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The Australian Medical Research and Innovation Strategy, the Queensland Department of Health and the Metro South Health Strategic Plan recognises the need for our healthcare organisations to be innovative and ready to respond to current and future health-care challenges.

Healthcare organisations that embrace research and innovation have been shown to directly result in a variety of beneficial outcomes for patients, staff and the community. Research and innovation can contribute to health system safety and quality, ensures the effectiveness of health interventions, and enables our community to develop better methods of preventing and treating disease.

The Logan and Beaudesert Hospitals support locally led, world standard research and innovation to meet our community’s current and future healthcare challenges. Our highest goal as health care professionals is to contribute to the wellbeing of the Logan community by providing our patients with excellence in healthcare.

Over the last 12 months, we have noticed increased investigator-initiated and locally led multi-disciplinary research and innovative activities within our organisation. Many Logan Hospital researchers and innovators possess an outstanding reputation within the research and healthcare community and have made a difference locally and globally.

This report is the inaugural formal publication of research activities in 2017 and celebrates the achievements of our research individuals and teams.
Message from Acting Chair, MSH Centres for Health Research
Professor Tim Geraghty

While historically much of the Metro South Health (MSH) research activity may have been seen to be centred around Princess Alexandra Hospital (PAH), this situation has been gradually changing over the past few years as is evidenced by the plethora of research publications in this report. Logan Hospital is at the forefront of this change and I would like to congratulate all Logan staff involved in research (across a very wide variety of disciplines and departments) as well as the Logan Research Advisory Committee in enabling the significant increases in research activity that has occurred in recent times and on the publication of this first Research Annual Report.

MSH has a strong commitment to enable and facilitate research excellence within Logan Hospital. The inaugural MSH Research Strategy is currently in development and we expect that this strategy will address the need to recognise, support and develop research activity across all MSH facilities.

Congratulations and keep researching!
The inaugural Research Report is an excellent display of the evolution of research within Logan and Beaudesert Hospitals; its completion is a key milestone. The Report acknowledges the achievements of researchers across our hospitals from the intrepid and novice researcher to the most advanced. It provides an opportunity for internal and external stakeholders, University partners and researchers collectively to overview the body of research activity conducted every day within our hospital walls.

I am impressed by both the breadth of research across many disciplines and departments and the skill of our researchers, many of whom are frontline clinicians conducting research when opportunities arise or their curiosity is sparked. It is hoped that this report will showcase our research highlights to continue to establish and develop new horizons with academic partners, funding bodies and the wider health community.

The Research Committee has developed from a small group who primarily reviewed research governance documents to a multi-disciplinary think tank laying the foundations for research development with the able assistance of the Future Hospital Program. We recognise that research benefits patients, staff and our community and we see the importance in pioneering a centre of research excellence.

I congratulate all researchers on their achievements during 2017. On behalf of all researchers, I would like to thank the Metro South Health Centres for Health Research for its ongoing and increasing support of research at Logan and Beaudesert Hospitals. I would also like to particularly thank Kellie Sosnowski, Research & Innovation Associate and Renee Dickens from Future Hospital Program for their tireless efforts to bring this Report to life. Our hope is that it provides inspiration for all researchers, new and old and celebrates our current achievements.

I commend the 2017 Research Report to you.

Dr Felicity Jensen
MBBS MHM(Dist) FRACMA
Chair, Research Advisory Committee
Deputy Director Medical Services
Logan-Beaudesert Hospitals Metro South Health
Departmental Reports

- 73 Publications
- 62 Clinical Research Projects
- 61 Presentations & Conferences
- 27 Post graduate Research Students
- $433,866 Grant Funding
Anaesthetic Department

Journal Articles


Allied Health - Psychology

Journal Articles


Book Chapter


Cardiology Department

Journal Articles


Department of Head and Neck Surgery

Journal Articles


Clinical Research

Head and Neck Cancer Detection is a Spitting Distance Away - Saliva Screening Test Study. QUT and Logan Hospital. Assoc. Prof Bernard Whitfield and Assoc. Prof Chaminde Punyadeera (QUT). This study is investigating early cancer detection using human saliva. The goal of this research is to develop tools and techniques that can be translated to a clinical setting, where cancer diagnosis is as easy as “spitting” into a cup. Early
detection of cancer will enable early intervention and will reduce death associated with cancer metastasis. (Contact - Associate Professor Bernard Whitfield).

Developing an Oral Rinse Method to Detect Human Papillomavirus: QUT and Logan Hospital. Assoc. Prof Bernard Whitfield and Assoc. Prof Chamindie Punyadeera (QUT). The purpose of this research is to develop an early non-invasive detection method for HPV positive head and neck squamous cell carcinoma (HNSCC). (Contact - Associate Professor Bernard Whitfield).

Circulating Tumour Cell Prognostic assay: QUT and Logan Hospital. Assoc. Prof Bernard Whitfield and Assoc. Prof Chamindie Punyadeera. The purpose of this research is to undertake the development of a PD-L1 circulating tumour cell (CTC) assay in the Advance Queensland Innovation project. (Contact - Associate Professor Bernard Whitfield).

Awards

Professor Bernard Whitfield, the Director of the Integrated Specialist ENT Service, Otolaryngology, Head and Neck Surgery was promoted to Associate Professor Griffith University.

Department of Medicine

Journal Articles


**Clinical Research**

**Sponsored Study**

Carolina: Cardiovascular Outcome Study of Linagliptin versus Glimepiride in Patients with Type 2 Diabetes. Sponsor: Boehringer Ingelheim. Collaborator: Eli Lilly and Company. (Contact-Professor R Jackson).

Mariner: Medically ill patient assessment of Rivaroxaban versus placebo in reducing post discharge venous thromboembolism risk. (Contact - Hayden White)


**Department of Orthopaedics**

**Journal Articles**


McRae B, Nusem I. Temporal characteristics of paediatric supracondylar humerus fractures. Trauma. 2017 April.

**Department of Surgery**

**Journal Articles**


Siddaiah-Subramanya M, Nyandowe M, Zubair O. Self-regulated learning: why is it important compared to traditional learning in medical education? Advances in Medical Education and Practice. 2017 8, p. 243-246.

Siddaiah-Subramanya M, Singh H, Tiang K. Research during medical school: is it particularly difficult in developing countries compared to developed countries? Advances in Medical Education and Practice. 2017 8, p. 771-776.


Letters to the Editor


Awards and Achievements

Dr Peter Wysocki, Co Convenor, International Pilonidal Sinus Disease Conference, Berlin Germany, 23rd Sept, 2017

Emergency Department

Journal Articles


Clinical Research

Single Centre

Chest pain data extraction for clinical data registries: The Chest Pain DECoDeR Study. (Main Contact - Dr Siegfried Perez)

Multicentre

Knowledge Translation Study – bronchiolitis (Contact - Ben Lawton).

BELLPIC – Bell’s Palsy in Children Study Staff

Wellbeing Survey (Contact - Ben Lawton).

Fellowships and Grants


$69,444 Emergency Medicine Fund. Dr Ben Lawton. How are we treating severe childhood asthma in Australasia?

$5,150 Emergency Medicine Fund. Dr Mohan Sangeeth. Carotid responsiveness to assess fluid status

$25,000 Centre for Research Excellence – PhD scholarship grant. Dr Siegfried Perez. Cardiovascular Outcomes Improvement.

$30,000 Centre for Research Excellence – Dr Siegfried Perez. Cardiovascular Outcomes Improvement Grant.

Gastroenterology Department

Journal Articles


Clinical Research

Single Centre

Refining a conversion factor for accurately estimating the adenoma detection rate for both high and low polyp detectors. (Contact - Sarah Stanley).

Validity for calculating ADR for all indication correlates well with the standard of the screening ADR in the Australia population. (Contact - Sarah Stanley).

Conference Presentations

- Inflammatory Bowel Disease Clinical, 2017 August.


**Intensive Care Unit**

**Journal Articles**


Clinical Research

Single Centre
DUEET: Diaphragmatic Ultrasound and Electromyography during Spontaneous Breathing Trial. (Contact - Stephen Whebell).
PED: Post extubation dysphagia - identifying risk factors and outcomes. (Contact - Maria Schwarz).
BC-TEG: Can thromboelastography be used to predict blood culture results in clinically septic patients; A prospective observational trial. (Contact - Jennifer Gaffney).

Multicentre
ADRENAL – A randomised blinded placebo controlled trial of hydrocortisone in critically ill patients with septic shock. (Contact Hayden White).
MARINER – Medically ill patient assessment of Rivaroxaban versus placebo in reducing post discharge venous thromboembolism risk. (Contact Hayden White).
TARGET - The Augmented versus Routine approach to Giving Energy Trial: A randomised controlled trial. (Contact Hayden White).
TRANSFUSE - STandaRd Issue TrANsfusion versus Fresher red blood cell Use in intenSive carE–a randomised controlled trial. (Contact - Hayden White).

Conference Presentations

Awards and Achievements
**Medical Education Unit**

**Journal Articles**


**Mental Health Unit**

**Journal Articles**


**Letter to the Editor**


**Nursing**

**Journal Articles**


Cassandra Stone, Nurse Practitioner - Nephrology

Cassandra Stone, Nurse Practitioner - Nephrology


**Conference Presentations**

Nutrition and Dietetics Department

Journal Articles

Letters to the Editor

Conference Presentations

**Awards and Achievements**


**Obstetrics and Gynaecology**

**Journal Articles**


**Conference Presentations**


**Occupational Therapy Department**

**Conference Presentations**


Clinical Research

Person Centred Goal Setting in Rehabilitation (Multi-Site). (Contact Amanda Baker - Statewide Rehabilitation Clinical Network).

Fellowships and Grants

$138,000 Study Education and Research Trust. Metro South Postgraduate Research Scholarship Andrea Rapolthy-Beck. Effectiveness of early functional occupation based retraining therapy in a Medical-Surgical ICU Effort-ICU.

Paediatric Department

Journal Articles


Pharmacy Department

Journal Articles


Clinical Research

Single Centre

Research confidence, experience and interest in an Australian Hospital Pharmacist population. (Contact - Jason Waddell).

The Personality Traits of Australian Pharmacy Students. (Contact - Jason Waddell).

Thiamine Drug Use and Expenditure Evaluation. (Contacts - Sven Marxen and Jackie Trieu)

Antipsychotics and Benzodiazepines in Dementia and/or Delirium. (Erin O’Donnell, Jason Waddell).

Development of a patient selection algorithm for telepharmacy services. (Contacts - Catherine Edmunds, Fiona Fong).

Nicotine Patch Prescription on Discharge at Logan Hospital (A Comparative Audit). (Contact - Hailie Uren, Stamatia Halse).

Audit of missed doses of Parkinsonian Medications for patients with Parkinson’s Disease. (Contact - Lee House).

The Impact of a Clinical Pharmacy Service in the Physiotherapy Musculoskeletal Management Clinic and Conservative Management Service (PMMC & CMS) at Logan Hospital. (Contact - Judy Lin, Millicent Ballincin).

Evaluation of Pharmacological Management of Intermittent Seizure & Status Epilepticus at Logan Hospital. (Contact - Paul Firman, Sarah Spann).

A Retrospective Review of Medication Incidents and Pharmacist Interventions in the Paediatric Unit at Logan Hospital. (Contact - Sally Porter).
Logan Hospital Melatonin Usage in Paediatrics. (Contact - Chai Gaik Yeoh, Karla Mayfield, Jack Roberts).

Beaudesert Hospital General Ward Inpatient Review: Medication Incidents & Pharmacy Interventions. (Contact - Chen Foo, Suzanne Fysh, Jessica Rossborough).

Retrospective Audit of Precipitating Factors of Admissions to Acute Mental Health (MH) Inpatient Units of Patients Under care of Adult MH Wellbeing Team Elsie Peusschers. (Contact - Marian Hjort).

Anticoagulation Management in Stroke Patients with Atrial Fibrillation at Logan Hospital. (Contact - Matthew Gibbs).

Baseline acquisition of the characteristics of communication between pharmacists and other health professionals prior to the implementation of Electronic Medication Management (EMM). (Contact - Lorelle Brown, Karla Mayfield, Chloe Lamb).

A baseline audit of Enterprise-wide Liaison Medication System (eLMS) produced Discharge Medication Records (DMRs) prior to the implementation of Electronic Medication Management (EMM). (Contact - Edwin Cheung, Sarah Spann, Jackie Trieu).

A baseline audit of clinical services Key Performance Indicators (KPIs) prior to the implementation of Electronic Medication Management (EMM). (Contact - Helender Singh).

A baseline audit of daily activities and tasks performed by advanced scope pharmacy assistants prior to the implementation of Electronic Medication Management (EMM). (Contact - Aarong Cheong, Thanh Pham).

Review of surgical antibiotic prophylaxis at Logan Hospital. (Contact - Marjoree Sehu, Tina Patterson, Zack Klyza).

**Conference Presentations**


Physiotherapy Department

Journal Articles


Clinical Research

Diaphragmatic Ultrasound to predict successful weaning from Mechanical Ventilation. Logan Hospital, Jess Sharratt and Mark Strong (Contact – Assoc. Professor Hayden White)

CALD pre-registration Physiotherapy Students Multi-Site (Contact – Chanelle Louwen)

DiSC behaviour profiling for students and Clinical Educators - Pilot Study. Logan Hospital (Contact – Chanelle Louwen)

Physiotherapist experience and confidence in the management of vestibular disorders across the continuum of care. Logan Hospital and Logan and Beaudesert and Community Health Centres (Contact – Mel Godfrey)

An alternative to therapy management of DeQuervains Logan Hospital (Contact - Erika Lassig, Sue Driessens, Jon Mc Pherson)

Retrospective review of conservative management of trigger finger Logan Hospital (Contact - Christopher Burton, Lauren Gardner)

The stroke IMPACT trial: Improving Physical Activity via treadmill training – RCT. Multi-centre (Contact - Sandra Brauer)

Physitrack - HEP tracking of reps/frequency. Logan Hospital (Contact - Daniela Malureanu)

Caudia equina literature review and statewide guidelines. Multicentre (Contact – Brendan Diplock)

Medical Imaging Department

Journal Articles


Conference Presentations


Brennan, T, Skalski M, Gaillard F, Dixon A, Hacking C. 2017. Review of CT imaging features in renal trauma correlated to the American Association for the Surgery of Trauma (AAST) organ injury scale. 68th Annual Scientific Meeting of the Royal Australian and


To H, Neep M. To grid or not to grid: communicating the results of a clinical based study. 12th Annual Scientific Meeting Imaging and Radiation Therapy, Perth, Australia. 24 – 26 Mar 2017.


Clinical Research


MID MRI Logan Hospital Cardiac team - Review relationship of cardiac structure and function to chronic renal impairment.

MID MRI Logan Hospital Cardiac team - Aim of trial is to test the hypothesis that amongst patients with mild/ moderate heart failure, a routine CMR guided management strategy of implantable defibrillator (ICD) is superior to a conservative strategy of standard care.
MID Ultrasound and ICU - Diaphragm Ultrasound Electromyography Analysis.

**Multicentre-studies**

IMPROVE-CKD Trial. Logan CT department.

(Impact of Phosphate Reduction on Vascular End points in Chronic Kidney Disease.) Improve Clinical Research Trial.


**Renal Dialysis Department**

**Journal Articles**


**Conference Presentations**


chronic kidney disease in QLD registry (CKD.QLD)

Respiratory department
Journal Articles
Gibson J. King H, Singh M, Tran K. Diffuse panbronchiolitis in a Samoan man. Respirology Case Reports. 2017 5(3).

Clinical Research
Respiratory dysfunction in myotonic dystrophy. (Contact – Khoa Tran and Professor Rick Jackson).

Speech Pathology Department
Journal Articles


Conference Presentations


Clinical Research

Allied Health Assistants as an adjunct to speech pathology assessment in dysphagia management of adult acute inpatients. (Contact - Maria Schwarz).

Auditing of modified diets and thickened fluids in the hospital setting. (Contact - Jane Ross).

Implementation and outcomes of a standardised oral hygiene assessment and management protocol. (Contact - Blaise Hamlet and Inger Kwiecien).

Optimising acute transitional care for culturally and linguistically diverse stroke survivors. (Contact - Naomi Kalapac).

Post Extubation Dysphagia (PED). (Contact - Maria Schwarz).

Speech pathology administration of CoPhenylcaine Forte Nasal spray during nasendoscopy. (Contact - Marnie Seabrook)

The use of Allied Health Assistants in speech pathology. (Contact - Maria Schwarz).

The use of Allied Health Assistants to complete dysphagia screening in an acute hospital setting. (Contact - Maria Schwarz).

The use of LSVT LOUD during speech language pathology clinical placements: the experiences of students, educators and patients. (Contact - Kylie Keast).

Fellowships and Grants


$10,675 Allied Health Expanded Scope Implementation Project Funding - Allied Health Professions Office of Queensland. Gail Gordon, Anne Coccetti, Maria Schwarz. Expanding scope of practice
for AHAs in dysphagia screening.

Social Work Department

Conference Presentations


Clinical Research

The Role of Hospital Social Workers in Mortuary-Based Interventions.

Health Justice Partnership (HJP) research project.
Publications, Grants and People
Clinical Research

A baseline audit of clinical services Key Performance Indicators (KPIs) prior to the implementation of Electronic Medication Management (EMM) (Contact - Helender Singh).

A baseline audit of daily activities and tasks performed by advanced scope pharmacy assistants prior to the implementation of Electronic Medication Management (EMM) (Contact - Aarong Cheong, Thanh Pham).

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Caudia equina literature review and statewide guidelines. Multicentre. (Contact – Brendan Diplock).

Chest pain data extraction for clinical data registries: The Chest Pain DECoDeR Study. (Main Contact – Dr Siegfried Perez).

Circulating Tumour Cell Prognostic assay. (Contact - Associate Professor Bernard Whitfield).


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Development of a patient selection algorithm for telepharmacy services (Contacts - Catherine Edmunds, Fiona Fong).

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Head and Neck Cancer Detection is a Spitting Distance Away - Saliva Screening Test Study. (Contact - Associate Professor Bernard Whitfield).

Health Justice Partnership (HJP) research project (Contact Social work department).

Implementation and outcomes of a standardised oral hygiene assessment and management protocol (Contact - Blaise Hamlet and Inger Kwiecien).

IMPROVE-CKD Trial. Logan CT department. (Impact of Phosphate Reduction on Vascular End points in Chronic Kidney Disease.) Improve Clinical Research Trial.

KABI - Inducing ketogenesis in patients with acute brain injury via oral administration of a ketogenic feed. (Contact - Hayden White).

Knowledge Translation Study – bronchiolitis (Contact - Ben Lawton).

Logan Hospital Melatonin Usage in Paediatrics (Contact - Chai Gaik Yeoh, Karla Mayfield, Jack Roberts).

MARINER – Medically ill patient assessment of Rivaroxaban versus placebo in reducing post discharge venous thromboembolism risk. (Contact - Hayden White).


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Respiratory dysfunction in myotonic dystrophy. (Contact – Khoa Tran and Professor Rick Jackson).

Retrospective Audit of Precipitating Factors of Admissions to Acute Mental Health (MH) Inpatient Units of Patients Under care of Adult MH Wellbeing Team Elsie Peusschers (Contact - Marian Hjort).

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Review of surgical antibiotic prophylaxis at Logan Hospital (Contact - Marjoree Sehu, Tina Patterson, Zack Klyza).
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The Personality Traits of Australian Pharmacy Students. Current undergoing data analysis (Contact - Jason Waddell).

The Role of Hospital Social Workers in Mortuary-Based Interventions (Contact - Social Work department).

The stroke IMPACT trial: Improving Physical Activity via treadmill training – RCT. Multi-centre (Contact - Sandra Brauer).

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The use of Allied Health Assistants to complete dysphagia screening in an acute hospital setting (Contact - Kylie Keast).

Thiamine Drug Use and Expenditure Evaluation (Contacts - Sven Marxen and Jackie Trieu).

TRANSFUSE: STandaRd Issue TrANsfusion versus Fresher red blood cell Use in intenSive carE—a randomised controlled trial. (Contact - Hayden White).

Validity for calculating ADR for all indication correlates well with the standard of the screening ADR in the Australia population (Contact - Sarah Stanley).

Journal Articles

The following articles include at least one author employed at Logan Hospital at the time of publication.


Gibson J. King H, Singh M, Tran K. Diffuse panbronchiolitis in a Samoan man. Respirology Case Reports. 2017 5(3).


Matthews K, Capra S, Palmer M. Throw caution to the wind: is refeeding syndrome really a cause of death
McRae B, Nusem I. Temporal characteristics of paediatric supracondylar humerus fractures. Trauma. 2017 April.


Siddaiah-Subramanya M, Singh H, Tiang K. Research during medical school: is it particularly difficult in developing countries compared to developed countries? Advances in Medical Education and Practice. 2017 8: p. 771-776.


To H, Neep M. To grid or not to grid: communicating the results of a clinical based study. 12th Annual Scientific Meeting Imaging and Radiation Therapy, Perth, Australia. 24 – 26 Mar 2017.


Books and Book Chapters


Letters to Editor


Conference Presentations


Bennett T. Dietitian first gastroenterology clinic - extended service. Clinical Excellence Showcase, Brisbane Australia. 2 June 2017.

Brennan T, Davis S. 2017. An Audit of CT guided lung biopsies for diagnostic adequacy and complication rates in a teaching hospital. 68th Annual Scientific Meeting of the Royal Australian and New Zealand


John S, Jones D. 2017. In vivo characterisation of sessile serrated adenomas/ polyps (SSA/PS)


To H, Neep M. To grid or not to grid: communicating the results of a clinical based study. 12th Annual Scientific Meeting Imaging and Radiation Therapy, Perth Australia. 24 – 26 Mar 2017.


patients with diabetes and CKD who have undergone renal biopsy. 53rd Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology, Australia. 04 – 06 Sept 2017. Nephrology, 2017 22 Supplement 3 (56).


Major Grants

Grants sorted by Most to Least in each category

$138,000 Study Education and Research Trust. Metro South Postgraduate Research Scholarship Andrea Rapolthy-Beck. Effectiveness of early functional occupation based retraining therapy in a Medical-Surgical ICU Effort-ICU.

$69,444 Emergency Medicine Fund. How are we treating severe childhood asthma in Australasia?


$30,000 Centre for Research Excellence – Dr Siegfried Perez. Cardiovascular Outcomes Improvement Grant.

$25,000 Centre for Research Excellence – PhD scholarship grant. Dr Siegfried Perez. Cardiovascular Outcomes Improvement.


$5,150 Emergency Medicine Fund. Carotid responsiveness to assess fluid status

**Research Postgraduate Students 2017**

**PhD (Completed and in progress)**
- Frampton, Jenna
- Green, Karen
- Hiew, Danika
- Matthews, Kylie
- Neep, Michael
- Perez, Siegfried
- Pokorny, Michelle
- Rapolthy-Beck, Andrea
- Schwarz, Maria
- Waddell, Jason
- White, Hayden
- Whitman, Mark

**Masters (Completed and in progress)**
- Burton, Kate
- Cheong, Aaron
- Crack, Rebecca
- Firman, Paul
- Gibbs, Matthew
- Godfrey, Melanie
- Hawkins, Aaron
- Keast, Kylie
- Lal, Pranika
- Razak, Kavitha
- Shukla, Dheeraj
- Sosnowski, Kellie
- Squaldino, Daniel
- Stevenson, Lorraine

**Professor positions in Logan Hospital**
- Rick Jackson
- Stephen Margolis

**Associate Professor positions in Logan Hospital**
- Arun Dahiya
- Mano Haran
- Iulian Nusem
- Richard Roylance
- Ken-Soon Tan
- Khoa Tran
- Hayden White
- Bernard Whitfield