Logan and Beaudesert Hospital

2018 Research Annual Report
Contents

Message from Chair, Research Advisory Committee, Logan and Beaudesert Hospitals - Dr Felicity Jensen ................................................................. 4
Logan and Beaudesert Hospitals’ Research Advisory Committee .............................................. 5
Departmental Reports ........................................................................................................... 9
   Allied Health - Psychology .................................................................................................. 10
   Cardiology Department ..................................................................................................... 10
   Department of Head and Neck Surgery ............................................................................... 11
   Department of Orthopaedics ............................................................................................ 11
   Department of Surgery .................................................................................................... 11
   Emergency Department .................................................................................................... 13
   Gastroenterology Department .......................................................................................... 14
   Intensive Care Unit .......................................................................................................... 15
   Medical Imaging Department ............................................................................................ 16
   Mental Health Unit .......................................................................................................... 17
   Nursing and Midwifery Unit ............................................................................................. 17
   Nutrition and Dietetics Department .................................................................................. 17
   Obstetrics and Gynaecology Department ........................................................................ 19
   Occupational Therapy Department .................................................................................. 19
   Paediatric Department ...................................................................................................... 19
   Pharmacy Department ..................................................................................................... 20
   Physiotherapy Department ............................................................................................... 21
   Renal Dialysis Department ............................................................................................... 21
   Southern Queensland Centre of Excellence in Aboriginal and Torres Strait Islander Primary Health Care - Inala Indigenous Health Service ............................................................................................................. 22
   Social Work Department ................................................................................................ 25
   Speech Pathology Department ........................................................................................ 25
Publications, Grants and People ............................................................................................ 29
   Clinical Research ............................................................................................................. 30
   Journal Articles ................................................................................................................ 32
   Books and Book Chapters ............................................................................................... 36
   Letters to Editor or Editorial ............................................................................................ 36
   Conference Abstracts and Presentations .......................................................................... 36
   Major Grants .................................................................................................................... 40
   Research Postgraduate Students 2018 ............................................................................ 41
Message from Chair, Research Advisory Committee, Logan and Beaudesert Hospitals
Dr Felicity Jensen

Following the success of our inaugural Research Report last year, I am delighted to present 2018’s compendium showcasing our research achievements across Logan & Beaudesert Hospitals. Notably, research activities have expanded both in volume and reach. Throughout these pages you will discover considerable evidence of research outcomes, grant successes and demonstrable collaboration between our hospital clinicians, industry & partnering academic organisations.

There is no hospital in the world which can thrive without research activity. Similarly, there is no research project which can transform a hospital without patient care delivery at its core. There is a fundamental synergism between service delivery and research activities; one is isolated without the other. I hope that this Report serves to highlight the many successful research endeavours and inspire all researchers, from novice to advanced, to take up the research gauntlet.

I wish to congratulate all researchers on their accomplishments during 2018. Metro South Health Centres for Health Research continues to provide operational support and we are grateful for their ongoing support.

The production of a Report such as this requires an organised person with an eye for detail and boundless enthusiasm – I would like to acknowledge the work of Kellie Sosnowski, Research & Innovation Associate from the Future Hospital Program, for her efforts to bring this compilation to life.

This Report is truly a testament to our development as we become a mature research centre of excellence. Please join me in celebrating this year’s achievements and focus on tomorrow’s research opportunities – we are set for a colossal hospital expansion over the coming years and it is vital to lay down the foundations of research excellence for our patients of tomorrow.

I commend the 2018 Research Report to you.

Dr Felicity Jensen
Chair, Research Advisory Committee
Logan & Beaudesert Hospitals
Metro South Health
Logan and Beaudesert Hospitals’ Research Advisory Committee

Pictured: Research & Innovation Associate Kellie Sosnowski, Jack Roberts, Dr Michelle Palmer (PhD), Chair of Research Advisory Committee Dr Felicity Jensen, Lynette Morrison, Dr Siegfried Perez, Associate Professor Richard Roylance.

in absentia: Professor Rick Jackson, Dr Benjamin Lawton, Donna McLean, Dr Swarada Kotkar, Dr John Britten, Dr Sue Shiels.

Associate Professor
Khoa Tran

Dr Kristine Estensen

Maria Schwarz
86 Clinical Research Projects

69 Publications

67 Presentations & Conferences

15 Post Graduate Research Students

$1,585,777 Grants
Departmental Reports
Allied Health – Psychology

Journal Articles


Cardiology Department

Journal Articles


Hawkins A, Jesuthasan L, Vardesh D. Case of severe acute lupus myocarditis and multiple-organ failure. BMJ Case Reports. 2018 (6).


Conference Presentations


Department of Orthopaedics
Journal Articles


Department of Surgery
Journal Articles


Conference Presentations
Bloomfield I, Price S, Ding M, Gillespie C, Warwick A. Examination under anaesthetic is an important diagnostic tool for assessment of high grade internal rectal prolapse. Colorectal Disease, 2018. (20) p. 45.

Letters to the Editor or Editorial

Emergency Department

Journal Articles
Acreman M, Sainani M. Retzius space haematoma as a rare cause of concealed retro-peritoneal postpartum haemorrhage following spontaneous vaginal delivery. BMJ Case Reports. 2018 Aug 29. doi: 10.1136/bcr-2018-225980


Book and Book Chapter

Conference Presentations

Lawton B. Don’t forget the bubbles. DFTB18. Melbourne Australia. 26 – 29 August 2018.


Clinical Research

Paediatric
Aphirst Gap – retrospective Head injury study (Multi-Site).
Asthma chart review Retrospective study (Multi-Site).
BellPIC – bell’s palsy study in children (Multi-Site).
KT Bronch – Bronchiolitis management retrospective study (completed) (Multi-Site).
PERN pneumonia study (Multi-Site).
Point of care lung ultrasound study – Registrar training.

Adult
Carotid doppler ultrasound with passive leg raise for fluid responsiveness study.
Fluid resuscitation in emergency patients with sepsis and hypotension (ARISE Fluids) (Multi-Site).
Pregabalin for chronic pain after whiplash drug trial (Multi-Site).

Fellowships and Grants
$150,000 The Chest Pain DECoDeR Study: Data Extraction for a Chest Pain Clinical Data Registry. 2 years from Emergency Medicine Foundation (EMF).
$96,034 PRECARE - Paediatric Reduction in Emergency Cannula Accidental Removal Trial. 2 years from Emergency Medicine Foundation (EMF).

Gastroenterology Department

Conference Presentations


Wiggins L, Stanley S, Szetoo W, Jones D, McIvor C. Clinical and cost-effectiveness of the nurse practitioner endoscopist in one Queensland regional


Clinical Research

Coeliac disease trial using human hookworm to moderate gut inflammatory response to gluten.

Double EUSS biliary drainage in the patient with malignant hilar obstruction.

Three years follow up of post endoscopic mucosal resection (EMR) polypectomy in patient at Logan Hospital (2015-2018).

Intensive Care Unit

Journal Articles


Clinical Research

Single Centre

BC-TEG: Can thromboelastography be used to predict
blood culture results in clinically septic patients; A prospective observational trial (Contact Jennifer Gaffney)

DUET: Diaphragmatic Ultrasound and Electromyography during Spontaneous Breathing Trial (Contact Stephen Whebell)

EFFORT ICU: The effectiveness of early purposeful occupation-based retraining in a medical/surgical intensive care unit: study protocol for a single-site randomised controlled feasibility trial (Contact Andrea Rapolth-Beck)

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

PED: Post extubation dysphagia - identifying risk factors and outcomes (Contact Maria Schwarz)

Multicentre

ADRENAL – A randomised blinded placebo controlled trial of hydrocortisone in critically ill patients with septic shock (Contact Hayden White)

ADRENAL CONSENT STUDY.

BLING III: Beta-Lactam Infusion Group.

CHESTY: Chest infection prevalence after surgery.

DECUBICU: Point prevalence study of pressure injuries in ICU.

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)

Medical Imaging Department

Journal Articles


Conference Presentations

Purchuri S, Godinho S. Testicular cancer. Journal of Medical Imaging and Radiation Oncology. 2018 62: p. 102. 69th Annual Scientific Meeting of the Royal


**Mental Health Unit**

**Journal Articles**


**Nursing and Midwifery Unit**

**Journal Articles**


**Book and Book Chapter**


**Conference Presentations**


**Nutrition and Dietetics Department**

**Journal Articles**


Conference Presentations


Smith N, Palmer M. Implementation of a liberalised refeeding syndrome guideline based on up to date Obstetrics and Gynaecology Department

Clinical Research

GDM dietetic services redesign – a multi-site study.

Fellowships and Grants


Obstetrics and Gynaecology Department

Journal Articles


Conference Presentations


Occupational Therapy Department

Journal Articles


Clinical Research

EFFORT ICU: The effectiveness of early purposeful occupation-based retraining in a medical/surgical intensive care unit: study protocol for a single-site randomised controlled feasibility trial (Contact Andrea Rapolthy-Beck).

Paediatric Department

Journal Articles


Pharmacy Department

Journal Articles


Conference Presentations


Clinical Research

Audit of clozapine monitoring at community sites (Contact Greg Spann)

A retrospective audit of prolonged seizure management (Contact Vivienne Klyzar)

A retrospective audit of VTE prophylaxis prescribing post-caesarean section at Logan Hospital (Contact Judy Lin)

Evaluating the impact of a smoking cessation support group in the Mental Health Unit (Contact Martin Wong)

Eyes in the sky: Remote proactive surveillance supporting multi-site medication safety during digital transformation (Contact Matthew Gibbs)

Goodbye PPI (Contact Sasha Ashley)

Inpatient medication supply, and administration review in rehabilitation ward at Logan Hospital (post eMR/ADC profiling implementation) (Contact Sven Marxen)

Pharmacist time-in-motion study post-digital – Surgical (Contact Kate Streatfeild)

Retrospective audit of anticoagulation plans of care of discharge at Logan Hospital (Contact Erin O'Donnell)

Retrospective audit on post-surgical opioids prescribing upon discharge for acute pain and associated adverse events (Contact Chai Gaik Yeoh)

Retrospective review of inhaled corticosteroid use in patients with asthma and COPD at Logan Hospital (Contact Helender Singh)
Review of pharmacy key performance indicators across medical wards following the implementation of Digital Hospital at Logan Hospital (Contact Rebecca Judd)

Review of pharmacy key performance indicators across Emergency and Women’s and Children’s Division following the implementation of Digital Hospital at Logan Hospital (Contact Judy Lin)

Review of pharmacy key performance indicators across mental health wards following the implementation of Digital Hospital at Logan Hospital (Contact Chastina Heck)

Time to ward: Does an emergency department pharmacist consult decrease the average time to admission to an inpatient ward? (Contact Rebecca Judd)

What sort of number and type of medication interventions does the transition to a digital hospital setting bring with it? (Contact Helender Singh)

**Physiotherapy Department**

**Journal Articles**


**Conference Presentations**

Foster J. Live Well Logan. 8th Biennial Australian and New Zealand Falls Prevention Conference. Hobart Australia. 18 – 21 November 2018.

Kajewski H. Stop Wait Go!!! Patient and staff perspectives regarding the traffic light system in rehabilitation. 8th Biennial Australian and New Zealand Falls Prevention Conference. Hobart Australia. 18 – 21 November 2018.


**Clinical Research**

CHESTY: Chest infection prevalence after surgery.

**Fellowships and Grants**

$32,400 Louwen C. Creating a supportive clinical learning environment for physiotherapy students: A feasibility study to enhance collaboration between students & educators using the “Everything DiSC”. CETI Grant.

$16,431 Cornish A. Development of women’s, men’s and pelvic health clinical assessment video vignettes and resource package to complement the training and interpretation of the assessment of physiotherapy practice instrument. CETI Grant.

$28,000 Burton C. Retrospective review of conservative management of trigger finger. HP Research Grant.

**Renal Dialysis Department**

**Journal Articles**


Southern Queensland Centre of Excellence in Aboriginal and Torres Strait Islander Primary Health Care – Inala Indigenous Health service 

Journal Articles 


**Book and Book Chapter**

Coleman J. “Chapter 12, Type 2 Diabetes Prevention and Early Detection”. Published in RACGP National guide to a preventive health assessment for Aboriginal and Torres Strait Islander people: Evidence base 3rd ed. 2018

**Conference Presentations**


Hayman N. Improving Aboriginal and Torres Strait Islander access to specialist care – The Inala model – One stop shop. RACP Congress. Sydney Australia. May 2018.


Ruhle J. Professional development with tutors. HIPPY Australia National Gathering. Gold Coast Australia. 3 September 2018.


Clinical Research
A CRE for building Indigenous research capacity to find solutions to alcohol problems (Multicentre) (Contact Noel Hayman)
ATODS at CoE (Contact Candice Colbran)
Chronic kidney disease: Early identification of risk and experiences of living with the disease among patients attending an urban Aboriginal and Torres Strait Islander primary health care clinic (Contact Prabha Lakhan)
Consumer navigation of electronic cardiovascular tools - The CONNECT study (Multicentre)
CRE in integrated quality improvement (CRE-IQI) (Multicentre) (Contact Deborah Askew)
Deadly ears clinic evaluation (Multicentre) (Contact Helen Sargissan)
Describe study of our patients with Hepatitis C (Contact Prabha Lakhan)
Developing interprofessional practitioners in a student led urban Indigenous Health setting (Contact Wendy Foley)
Discharge against medical advice (Contact Deborah Askew)
Empowering strong families (Contact Deborah Askew)
FaCtS (Multicentre) (Contact Deborah Askew)
Food security – community perceptions and experiences – (Contact Tanya Saldanha)
Food security – the role of the health professional (Contact Leigh Bramwell)
Getting it Right - Validating the adapted PHQ-9 depression screening instrument (Multicentre) (Contact Deborah Askew)
Home based, Outreach chronic disease management exploratory study (HOME Study) (Contact Deborah Askew)
Identification of community research priorities (Completed) (Geoff Spurling)
IMerSe (Multicentre) (Contact Warren Jennings)

Improving nutrition knowledge and practice for families with small children (Contact Annalie Houston)
Improving process of care for people with diabetes (Contact Clare Villalba)
PCSK9 Study (Multicentre) (Contact William Wang)
Prevalence and management of incontinence among Aboriginal female patients attending the Southern Queensland Centre of Excellence in Aboriginal and Torres Strait Islander Primary Health Care (Contact Prabha Lakhan)
Rapid review of Aboriginal and Torres Strait Islander Research (Contact Warren Jennings)
Rates and effects of hearing loss in Aboriginal and Torres Strait Islander Adults (Contact Alice Pender)
Roles & Ritual: The Inala Wangarra Rites of Passage Ball case study (Multicentre) (Contact Deborah Askew)
Screening matters (Multicentre) (Contact Lisa Whop)
Telehealth CRE (Multicentre) (Contact Noel Hayman)
The Grog App Survey (Multicentre) (Contact Deborah Askew)
The INFLATE trial (Multicentre) (Contact Deborah Askew)
The Power of Talk (Completed) (Warren Jennings)
Understanding the use of developmental evaluation: a PhD study (Contact Sam Togni Deb Askew)
Visual acuity (Contact Geoff Spurling)
Validation of electronic health check data (Completed) (Geoff Spurling)
WATCH – a Randomised controlled trial of antimicrobial treatment versus watchful waiting for acute otitis media in low risk Aboriginal children (Multicentre) (Contact Deborah Askew)

Fellowships and Grants
$25,000 2019 Metro South HHS Research Support Scheme – Novice Researcher Small Grant: Jennings

$6,535 Spurling G.; Lakhan P; Cooney, A; Palamuthusingam, D; Torrens, G; Martinez Ortiz A; Johnson, D. Aboriginal and Torres Strait Islander persons attending an urban Indigenous primary health care clinic and their experiences of living with chronic kidney disease. Royal Australian College of General Practitioners Foundation Indigenous Health Award.


Social Work Department

Journal Articles


Speech Pathology Department

Journal Articles


Conference Presentations


Clinical Research

Audit of pre-packed thickened fluids at Logan Hospital (Contact Jane Ross)

Current practices in complex feeding decisions (Contact Maria Schwarz)

Extended scope of practice: trial of speech pathology led medication prescribing (Contact Maria Schwarz)

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

Perceptions of digital hospital implementation- the viewpoint of Allied Health (Contact Maria Schwarz)

Post Extubation Dysphagia (PED)- identifying risk factors and clinical outcomes (Contact Maria Schwarz).

Progressive bolus hold: a RCT of a multimodal rehabilitation therapy in dysphagia (Contact Blaise Hamlet)

Review of modified diets at Logan Hospital- determining compliance with National Standards (Contact Jane Ross)

The MI-TE Voice project: Enhancing treatment engagement and therapeutic outcomes for participants receiving voice therapy for a functional voice disorder (Contact Jane Smith)

The use of AHAs to complete dysphagia screening in an acute hospital setting (Contact Maria Schwarz)

Logan Hospital’s Librarian

We would like to acknowledge Jeremy Van Dorsselaer who assisted in providing research publications and conference details throughout the year.
Publications, Grants and People
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**Journal Articles**

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Acreman M, Sainani M. Retzius space haematoma as a rare cause of concealed retro-peritoneal postpartum haemorrhage following spontaneous vaginal delivery. BMJ Case Reports. 2018 Aug 29. doi: 10.1136/bcr-2018-225980


Hawkins A, Jesuthasan L, Vardesh D. Case of severe acute lupus myocarditis and multiple-organ failure. BMJ Case Reports. 2018 (6).


**Books and Book Chapters**

Coleman J. “Chapter 12, Type 2 Diabetes Prevention and Early Detection”. Published in RACGP National guide to a preventive health assessment for Aboriginal and Torres Strait Islander people: Evidence base 3rd ed. 2018


**Letters to Editor or Editorial**


**Conference Abstracts and Presentations**


Budd M, Boughen T. PD BUDDy: using smartphone technology to improve patient care. International Society of Peritoneal Dialysis. Vancouver, Canada May, 2018


Judd R. The clinical benefit of antipsychotic polypharmacy in refractory schizophrenia: a literature


Major Grants

Grants sorted by Most to Least in each category:


$96,034. PRECARE - Paediatric Reduction in Emergency Cannula Accidental Removal Trial over 2 years from Emergency Medicine Foundation (EMF).


$32,400. Louwen C. Creating a supportive clinical learning environment for physiotherapy students: A feasibility study to enhance collaboration between students & educators using the “Everything DiSC”. CETI Grant.

$28,000. Burton C. Retrospective review of conservative management of trigger finger. HP Research Grant.


$16,431. Cornish A. Development of women’s, men’s and pelvic health clinical assessment video vignettes and resource package to complement the training and interpretation of the assessment of physiotherapy practice instrument. CETI Grant.

$6,535. Spurling G.; Lakhan P; Cooney, A; Palamuthusingam, D; Torrens, G; Martinez Ortiz A; Johnson, D. Aboriginal and Torres Strait Islander persons attending an urban Indigenous primary health care clinic and their experiences of living with chronic kidney disease. Royal Australian College of General Practitioners Foundation Indigenous Health Award.

Research Postgraduate Students 2018

PhD
(Completed and in progress)
Paul Firman (Pharmacy)
Michael Neep (Medical Imaging Department)
Siegfried Perez (Medical - ED)
Andrea Rapolthy-Beck (Occupational Therapy)
Maria Schwarz (Speech Therapy)
Kellie Sosnowski (Nursing - ICU)
Jason Waddell (Pharmacy)
Hayden White (Medical - ICU)
Mark Whitman (Cardiac Scientist - Clinical Measurements)
Grace Xu (Nursing - ED)

Masters by Research (Completed and in progress)
Aaron Cheong (Pharmacy)
Rebecca Crack (Registered Nurse)
Annalie Houston (Dietitian)
Pranika Lal (Speech Therapy)

Professor positions in Logan Hospital
Rick Jackson

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