth.' Lim R, Wall C, Barker G, Lappas M.

'Nucleotide oligomerization domain 1 (NOD1) and NOD2 regulate mediators of fetal membrane rupture: Implications for preterm birth.' Lim R, Lappas M.

'Differential expression of Lin28 and Let-7 in term gestational tissue.' Chan H-W, Lappas M, Yee SWY, Vaswani K, Mitchell MD, Rice GE.

'Measuring circulating RNA transcripts coding growth factors to detect fetal growth restriction.' Whitehead C, Walker SP, Mendis S, Tong S.


'The production of sFlt-1 splice variants is regulated by Jumonji domain containing protein 6 (Jmjd6) in the placenta.' Palmer K, Kaitu'u-Lino TJ, Ye L, Tuohey L, Tong S.

'RNASEq and Microarray Analyses Highlight Different Aspects of the Fetal Transcriptome'. Zwemer LM, Hui L, Wick HC, Bianchi DW.

'Decreased apoptosis in fetuses of obese women: implications for neurodevelopment.' Edlow A, Vora N, Hui L, Wick HC, Cowan J, Bianchi DW.

'Pregnancy outcomes before and after institution of specialised Twins Clinic care.' Henry A, Lees N, Bein K, Hall B, Lim V, Chen K, Welsh A, Hui L, Shand AW.

The Australian and New Zealand Obesity Society (ANZOS), Melbourne, October 2013
'Gestational weight gain: Women's views, knowledge and information seeking.' Willcox J, Campbell K, McCarthy E, Lappas M, Ball K, Crawford D, Shub A, Wilkinson S.

9th Annual Conference of US HUPO: from genes to function, Baltimore, Maryland, March 2013
'Biomarkers in human cervicovaginal fluid to predict labour.' Heng J, Liong S, Permezel M, Rice GE, Di Quinzio MKW, Georgiou HM.

SOMANZ (Society of Obstetric Medicine Australia and New Zealand), October 2013
'Emergence of new generation therapies for severe preeclampsia.' Tong S.

Monash Health Translational Precinct, September 2013
'Translating molecular diagnostics and therapeutics for major pregnancy complications.' Tong S.

Sunshine Hospital, Sunshine, Victoria, April 2013
'Diagnostic test to identify fetuses critically hypoxic: the FOX study.' Tong S.

33rd Annual Meeting of the Society for Maternal-Fetal Medicine, San Francisco, February 2013
'Functional transcriptomic analysis of term amniotic fluid (AF) cell-free RNA: a window into fetal maturation.' Hui L, Wick HC, Edlow A, Cown J, Bianchi DW.

University of Sydney Discipline of Obstetrics, Gynaecology and Neonatology symposium, Sydney, July 2013
'Global gene expression analysis of amniotic fluid cell-free RNA from recipient twins with severe twin-twin transfusion syndrome.' Hui L, Wick HC, Moise K, Johnson A, Luks F, Haeri S, Johnson K, Bianchi DW.
Department Obstetrics and Gynaecology cont’d

‘Amniotic fluid cell-free RNA: a novel source of information about human development.’ Hui L.

RANZCOG Membership revision course, Melbourne, August 2013
‘Non-invasive prenatal testing for fetal aneuploidy.’ Hui L.

Victorian Obstetric Sonologists meeting, Melbourne, March 2013
‘Advances in non-invasive assessment of the fetal genome.’ Hui L.

RANZCOG ASM, Sydney, September 2013

23rd World Congress on Ultrasound in Obstetrics and Gynaecology, Sydney, October 2013
Pre-congress: ‘Prenatal Screening and Diagnosis of Aneuploidy course ISUOG: sequencing for non-invasive prenatal testing – techniques, technologies, applications and limitations.’ Hui L.

RANZCOG Victorian Regional Committee annual symposium, Melbourne, October 2013
‘Noninvasive prenatal diagnosis for fetal aneuploidy.’ Hui L.

MIDWIFERY PROFESSORIAL & PROFESSIONAL DEVELOPMENT & RESEARCH UNITS (NURSING AND MIDWIFERY)

Australian College of Critical Care Nurses 14th Institute of Continuing Education Critical Care Nursing, Brisbane, June 2013
‘Obstetric haemorrhage.’ Pollock W, invited speaker.

33rd International Symposium on Intensive Care and Emergency Medicine, Brussels, March 2013
‘Massive blood transfusion for obstetric haemorrhage.’ Simmons S, Pollock WE; Phillips L; McDonald S.

17th Annual Congress, Australian and New Zealand Perinatal Society (PSANZ) Adelaide, April 2013
McDonald SJ, Pollock W.

IMPACT Conference, Adelaide, April, 2013
McDonald SJ.

Australian New Zealand Stillbirth Alliance Meeting and Workshop, Adelaide, April 2013
McDonald SJ.

Health Roundtable Innovation Awards Conference, Brisbane, November 2013
‘Improving delivery and care in high risk pregnancies.’ McDowell R.
‘Presentation Ultrasound: a learning package for midwives.’ Bardien N.

ISUOG conference, Sydney, October 2013
‘Fetal growth trajectory and cerebral autoregulation during third trimester.’ Bardien N (presented by Walker SP).

MFM Colloquium, Sydney, 5 October 2013
‘Prenatal screening debate: first trimester screening is dead – long live first trimester screening.’ Hui L.

Health Roundtable Innovation Awards Conference, Brisbane, November 2013
‘Improving delivery and care in high risk pregnancies.’ McDowell R.
‘Presentation Ultrasound: a learning package for midwives.’ Bardien N.

Walker SP; World Congress Fetal Medicine, Malaga, June 2013; PSANZ Perinatal Palliative Care Conference, Melbourne, July 2013; Catholic Health Australia Conference, August 2013; Philanthropy in Medicine, Melbourne, August 2013; MRANZCOG Refresher Course, Melbourne, August 2013; RANZCOG Annual Scientific Meeting, Sydney, September 2013; International Society of Obstetric and Gynaecological Ultrasound, October 2013; Sleep Downunder: Annual Scientific Meeting, October 2013; University of Melbourne Strategic Leadership Symposium, October 2013; Ritchie Centre Monash University Sleep Symposium, Melbourne, November 2013.

Midwifery Seminar ‘Caring for mothers and babies with risk factors’, Melbourne, March 2013
‘Antenatal screening.’ Pidd D.
‘Obesity in pregnancy.’ McDowell R.
‘Late onset IUGR.’ Bardien N.

International Urogynecology Association, Dublin, May 2013
‘Conservative management of incontinence.’ Thomas E.

Christine Murray Continence Foundation of Australasia, Perth, October 2013
‘Evaluation of a perineal clinic: a survey of women’s experiences.’ Thomas E.

Health Round Table and Women’s Hospitals Australasia, April 2013
‘Project PPH’, ‘The Joint Maternity meeting.’ Williamson A and Sloggett D.

Catholic Health Australia Nursing Symposium, Sydney, October 2013
‘Graduate Pool: a workforce solution.’ Capron S.
‘Triage of pregnant women in Emergency Departments.’ McCarthy M.
‘Health Information Services Results.’ Pidd D.
‘Nursing & Midwifery Professional Development program: cost benefit.’ Patrick A.
National Infection Control Conference, Queensland, October 2013
‘Turning the tide increasing influenza immunisation uptake.’ Somerville M.


DEPARTMENT OF GYNAECOLOGICAL ONCOLOGY
Mercy Hospital for Women

GP Update seminar Mercy Hospital for Women, April 2013
‘Genetics and gynaecological Cancer.’ Grant P.

RANZCOG Diploma Update course, February 2013
‘Overview of gynaecological oncology.’ Grant P.

Division of Palliative Care University of Toronto, Princess Margaret Hospital, Toronto Sept 2013
‘Corticosteroids and conservative management of malignant small bowel obstruction.’ Grant P.

2013 ASCCP Colposcopy Course, Gold Coast, August 2013
Allen D, invited speaker and chair of sessions.

2013 ASCCP Laser and LLETZ Treatment Workshop, Melbourne, October 2013
Allen D, speaker and facilitator.

ASCCP Scientific Meeting, Wellington, May 2013
Allen D, facilitator and session chair.

GP Update Seminar Mercy Hospital for Women, Melbourne, April 2013
‘Obesity and cancer.’ Lamont J.

DEPARTMENT OF UROGYNAECOLOGY
Mercy Hospital for Women

International Urogynaecological Association Annual Scientific Meeting, Dublin 2012

‘A prospective study of sexual wellbeing at 12 months post partum. Does mode of delivery matter?’ De Souza A, Dwyer PL, Thomas E, Charity M, Schierlitz L.

‘A prospective study of sexual wellbeing and the effects of breastfeeding, depression and maternal BMI 12 months postpartum.’ De Souza A, Dwyer PL, Thomas E, Charity M, Schierlitz L.

‘Outcomes of patients who declined randomization to Miniarc versus Monarc: a retrospective study.’ Young N, Rosamilia A, Lee J.

UGSA Annual Scientific and General Meeting, Sydney, March 2013
‘A prospective study of sexual wellbeing at 12 months postpartum: does mode of delivery matter?’ De Souza A, Dwyer PL, Thomas E, Charity M, Schierlitz L.

‘A prospective study of sexual wellbeing and the effects of breastfeeding, depression and maternal BMI 12 months postpartum.’ De Souza A, Dwyer PL, Thomas E, Charity M, Schierlitz L.

22nd National Conference on Incontinence, Perth, October 2013
‘Evaluation of a perineal clinic: a survey of women’s experiences.’ Thomas E, McDonald S, Pollock W.

AGES Pelvic Floor Sydney, August 2013
<table>
<thead>
<tr>
<th>Event</th>
<th>Title</th>
<th>Location</th>
<th>Year</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beijing Obstetrics and Gynecological Hospital, Beijing</strong></td>
<td>Maher P, Visiting Professor.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AAGL 42nd Global Congress on Minimally Invasive Gynecology, Washington DC, November 2013</strong></td>
<td>‘How extensive and radical should we be in the treatment of endometriosis?’</td>
<td>Maher P, invited faculty.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AGES XXIII Annual Scientific Meeting: The pelvis in pain, Brisbane, March 2013</strong></td>
<td>‘The first cut is the deepest.’; ‘Surgeons should retire at 50’ – against. (presidential debate).</td>
<td>Maher P, invited faculty; Chairperson Dan O’Connor Lecture.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>University of Notre Dame Australia</strong></td>
<td><strong>Melbourne Clinical School</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AMEE, Prague, Czech Republic, August 2013</strong></td>
<td>‘The validity of the multiple mini-interview.’</td>
<td>Dodson M.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Research Development Workshop, Auburn Clinical School, 2013</strong></td>
<td>‘Medical Education Research’, Dodson M.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Annual Scientific Meeting of Association of Anaesthetists of Great Britain and Ireland, Dublin, September 2013</strong></td>
<td>‘Transthoracic echocardiographic assessment of cardiac output in healthy women at elective caesarean section under spinal anaesthesia: An observational cohort study.’</td>
<td>Gough T, Casey E, Hiscock R, Simmons S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Annual Scientific Meeting of Australian and New Zealand College of Anaesthetists, Melbourne, May 2013</strong></td>
<td>‘Failed regional blocks in a tertiary maternity service: a 12-month audit.’</td>
<td>Liesegang, H, Simmons S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maternity and Newborn Clinical Network Victoria, Melbourne, February 2013</strong></td>
<td>‘Early warning scores in maternity settings.’</td>
<td>Simmons S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Annual Scientific Meeting of Australian and New Zealand College of Anaesthetists, Melbourne, May 2013</strong></td>
<td>‘Classifying caesarean section urgency – evolution or revolution?’</td>
<td>Simmons S.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**MERCY PALLIATIVE CARE**

12th Australian Palliative Care Conference, Canberra, September 2013

‘Parents’ and music therapists’ reflections on the experience of music and music therapy for paediatric palliative care patients and their families, who come from diverse cultural backgrounds.’ Forrest L.

‘Music therapy to support families through multiple child losses: considerations and challenges.’ Forrest L.

‘Too many to even think about’. Health Promoting Palliative Care – Christmas Tree of Remembrance in a Multicultural Community.’ Lee S.

New Zealand School of Music Biennial Conference, Linking cultures: Collaborative partnerships in music therapy & related disciplines. Te Ara Hihiko, Massey University, Wellington, November 2013

‘Music therapy to support families caring for a child in palliative care: considerations and challenges.’ Forrest L.

‘Linking culture, music and palliative care: Reflections on the experience of music and music therapy for paediatric palliative care patients and their families, who come from diverse cultural backgrounds.’ Forrest L.

**O’CONNELL FAMILY CENTRE**

Australasian Association of Parenting & Child Health (the Association) 2013 Forum, Perth, November 2013

The Association is made up of the early parenting services throughout each state of Australia and Plunkett in New Zealand. The two-and-a-half day forum provided an opportunity for senior clinicians and management staff from all member organisations to share current practices, initiatives and projects and develop the Business Plan for the Association for the next two years.

Health Round Table, Brisbane, November 2013

‘Improving the Paediatric Patient Journey: Supporting Parents’. Angerer S.

**MERCY HEALTH LYMPHOEDEMA SERVICES (MHLS)**

14th National Breast Care Nurses Conference, Melbourne, March 2013

‘Managing breast lymphoedema – variation in presentation.’ Grabsch S.

International Congress of Lymphology, Rome, September 2013

‘Conservative Management of Lymphoedema in Children – A Systematic Review.’ Phillips J.

**OUTPATIENTS DEPARTMENT**

Mercy Hospital for Women

Perinatal Society of Australia and New Zealand 17th Annual Congress, Adelaide Convention Centre, Adelaide, April 2013

‘Comprehensive initial antenatal assessment and physical examination by midwives: a pilot mentor supported education program and evaluation.’ Pidd D.

Catholic Health Australia Nursing Symposium, Crowne Plaza, Sydney, October 2013

‘We all want results: a collaborative redesign project expediting the filing of results.’ Pidd D.
**NUTRITION AND DIETETIC DEPARTMENT**
Mercy Hospital for Women

- Annual Dietitians’ Association of Australia National Conference, Canberra, May 2013
- Australasian Diabetes in Pregnancy Association Conference, Sydney, August 2013
  ‘To weigh or not to weigh? Obesity and consequences in pregnancy’. Moshonas N. and McCarthy E.

**MULTICULTURAL SERVICES UNIT**
Mercy Hospital for Women

- Social Determinants of Health Conference, Sydney, December 2013
  ‘Addressing the complexities of multicultural health.’
  Nesvadba N, invited speaker.

**MEDICAL IMAGING DEPARTMENT**
Mercy Hospital for Women

- International Society for Ultrasound in Obstetric and Gynecology World congress in Sydney, 2013
  ‘Midtrimester diagnosis of unilateral cerebellar hypoplasia due to antenatal venous sinus thrombosis.’ Davies B, Stone K, Hennington L, Hiew C, Walker SP, Fung AM.
- 2013 Australian Sonographers Association annual congress
  ‘Ultrasound of the fetal brain: a guide to the 18-22 week Morphology scan.’ Stewart E.
- Annual combined ASUM and ASA case study night
  ‘Faulty fetal family jewels.’ Stewart E.

**PERINATAL MENTAL HEALTH UNIT**
Mercy Hospital for Women

- Australasian Marcé Conference, Melbourne, October 2013
  ‘Management of Schizophrenia and Bipolar Disorder in Pregnancy: Pilot Data and Recommendations for Care.’
  Galbally M, Blankley G, Power J, Snellen M.
  ‘Informed Consent in Pregnancy.’ Snellen M.

- Indian Psychiatric Society, Bangalore, January 2013
  Snellen M.

**HUMAN RESEARCH ETHICS COMMITTEE (HREC)**

- Australian Ethics Network Conference, Perth, November 2013
  Prof Ozolins attended the conference on behalf of Mercy Health HREC.