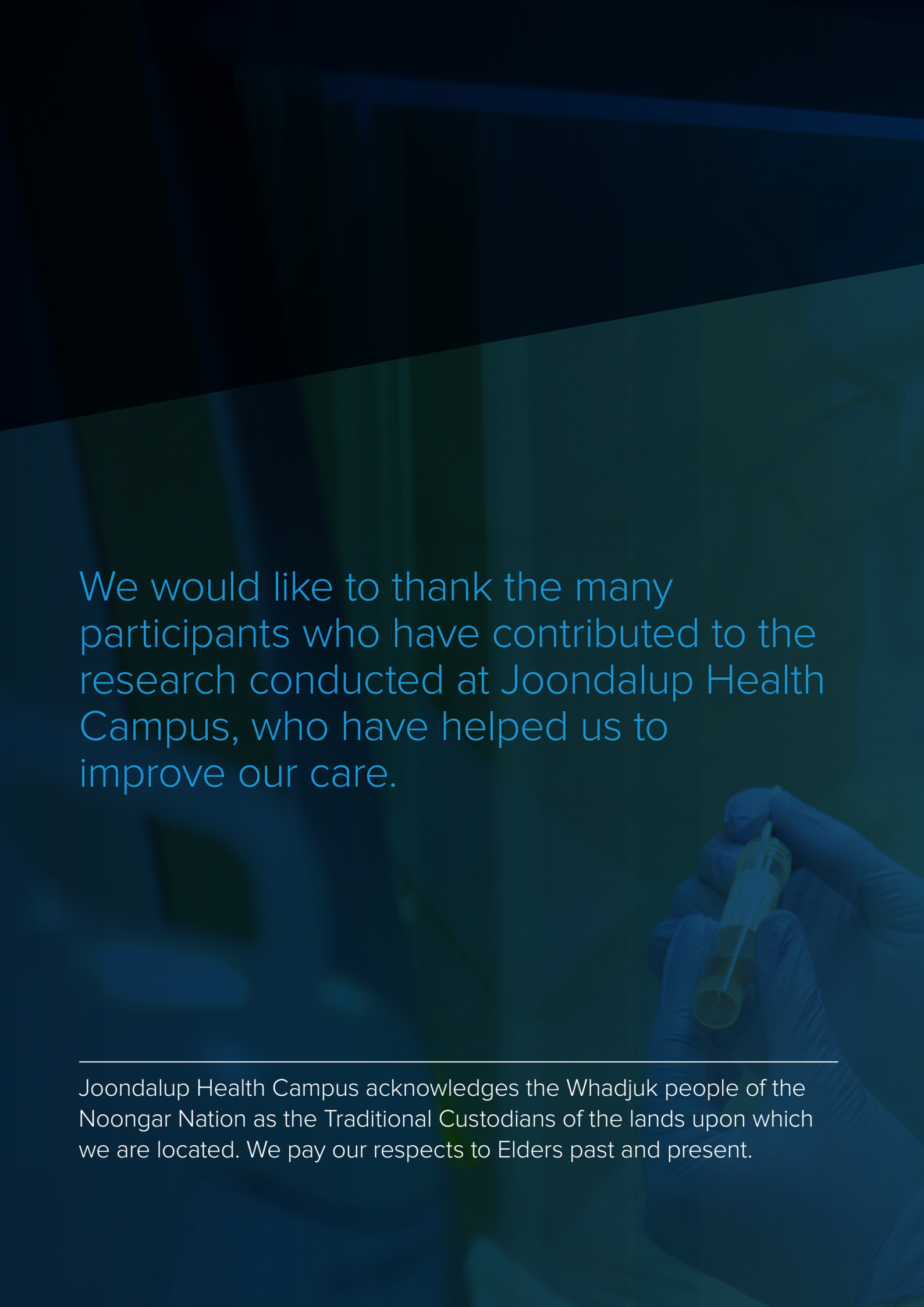


Research Report 2022-2023





We would like to thank the many participants who have contributed to the research conducted at Joondalup Health Campus, who have helped us to improve our care.

Joondalup Health Campus acknowledges the Whadjuk people of the Noongar Nation as the Traditional Custodians of the lands upon which we are located. We pay our respects to Elders past and present.

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Introduction

Introduction From the Chief Executive Officer

Welcome to the 2022-23 Joondalup Health Campus Research Report.

The last 12 months has seen a number of positive changes in the research space at Joondalup Health Campus and we were pleased to solidify our commitment to research with the appointment of our inaugural Director of Research, Professor Desiree Silva in August 2022.

Under Professor Silva's direction the research portfolio at Joondalup Health Campus has experienced continued growth, particularly in the clinical trials area. The Clinical Trials Unit commenced its first trials in 2022 and is starting to enroll patients, allowing them to access innovative care at our hospital. The initial focus has been on oncology clinical trials but will expand into other specialties in the coming months. There are a further 16 clinical trials underway across the hospital in areas as diverse as physiotherapy, orthopaedics and vascular surgery. In total there are more than 110 research projects underway at Joondalup Health Campus.

The past 12 months has also seen changes to the ORIGINS Project, the flagship collaboration with the Telethon Kids Institute, with the final newborn recruited to the active arm of the study in June 2023. The ORIGINS Project team will now follow up the almost 9000 families recruited and will continue to collect information from families who are providing routinely-collected data only. The ORIGINS Project has been an amazing undertaking at Joondalup Health Campus and has resulted in the initiation of more than 40 spin-off research projects since 2016.

Finally, the hospital has also been pleased to support a number of small research projects initiated by clinical staff. Staff who work in patient-facing roles are often best placed to develop relevant research questions and this initiative allows clinician-driven changes to be implemented at the bedside. A number of our staff are also choosing to undertake research projects as part of their progression towards university qualifications.

We thank the clinicians and researchers at Joondalup Health Campus for their continued commitment to improving patient care and importantly thank the participant volunteers for their participation.

Dr Amanda Ling

Chief Executive Officer
Joondalup Health Campus



Dr Ling

Research Highlights



31

Research
publications
in medical journals

2022-2023

110

110 research projects
currently underway

19

19 Clinical trials currently
underway



Research in:

- Anaesthetics
- Cardiology
- Dietetics
- Emergency Medicine
- General Medicine & Training
- Geriatrics
- Immunology & Infectious Diseases
- Intensive Care Medicine
- Mental Health
- Nursing
- Midwifery
- Obstetrics
- Gynaecology
- Oncology
- Paediatrics
- Neonatology
- Occupational Therapy
- Orthopaedics
- Physiotherapy
- Rehabilitation
- Renal Medicine
- Respiratory Medicine
- Speech Pathology
- Stroke Service
- Surgery
- Vascular Surgery

Research & Ethics Department

The last 12 months have capped off a busy year for the Research & Ethics Department particularly with the development and consolidation of a number of procedures and processes designed to ensure compliance with regulatory and legislative requirements around research and clinical trials.

At the end of June 2023, there were more than 110 research projects underway across the hospital, 16 of which commenced in the previous 12 months.

Key achievements over the previous 12 months have included:

- Appointment of the inaugural Director of Research at Joondalup Health Campus in August 2022;
- Continued expansion of the Clinical Trial Service at Joondalup Health Campus;
- Nomination of two projects to be undertaken by clinician PhD students as part of the Clinician Researcher Training (CRT) Program funded by the Future Health Research and Innovation Fund;
- Providing support to researchers undertaking small research projects at the hospital;
- Profiling the research undertaken at Joondalup Health Campus at a national level at the inaugural Ramsay Health Care Research Month in September 2022;
- Readying the site for accreditation under the National Clinical Trials Governance Framework;
- Contribution to local and national research agendas, guidelines and policy development on behalf of Joondalup Health Campus.

Clinical Trials Service

The Clinical Trial Unit at Joondalup Health Campus has continued to grow over the past 12 months and has now employs two staff members. While the unit still has a strong focus on oncology trials the unit has now expanded to include potential clinical trials in other medical specialties.

As at 30 June 2023, the Clinical Trial Unit at JHC was undertaking the following oncology trials with additional trials in oncology and paediatrics soon to commence:

- PACIFIC-R: First real-world data on unresectable stage III NSCLC patients treated with durvalumab after chemotherapy
- EVOKE-01: Open-Label, Global, Multicenter, Randomized, Phase 3 Study of Sacituzumab Govitecan Versus Docetaxel in Patients With Advanced or Metastatic Non-Small Cell Lung Cancer (NSCLC) With Progression on or After Platinum-Based Chemotherapy and Anti-PD-1/PD-L1 Immunotherapy
- EVOKE-02: An Open-label, Multicenter, Phase 2 Study of Sacituzumab Govitecan Combinations in First-line Treatment of Patients with Advanced or Metastatic Non-Small-Cell Lung Cancer (NSCLC) Without Actionable Genomic Alterations

There are a further 16 clinical trials underway across the hospital, trialling interventions with our patients to provide them with the best care.



Joanna Brisbane

Manager, Research & Ethics
Department,
Joondalup Health Campus

Ramsay Health Care WA | SA Human Research Ethics Committee

A Human Research Ethics Committee (HREC) reviews submitted research proposals and considers whether there are any ethical implications of the proposed study. Ethically conducted research ensures that research participants are accorded the respect and protection that is due them, while considering any wider benefits of the research to society. A HREC also provides ethical oversight of research projects which are underway and monitors such projects until completion.

Between 1 July 2022 and 30 June 2023, the RHC WAISA HREC Office received 26 applications. Of the applications received, the RHC WAISA HREC reviewed:

- Twenty applications to conduct research projects. A further six projects met the criteria for low-risk research and were reviewed via an expedited review pathway.

A HREC must be constituted in accordance with guidelines stipulated in the National Statement (NS) on Ethical Conduct in Human Research, 2007 (Updated 2018) including the requirement for lay representation. The HREC members listed below, all of whom are volunteers, are to be commended for their commitment to reviewing the submitted applications and ensuring the provision of high-quality, ethical research across Ramsay Health Care sites.

RHC WAISA HREC Member List – 2022-2023:

Chairperson (NS5.1.30a)

- A/Professor Paul Porter

Layperson – Male (NS5.1.30b)

- Mr Tim Benson
- Mr Peter Erskine

Layperson – Female (NS5.1.30b)

- Ms Kate McGee
- Ms Corinna Musgrave

Individual involved in the care, counselling or treatment of people (NS5.1.30c)

- Dr Liezel Bredenkamp (appointed March 2023)
- Dr Amanda Ling
- Ms Linda Locke
- Ms Sarah Oplaat
- Ms Kathryn Ramsay (resigned September 2022)
- Ms Mary Rigby (resigned May 2023)

Individual who performs a pastoral care role (NS5.1.30d)

- Ms Sandy Kilpatrick
- Ms Cate Vose

A lawyer

- Mr Bruce Kent
- Ms Sharron Wise (resigned October 2022)

At least two individuals with current, relevant research experience (NS5.1.30f)

- Dr Terry Bayliss
- Dr Joe Cardaci
- Dr Tracey Coventry
- Dr David Holthouse
- Dr Sarah Harris
- Dr Carol Wang (resigned January 2023)

Research Approved Using a Waiver of Consent

All research involving the collection, use or disclosure of identifiable health information, where the requirement for consent is waived, must be reviewed by a full HREC. If the HREC determines that the public interest in the proposed activity outweighs the public interest in the protection of privacy, the requirement for consent can be waived. The following projects were approved by the RHC WAISA HREC without the requirement for participant consent:

Variation in Computed Tomography scan interpretation of renal and ureteric calculi

Researchers undertaking this retrospective study, reviewed CT scans taken in the preceding 12 months at Joondalup Health Campus and compared the measured kidney stone size with the actual size of the retrieved stone.

Management of Atrial Fibrillation: A Surgical Perspective

This study evaluated the perioperative and longer-term outcomes of surgery to correct atrial fibrillation conducted at a number of hospitals in Western Australia, including Hollywood Private Hospital.

Risk factors associated with the self-removal of nasogastric tubes within the acute stroke population on the stroke ward. A single site retrospective file audit.

The aim of this study was to identify if there are clinical characteristics or demographics associated with the unintentional self-removal of nasogastric tubes within the acute stroke population at Joondalup Health Campus.

The Clinical experience of children and adolescents admitted to hospital with COVID-19 in Western Australia: A State-wide Collaboration

The aim of this study was to describe the clinical experience of COVID-19 in children and adolescents admitted to a hospital across Western Australia in terms of demographics, risk factors, clinical features, treatments and outcomes. A secondary aim was to estimate the incidence of COVID-19 associated hospitalisation, ICU admission and treatment outcomes.

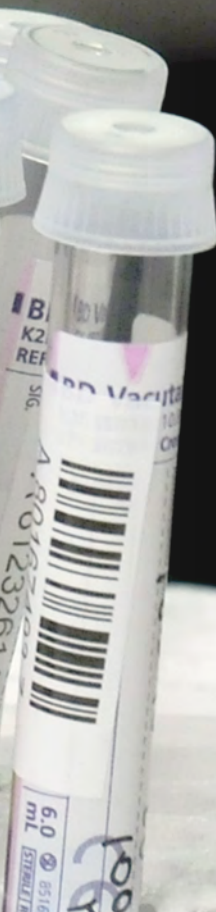
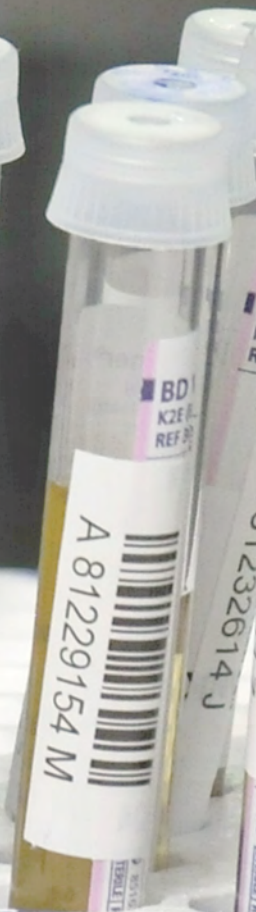
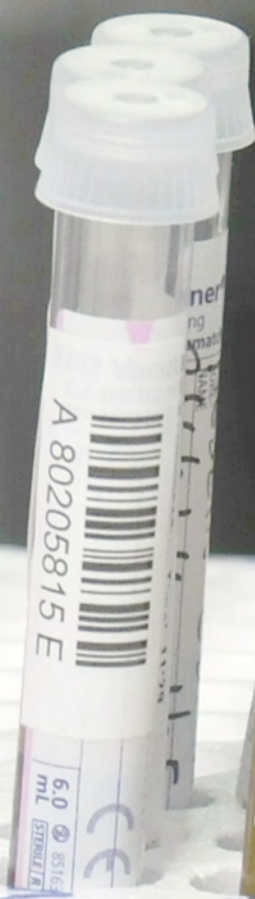
A/Professor Paul Porter

Ramsay Health Care WAISA HREC Chairperson



Dr Porter









Research Snapshots



A better way to listen to our teens and young adults

Dr Chia Saw, Dr Alide Smit, Professor Desiree Silva, Dr Edward Nguyen and researchers from the University of Western Australia



Mental health issues represent a large and growing concern among adolescents, however the identification of the issues troubling our youth is seldom captured in busy hospitals. The aim of this study, conducted by staff in the Telethon Children's Ward at Joondalup Health Campus, was to trial the use of an electronic screening tool to assess the wellbeing of young people aged 12 to 16 years. The researchers found that the use of an electronic questionnaire significantly increased the collection of data from adolescents, who were more likely to disclose information when they were able to submit it electronically rather than be interviewed by a doctor or nurse. Since this study, the use of the mental health screening tool has now become standard care for paediatric inpatients at Joondalup Health Campus.

The ORIGINS Project

Professor Desiree Silva & researchers from the ORIGINS Project



The past year saw an exciting milestone reached in The ORIGINS Project, with the final newborn and their family recruited to the active arm of the study. The ORIGINS Project, a collaboration between Joondalup Health Campus and the Telethon Kids Institute, will now continue to collect data and samples from those children and families already recruited into the study at their state-of-the-art Facility in Edgewater, as well as routinely collected data from babies born at the hospital. The ORIGINS Project is continually evolving to research issues of relevance to the cohort with a number of new projects initiated around issues affecting kindergarten-aged children. There are currently more than 40 ORIGINS sub-projects and more than 315,000 samples and 14 million datapoints in the bio- and databanks.



Research Month 2022

For the first time, the research underway at Joondalup Health Campus was celebrated at a National level, across all Ramsay Health Care sites, with a number of national events and competitions held. Joondalup Health Campus submitted a record 15 of the 48 posters and was proudly represented by the following winners:

- **Dr Esther Adama** Time to clearance from spinal precautions in patients with spinal fractures: a review into factors contributing to delays (*Runner up in the e-Poster Judge's Vote*)
- **Ms Rebecca Hood** Family device use & parent-child attachment (*Winner in 3-minute thesis competition*)

We were also fortunate to have a varied group of guest speakers present their research to staff on site. Some highlights of the week included presentations by the following external speakers, including former Australian of the Year, Professor Fiona Wood:

- **Professor Fiona Wood:** *"Interdisciplinary research leading to discovery"*
- **Professor Valerie Verhasselt:** *"Colostrum: the missing link for happy healthy children?"*
- **A/Professor Ravisha Srinivajois:** *"Gut microbiome and mortality in the postnatal period"*
- **Ms Ashleigh Heng-Chin:** *"Potential clinical outcomes of plastic chemical exposure in pregnant mothers"*





Research Publications



The following research articles involved staff or patients of Joondalup Health Campus and were published in 2022-2023:

1. Azimi, S., et al., *The feasibility of a digital health approach to facilitate remote dental screening among preschool children during COVID-19 and social restrictions*. Int J Paediatr Dent, 2023. 33(3): p. 234-245.
2. Bernard, S., et al., *Include us: doctors with disability call the Royal Australasian College of Physicians to action*. Intern Med J, 2023. 53(6): p. 1091-1092.
3. Berneri, M., F. Murray, and S. Davel, *A rare case of vertebral osteomyelitis with associated epidural abscess complicating BCG immunotherapy for transitional cell carcinoma of the bladder, in IDCases*. 2023, Crown Copyright © 2023 Published by Elsevier Ltd.: Netherlands. p. e01773.
4. Chen, P., et al., *Guidelines on interventions to enhance healing of foot ulcers in people with diabetes (IWGDF 2023 update)*. Diabetes Metab Res Rev, 2023: p. e3644.
5. Cleary, D.B., et al., *A Parent-Mediated Intervention for Newborns at Familial Likelihood of Autism: Initial Feasibility Study in the General Population*. Adv Neurodev Disord, 2022. 6(4): p. 494-505.
6. D'Vaz, N., et al., *The ORIGINS Project Biobank: A Collaborative Bio Resource for Investigating the Developmental Origins of Health and Disease*. Int J Environ Res Public Health, 2023. 20(13).
7. Dai, L., et al., *Primary care Adherence To Heart Failure guidelines IN Diagnosis, Evaluation and Routine management (PATHFINDER): a randomised controlled trial protocol*. BMJ Open, 2023. 13(3): p. e063656.
8. Davis, J.A., et al., *Time-out for well-being: A mixed methods evaluation of attitudes and likelihood to engage in different types of online emotional well-being programmes in the perinatal period*. Womens Health (Lond), 2023. 19: p. 17455057231184507.
9. Davis, J.A., et al., *Understanding Engagement in Digital Mental Health and Well-being Programs for Women in the Perinatal Period: Systematic Review Without Meta-analysis*. J Med Internet Res, 2022. 24(8): p. e36620.
10. Della, P.R., et al., *Risk factors associated with 31-day unplanned hospital readmission in newborns: a systematic review*. Eur J Pediatr, 2023. 182(4): p. 1469-1482.
11. Hammett, C., et al., *Oral Anticoagulant Use in Patients With Atrial Fibrillation and Chronic Kidney Disease: A Review of the Evidence With Recommendations for Australian Clinical Practice*. Heart Lung Circ, 2022. 31(12): p. 1604-1611.
12. Heath, C., et al., *Perioperative intravenous lidocaine use in children*. Paediatr Anaesth, 2023. 33(5): p. 336-346.
13. Ho, S.S.C., et al., *Australasian paediatric gastroenterologist practices of coeliac disease diagnosis before and during the COVID-19 pandemic*. J Paediatr Child Health, 2022. 58(12): p. 2280-2285.
14. Mancini, V.O., et al., *Associations between the human immune system and gut microbiome with neurodevelopment in the first 5 years of life: A systematic scoping review*. Dev Psychobiol, 2023. 65(2): p. e22360.
15. Palmer, D.J., D.T. Silva, and S.L. Prescott, *Maternal peanut and egg consumption during breastfeeding randomized pilot trial*. Pediatr Allergy Immunol, 2022. 33(9): p. e13845.
16. Palmer, D.J., D.T. Silva, and S.L. Prescott, *Feasibility and safety of introducing cashew nut spread in infant diets-A randomized trial*. Pediatr Allergy Immunol, 2023. 34(6): p. e13969.
17. Palmer, D.J., et al., *PrEggNut Study: protocol for a randomised controlled trial investigating the effect of a maternal diet rich in eggs and peanuts from <23 weeks' gestation during pregnancy to 4months' lactation on infant IgE-mediated egg and peanut allergy outcomes*. BMJ Open, 2022. 12(6): p. e056925.
18. Porter, P., et al., *A smartphone-based algorithm comprising cough analysis and patient-reported symptoms identifies acute exacerbations of asthma: a prospective, double blind, diagnostic accuracy study*. J Asthma, 2023. 60(2): p. 368-376.

Research Publications

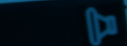
19. Porter, P., et al., *Accuracy, interpretability and usability study of a wireless self-guided fetal heartbeat monitor compared to cardiotocography*. NPJ Digit Med, 2022. **5**(1): p. 167.
20. Ramanathan, A., P. Ramanathan, and A. Saha, *Survey on the use of general practice telehealth services for children during the COVID-19 pandemic*. Aust J Prim Health, 2022. **28**(6): p. 529-534.
21. Rueter, K., et al., *Pre- and Postnatal Vitamin D Status and Allergy Outcomes in Early Childhood*. Biomedicines, 2022. **10**(5).
22. Sakalidis, V.S., et al., *Longitudinal changes in wellbeing amongst breastfeeding women in Australia and New Zealand during the COVID-19 pandemic*. Eur J Pediatr, 2022. **181**(10): p. 3753-3766.
23. Saw, C., et al., *Service evaluation and retrospective audit of electronic HEEADSSS (e-HEEADSSS) screening device in paediatric inpatient service in Western Australia*. Int J Adolesc Med Health, 2022. **34**(6): p. 401-409.
24. Srinivasjois, R.M., et al., *Do adults born preterm deliver preterm babies? A record linkage study from Western Australia*. J Matern Fetal Neonatal Med, 2022. **35**(25): p. 4997-5000.
25. Srinivasjois, R., et al., *Probiotic supplementation in neonates and long-term gut colonisation: A systematic review of randomised controlled trials*. J Paediatr Child Health, 2023. **59**(2): p. 212-217.
26. Tho, A.L.W., et al., *Prevalence of symptomatic tracheal morbidities after fetoscopic endoluminal tracheal occlusion: a systematic review and meta-analysis*. Arch Dis Child Fetal Neonatal Ed, 2023.
27. van den Akker, M., et al., *Children and adolescents are not small adults: toward a better understanding of multimorbidity in younger populations*. J Clin Epidemiol, 2022. **149**: p. 165-171.
28. van Netten, J.J., et al., *Definitions and criteria for diabetes-related foot disease (IWGDF 2023 update)*. Diabetes Metab Res Rev, 2023: p. e3654.
29. Wearne, D., et al., *Visual phenomenology in schizophrenia and post-traumatic stress disorder: an exploratory study*. BJPsych Open, 2022. **8**(4): p. e143.
30. Wylde, J., et al., *Isolated Anemia in a 69-Year-Old Man with HIV-1: Features of Pure Red Cell Aplasia Mediated by Chronic Parvovirus-B19 Infection*. Am J Case Rep, 2022. **23**: p. e936445.
31. Zhou, H., et al., *Consistency of pediatric pain ratings between dyads: an updated meta-analysis and metaregression*. Pain Rep, 2022. **7**(5): p. e1029.

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Current Research¹

ALLIED HEALTH (Dietetics, Occupational Therapy, Physiotherapy, Social Work, Speech Pathology)

- A Phase 3, Multi-Arm, Multi-Stage Covariate-Adjusted, Response-Adaptive, Randomised Trial to determine Optimal Early Mobility Training after Stroke (Avert Dose)
- Australian Diabetes High Risk Foot Service
- Does malnutrition risk affect rehabilitation progress?
- Evaluating implementation and acceptability of embedding E-Health Pregnancy Lifestyle, Activity, Nutrition (PLAN) into routine clinical practice pathways to provide a healthy start to life
- Evaluation of an implementation intervention to enhance national translation of nurse-initiated protocols for fever, hyperglycaemia and swallowing management following stroke: a cluster randomised controlled trial
- Prospective review of outcomes following zone IV extensor tendon repairs – a multi-centred, international study
- The role of executive function in discourse production and health-related quality of life in aphasia
- INTEGRATE - A feasibility trial of stratified Cognitive Functional Therapy for neck and back injuries following road traffic crash

ANAESTHETICS

- Look before you leap: How transthoracic ECHOCardiography before fractured Neck Of Femur saves lives in frail older people – the proposed Pragmatic ECHONOF III trial

CARDIOLOGY and VASCULAR SURGERY

- Classification of chronic heart failure using sound recordings
- Feasibility Study of the Vessel Restoration System (VRS) for the Treatment of Atherosclerotic Lesions in the Superficial Femoral Artery (SFA) and/or Popliteal Artery (PA) after sub-optimal percutaneous transluminal angioplasty (PTA) or artherectomy: REACTIVATE I
- Feasibility Study of the Vessel Restoration System (VRS) for the Treatment of Atherosclerotic Lesions in the Superficial Femoral Artery (SFA) and/or Proximal Popliteal Artery (PPA): ACTIVATE II
- Functional status of survivors of out-of-hospital cardiac arrest in Perth, Western Australia

EMERGENCY MEDICINE

- A validation study to predict poor outcomes following mild traumatic brain injury
- Audit of Paediatric Emergency Surgical Transfers
- Western Australian State Trauma Registry
- Australian Snakebite Project (ASP)
- CREST Concussion Recovery Study
- Drawing blood from a peripheral intravenous cannula and its effect on cannula dwell time, phlebitis, and blood stream infection: A randomised controlled study

GENERAL MEDICINE AND TRAINING

- Diagnostic accuracy in the era of expanded medical tests and an instrumental variable analysis of test ordering

IMMUNOLOGY AND INFECTIOUS DISEASE

- Troublesome Ticks: Determining the aetiology of DSCATT in Australia

INTENSIVE CARE MEDICINE

- ICU Consumer Research Survey
- Short PeRIod IncideNce sTudy of Severe Acute Respiratory Infection (SPRINT-SARI)
- The impact of an m-health recovery program on the mental health and wellbeing of intensive care survivors: A randomized controlled trial

MENTAL HEALTH

- Caring for patients who have used methamphetamine: A pilot study exploring the experiences of West Australian nurses working in an Authorized Mental Health Unit
- The nurse's role in screening for mental health issues in general clinical environments: An evaluation of a Behavioural/Mental Health Screening Tool

NURSING AND MIDWIFERY (Not classified elsewhere)

- Critical Thinking Development in Undergraduate Midwifery Students: An Australasian validation study
- Exploring the impact of a delirium assessment tool on delirium prevalence, outcomes and management during a hospital admission
- Nurse led volunteer support interventions and a technology driven pain assessment for older adults in hospital

¹As at 30 June 2023, based on HREC/RGO approval status

- Perspectives from graduate nurses enrolled in a Graduate Program at a private hospital in Western Australia: A Qualitative Study
- Preparing the nursing workforce for a pandemic response
- Understanding Nurses' perception of their non-technical skills in response to and reporting of clinical deterioration in medical-surgical wards

OBSTETRICS AND GYNAECOLOGY

- Birthing on Country - Connected to Country, Birthing on Country, On Country We Grow
- Environmental Determinants of Islet Autoimmunity (ENDIA)
- Implementation and evaluation of the Connected Maternity Care model: integrating a digital pregnancy management platform for Ramsay Health Care
- Mackenzie's Mission: The Australian Reproductive Carrier Screening Project
- Machine learning approaches for Anatomical Measurement in Fetal Ultrasound Measurements

ONCOLOGY AND HAEMATOLOGY

- An Open-label, Multicenter, Phase 2 Study of Sacituzumab Govitecan Combinations in First-line Treatment of Patients with Advanced or Metastatic Non-Small-Cell Lung Cancer (NSCLC) Without Actionable Genomic Alterations
- Clinical Implementation of Personalised Medicine for West Australian Cancer Patients
- Open-Label, Global, Multicenter, Randomized, Phase 3 Study of Sacituzumab Govitecan Versus Docetaxel in Patients With Advanced or Metastatic Non-Small Cell Lung Cancer (NSCLC) With Progression on or After Platinum-Based Chemotherapy and Anti-PD-1/PD-L1 Immunotherapy
- PACIFIC-R: First real-world data on unresectable stage III NSCLC patients treated with durvalumab after chemotherapy
- Treatment of stage I low rectal cancer in Australia: analysis of trends over 10 years

ORIGINS PROJECTS – OBSTETRICS, PAEDIATRICS AND NEONATOLOGY

- A Family's Journey at Joondalup Health Campus : Analysis of routinely collected data
- A randomised controlled trial: Effect of probiotics on gut microbiome and vaccine responses in newborns with antibiotic-induced dysbiosis (ADAPTS: Antibiotic Dysbiosis and Probiotics Trial in Infants)
- A randomised-controlled trial of a behavioural intervention for optimising social and communication of newborns at high genetic risk of autism spectrum disorders
- A vulnerable airway epithelium: A pilot study to assess recruitment and nasal sampling in newborns
- An intervention to enhance psychological well-being in families from pregnancy to infancy
- BioMood: A pilot study of associations between Mediterranean diet, microbiome, metabolome and mental health in pregnant women
- Breastfeeding and Eating Nuts and Eggs For Infant Tolerance (BENEFIT) Trial
- Built Environments And Child Health in WAles and AuStralia (BEACHES)
- Contribution of a novel mast cell subset to development of atopic disease
- Co-design of the Childhood Responsive, Equitable and Sustainable Health Pathway (CRESH-P), a blended service delivery framework, to improve access to early identification of child developmental needs
- Deciphering Bifidobacterium diet- immune interactions in global infant populations
- Diabetes during pregnancy and subsequent child development: A 3-year follow up study
- Early Moves Study
- Examining subfertility in a prospective birth cohort
- Flourishing in Fatherhood
- Helping new mothers to breastfeed - before their babies are even born
- Importance of early breastfeeding practice for healthy development
- IRON Child: Low iron, iron supplementation and child health outcomes

Current Research

- Kindy readiness in the ORIGINS cohort
- Maternal and Neonatal Factors Affecting Neonatal Body Fat Percentage
- Maternal diet quality and dietary intake during and after pregnancy and the impact on nutrition-related maternal, infant and childhood health outcomes and healthcare utilisation
- Maternal diet rich in eggs and peanuts to reduce food allergies: a randomised controlled trial (PrEggNut Study)
- MULTIDIMENSION-ALL - the use of 2, 3 and 4D facial and non-facial image analysis for rare and more common disorders
- Mums minds matter: A pilot study of antenatal mindfulness and self-compassion training to reduce maternal stress and support wellbeing
- ORIGINS Community Wellbeing during the COVID-19 Pandemic – Part B: ORIGINS Team, Collaborators and Joondalup Health Campus Staff
- Origins of neurodevelopmental risk and resilience: Examining neurodevelopmental trajectories of infants in the ORIGINS cohort
- Screen ORIGINS: First longitudinal study of the multidimensional influences and impacts of contemporary screen technology use over the first five years of life
- Screen ORIGINS: Qualitative investigation of parental views and practices regarding screen technology use by young children
- Tele-screening for tooth decay in early childhood during COVID-19 pandemic
- Testosterone and Language in Kids (TALK) Study
- The Airway Epithelium Respiratory Illnesses and Allergy “AERIAL” Study Vulnerable from the first breath – epithelial dysfunction and respiratory outcomes in children
- The Cardiovascular Risk Evaluation in expectant fathers (CARE-Dads) Study
- The COVID COMMUNITY COMPASSION Study (COCOON): Assessing virus transmission immunity development and wellbeing of families during COVID-19
- The Flourishing ORIGINS Child - Phase 1: stakeholder consultation and co-design – understanding the determinants of flourishing in the early years
- The Impact of a Mediterranean diet and physical activity in pregnancy on gestational weight gain and neonatal body composition at birth and weight at 1 year of age
- The Nature Play & Grow Project: an ORIGINS sub-project
- The ORIGINS Project: A healthy start to life for a better future
- The PLANET Project - PLAstics iN prEgnancy Project
- The STORK Project (STress biOmaRKers) A pilot retrospective observational study to assess biomarkers of stress and serotonin pathways in pregnant women in the ORIGINS Project
- The SYMBA study: Improving gut biodiversity with soluble fibre and probiotic supplementation in early life to prevent allergic disease
- Time Out for Wellbeing: an experimental study within the ORIGINS Project pregnancy cohort
- The effects of chlorinated drinking water on the assembly of the infant gut microbiome: Water Quality and the Microbiome (TUM) Study
- Understanding how a childhood burn can change your life trajectory
- Urinary ferritin as a non-invasive means of assessing iron status in children
- Validating the Global Scale for Early Development in Western Australia Plus project (PLAN Project) which is listed under Allied Health

ORTHOPAEDICS

- Assessment of Postoperative Pain Management in the Intermediate Period Following Unilateral Total Knee Arthroplasty
- DISTINCT: Dual Mobility Versus Standard Total Hip Arthroplasty In Femoral Neck Fractures, A Registry-Nested, Cluster-randomised Trial
- Effect of arthroscopic femoroacetabular impingement surgery on pelvic tilt (FAI)
- Functional lower limb torsion and its implications on the level of osteotomy: a CT rotational profile study
- Investigating the pharmacodynamics of the acetylcholine-esterase inhibitors and therapeutic benefits on osteoporotic bone

- Prospective, monocentric study to assess stability of a tapered cemented short stem
- Perth Shoulder Protocol: Accuracy of intra-operative measures of humeral version in shoulder arthroplasty
- National Joint Replacement Registry

PAEDIATRICS AND NEONATOLOGY

- A Respectful Approach to early parenting: Impact on parent and child wellbeing
- A cross-sectional observational study on the aetiology of otitis media in Western Australia: The OMinWA Study
- Children's participation in the decision-making process during hospitalisation
- Cognitive Improvement by early Restoration of circadian rhythms in very preterm Infants through Environmental Modification: The CIRCA DIEM Study
- Contemporary Idiopathic Childhood Constipation Health Education within the Primary Health Care Setting and its Utilisation by Families living in Perth, Western Australia: A Mixed Methods Study
- Enhancing Management of Perioperative High risk patients through Assessment of oxygen Saturation and Sleep quality (EMPHASIS)
- Environmental and lifestyle changes in the antenatal population over the past three decades: A comparative study utilizing Raine Study and Joondalup Health Campus birth cohort data
- Escalation: Unifying systems for recognition and response to paediatric clinical deterioration in Western Australia
- Father's Matter: Fathers experiences of caring for their late preterm infants in the neonatal unit
- Group A Streptococcus Infections in Children
- Safely Preventing Errors and Complications due to Inappropriate Allergy Labelling: The SPECIAL Study – The Paediatric Study
- The Clinical experience of children and adolescents admitted to hospital with COVID-19 in Western Australia: A State-wide Collaboration

REHABILITATION AND GERIATRICS

- Australian and New Zealand Hip Fracture Registry (ANZHFR)

RENAL MEDICINE/UROLOGY

- Variation in Computed Tomography scan interpretation of renal and ureteric calculi

RESPIRATORY MEDICINE

- Diagnosis of respiratory illness using non-contact sound recordings

STROKE SERVICE

- Risk factors associated with the self-removal of nasogastric tubes within the acute stroke population on the stroke ward. A single site retrospective file audit.
- The impact of attention on mobility for patients under 65 years with posterior circulation stroke
- The Australian Stroke Clinical Registry

SURGERY (Including Ear, Nose and Throat Surgery)

- Binational Colorectal Cancer Audit
- Establishment of a Bariatric Surgery Clinical Quality Registry
- Histology in Post Tonsillectomy Haemorrhage
- Opioid Prescriptions and Usage After Surgery (OPERAS)
- Reliability of estimating blood loss in epistaxis and the value of a visual aid
- Surgical management of pilonidal sinus disease: a retrospective cohort study

Joondalup Health Campus acknowledges the Whadjuk people of the Noongar Nation as the
Traditional Custodians of the lands upon which we are located.
We pay our respects to Elders past and present.



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