


Research Report 2023-2024





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.

Contents

4	Introduction from the Director of Research
5	Research Highlights
6	Research & Clinical Trials Department
6	Research Support
6	Clinical Trials Unit
7	Ramsay Health Care WAISA Human Research Ethics Committee
7	RHC WAISA HREC Member List – 2023-2024
7	Research Approved Using a Waiver of Consent
8	Research Snapshots
8	Clinical Trials Unit
9	Research Month 2023
10	Current Research
14	Research Publications

Introduction

Introduction From the Director of Research

Welcome to the 2023-24 Joondalup Health Campus Research Report.

In any organization, research and innovation represents the mechanism by which continual improvement is made to work practices. By undertaking research at our hospital, Joondalup Health Campus continues to explore innovative ways to provide the best care to our patients.

The past 12 months have continued to see growth in clinical trials activity at the hospital with the diversification of research into a number of new clinical specialties. This has included areas such as anaesthetics, paediatrics and neurology. There are now 15 clinical trials currently underway across the site.

The Research and Clinical Trial Unit has also been well placed to support the initiation of other research activity at the hospital, allowing our clinicians to collaborate with researchers who are based at universities and research institutes, locally, nationally and internationally. In total there are more than 80 research projects underway at Joondalup Health Campus.

Over the past 12 months, The ORIGINS Project, the flagship collaboration with the Telethon Kids Institute, has continued to collect routinely collected information from babies born at Joondalup Health Campus. The ORIGINS Project has been an amazing undertaking at Joondalup Health Campus and represents an immense repository of information about the young children and families of the Joondalup and Wanneroo areas and a valuable resource for researchers both near and far.

We thank the Ramsay Hospital Research Foundation and the hospital Executive for their support of the research portfolio at Joondalup Health Campus. We look forward to the coming 12 months as a period of consolidation as we plan for the future growth and development of the research portfolio at the site and develop strategic priorities around the research conducted at our hospital.

We thank the clinicians and researchers at Joondalup Health Campus for their continued commitment to providing excellence in patient care and importantly thank the participant volunteers for giving up their time to be involved in our research.

Professor Desiree Silva

Director of Research
Joondalup Health Campus

Prof. Desiree Silva





25

Research
publications
in medical journals

2023-2024

>80

>80 research projects
currently underway

15

15 Clinical trials currently
underway



Research in:

- Anaesthetics
- Cardiology
- Dietetics
- Emergency Medicine
- Intensive Care Medicine
- Mental Health
- Neurology
- Nursing
- Midwifery
- Obstetrics
- General Surgery
- Oncology
- Paediatrics
- Neonatology
- Occupational Therapy
- Orthopaedics
- Podiatry
- Physiotherapy
- Rehabilitation
- Vascular Surgery
- Stroke Service
- Speech Pathology

Research & Clinical Trials Department

2023-24 has seen a period of change for the Research Department – for the first time in more than 25 years, there have not been staff onsite managing the Human Research Ethics Committee - a function which has been assumed by the National Research Unit (effective 1 January 2024.) The official name of the Department is now the Research and Clinical Trials Department which better reflects the department's function going forward.

Although research activity has typically been somewhat removed from clinical practice, the implementation of the National Clinical Trials Governance Framework, has necessitated continued integration of research procedures into clinical systems and formed a key focus area for the department over the previous 12 months.

At the end of June 2024, there were >80 research projects underway across the hospital, including seven being run through the Joondalup Health Campus Clinical Trial Unit (JHC CTU).

Key achievements over the previous 12 months included:

- Diversifying the clinical trials portfolio to include medical specialties outside of oncology;
- Incorporating all clinical trials run through the JHC CTU into a Clinical Trial Management System (CTMS) allowing improved oversight of clinical trial metrics and finance;
- Obtaining funding from the Future Health Research and Innovation Fund (FHRI) to provide for research infrastructure at JHC;
- Facilitating future innovators by hosting participants of the Perth BioDesign course;
- Providing support to researchers undertaking small research projects at the hospital;
- Ready 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.

Research Support

Launched in 2022, the Research Department has been able to provide support to a number of research projects for statistical support, publication fees or other incidental expenses. In 2023-24, the following project was provided with funding:

- Does malnutrition risk affect rehabilitation progress? Dr Ellen Paynter, Dietetics – for biostatistical support

Clinical Trials Unit

The Clinical Trials Unit at Joondalup Health Campus has continued to grow over the past 12 months and now has seven open clinical trials. While the unit still has a strong focus on oncology trials, the unit has expanded to include clinical trials in other medical specialties, including paediatrics and anaesthetics.

As at 30 June 2023, the Clinical Trials Unit at JHC was undertaking the following clinical trials:

- Look before you leap: How transthoracic ECHOCardiography before fractured Neck Of Femur saves lives in frail older people – the proposed Pragmatic ECHONOF III trial
- A Phase III, randomized, double-blind, Placebo-controlled, multicenter study to Evaluate the efficacy, safety, Pharmacokinetics, and pharmacodynamics of satralizumab as monotherapy or in addition to baseline therapy in patients with myelin oligodendrocyte glycoprotein Antibody-associated disease (MOGAD)
- 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
- An Open-Label, Phase 2b, Global Multicenter Cohort Trial to Assess the Safety and Efficacy of Zipalertinib in Patients with Locally Advanced or Metastatic Non-Small Cell Lung Cancer with Exon 20 Insertion and Uncommon/Single or Compound Epidermal Growth Factor Receptor Mutations
- PACIFIC-R: First real-world data on unresectable stage III NSCLC patients treated with durvalumab after chemotherapy
- A Phase 3, 24-week, randomized, double-blind, parallel-group Bayesian Dynamic Borrowing study comparing the efficacy, safety, tolerability and pharmacokinetics of FF/UMEC/VI with FF/VI in 12-17-year-old participants with inadequately controlled asthma on stable maintenance therapy with ICS/LABA
- A Phase 2/3, Randomised, 3-part study to investigate the efficacy and safety of dupilumab in adult and adolescent patients with eosinophilic gastritis with or without eosinophilic duodenitis

And providing administrative support to:

- Wait a Minute or More: A pragmatic stepped wedge cluster randomised implementation trial

There are a total of 15 clinical trials underway across the hospital, trialling interventions to provide our patients with the best care.



Joanna Brisbane

Manager, Research &
Clinical Trials Department,
Joondalup Health Campus

Ramsay Health Care WAISA 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. Between 1 July and 31 December 2023, the RHC WAISA HREC reviewed five full applications to conduct research projects alongside a number of requested amendments to existing studies.

The RHC WAISA HREC is 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.

RHC WAISA HREC Member List – 1 July 2023 – 31 December 2023:

Chairperson (NS5.1.30a)

- Dr Peter Melvill-Smith

Layperson – Male (NS5.1.30b)

- Mr Tim Benson
- Mr Peter Erskine (*resigned December 2023*)

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 (*resigned December 2023*)
- Ms Sarah Oplaat (*resigned December 2023*)

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

- Ms Sandy Kilpatrick
- Ms Cate Vose (*resigned November 2023*)

A lawyer

- Mr Bruce Kent

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

- Dr Terry Bayliss
- Dr Joe Cardaci
- Dr Tracey Coventry (*resigned December 2023*)
- Dr David Holthouse
- Dr Sarah Harris
- A/Professor Paul Porter

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.

There were no requests for participant consent to be waived in the period 1 July to 31 December 2023.

Thank you to past and present HREC members

As of 31 December 2023, support services for the HREC were centralised at the Ramsay Health Care National Research Unit. This represents the first time in more than 25 years that there have been no ethics support staff at Joondalup Health Campus. I would like to extend my sincere thanks to all HREC members, past and present, who generously donated their time and expertise to ensure the provision of high-quality, ethical research across Ramsay Health Care sites.



Dr Peter Melvill-Smith

Ramsay Health Care WAISA HREC
Chairperson

Research Snapshots

Clinical Trials Unit

A clinical trials unit was established at Joondalup Health Campus early in 2022 and now conducts seven clinical trials and provides administrative support for another.

The day-to-day activities of a clinical trial coordinator are many and varied: from ensuring compliance with the various ethical and governance frameworks, interviewing patients and interpreting medical information, ascertaining potential eligibility for a trial and conducting clinical observations and recording the data collected accurately. Encompassing clinical skills, interpersonal skills and the ability to coordinate multiple services across tight schedules, the clinical trial coordinator skillset is unique and, at present, is one where there is no readily discernible career trajectory. Indeed, the clinical trial staff at Joondalup Health Campus, come from a diverse set of backgrounds including nursing, science and data management.

As part of refinements in the conduct of clinical trials in Australia by the Australian Commission on Safety and Quality in Health Care, all hospitals will soon be required to undergo regular reviews of the manner in which clinical trials are conducted at their site. Hospitals will be accredited against a governance framework for clinical trials in a manner similar to the way that clinical care practices are currently monitored. In this way, clinical trial participants can be assured that the clinical trial service that they are attending is providing a safe service that is of high quality. Joondalup Health Campus will undergo its initial accreditation for clinical trials services sometime in the latter part of 2024.



Clinical Trials Staff

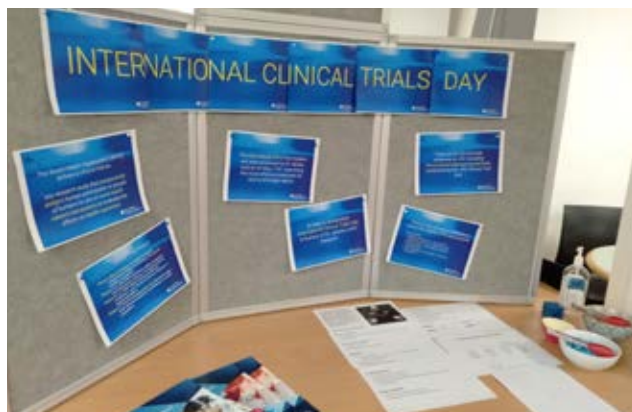
Research Month 2023

Research Snapshots

In 2023, the Research Event shone the spotlight on research in two distinct clinical areas: namely Mental Health and Paediatrics. We were fortunate enough to have a number of external researchers present on the research they have undertaken in these two disciplines:

- **Mental Health** - Outcomes of the Perth Children's Hospital EXPAAND Project - A/Professor Yulia Furlong
- **Paediatrics** - An update on autism research and practice: Major changes afoot! - A/Professor Andrew Whitehouse

We were also fortunate to have a varied group of Joondalup Health Campus-based researchers present their research to staff on site, including **Professor Desiree Silva (Paediatrics)** and **Dr Peter Melvill-Smith (Psychiatry)**, plus a number of up-and-coming researchers embarking on PhDs across the hospital (**Evania Marlow (Dietetics)**, **Tor Topping (Intensive Care)**, **Dr Ravisha Srinivasjois (Neonatology)** and **Maheshwar Bhasin (Paediatrics)**).



The following posters were submitted to the Ramsay Health Care's National Research e-Poster Competition:

1. **Amber Beynon** - Are maternal and child digital technology use related to child development?
2. **Annie Chang** - Experiences of fathers in caring for preterm infants in the Australian neonatal unit
3. **Desiree Silva** - Creating A Platform To Increase Research Capacity To Better Understand Childhood Neurodevelopmental Disorders
4. **Emily Seegers** - Flourishing Fathers: Physiological and psychological health trajectories from pregnancy to early childhood
5. **Eric Simillion** - Reducing Radiation Dose During Coronary Angiography
6. **Lisa Gibson** - Families From The Origins Project: Community Wellbeing And Experiences During A Pandemic
7. **Maheshwar Bhasin** - Non- exclusive colostrum feeding increases the risk of Peanut allergy sensitization
8. **Melinda John** - Speech Pathology Outpatients And Their Support Persons Impressions And Satisfaction With Telehealth Services
9. **Nina D'Vaz** - The ORIGINS Project Biobank: Sample Collections And Utilization Upon Reaching A Project Recruitment Milestone
10. **Nivedithaa Divakara** - Gateway to allergy prevention - Promoting an immunomodulatory breastmilk profile with maternal prebiotic supplementation
11. **Poonam Pannu** - The ORIGINS Project: How Does Our Infant Feeding Profile Compare To National Rates?
12. **Ravisha Srinivasjois** - Probiotics in the neonatal period and long term effects on hospitalisation in infancy: A data linkage study from WA
13. **Sarah Baidon** - Dynamic diagnostics: Do videofluoroscopic evaluations change swallowing management at Joondalup Health Campus?
14. **Sarah Bennett** - The impact of attention on mobility for adults under 65 years with posterior circulation stroke
15. **Zenobia Talati** - The ORIGINS Project: Pregnancy And Birth Profile

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?
- 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

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

- 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

- CREST Concussion Recovery Study
- The acute management of common fractures in adults in the emergency department: A survey of clinician practice
- Western Australian State Trauma Registry

INTENSIVE CARE MEDICINE

- ICU Consumer Research Survey

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

NEUROLOGY

- A Phase III, randomized, double-blind, Placebo-controlled, multicenter study to Evaluate the efficacy, safety, Pharmacokinetics, and pharmacodynamics of satralizumab as monotherapy or in addition to baseline therapy in patients with myelin oligodendrocyte glycoprotein Antibody-associated disease (MOGAD)

NURSING AND MIDWIFERY (Not classified elsewhere)

- Critical Thinking Development in Undergraduate Midwifery Students: An Australasian validation study
- Nurse led volunteer support interventions and a technology driven pain assessment for older adults in hospital
- 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
- Implementation and evaluation of the Connected Maternity Care model: integrating a digital pregnancy management platform for Ramsay Health Care
- Machine learning approaches for Anatomical Measurement in Fetal Ultrasound Measurements
- Wait a Minute or More: A pragmatic stepped wedge cluster randomised implementation trial

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
- An Open-Label, Phase 2b, Global Multicenter Cohort Trial to Assess the Safety and Efficacy of Zipalertinib in Patients with Locally Advanced or Metastatic Non-Small Cell Lung Cancer with Exon 20 Insertion and Uncommon/Single or Compound Epidermal Growth Factor Receptor Mutations
- Clinical Implementation of Personalised Medicine for West Australian Cancer Patients
- PACIFIC-R: First real-world data on unresectable stage III NSCLC patients treated with durvalumab after chemotherapy

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
- Built Environments And Child Health in WalEs and AuStralia (BEACHES)
- 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
- 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
- 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
- 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
- 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 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
- 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

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
- National Joint Replacement Registry

PAEDIATRICS AND NEONATOLOGY

- A Phase 3, 24-week, randomized, double-blind, parallel-group Bayesian Dynamic Borrowing study comparing the efficacy, safety, tolerability and pharmacokinetics of FF/UMEC/VI with FF/VI in 12-17-year-old participants with inadequately controlled asthma on stable maintenance therapy with ICS/LABA
- A Phase 2/3, Randomised, 3-part study to investigate the efficacy and safety of dupilimab in adult and adolescent patients with eosinophilic gastritis with or without eosinophilic duodenitis
- A cross-sectional observational study on the aetiology of otitis media in Western Australia: OMinWA
- 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
- Cognitive Improvement by early Restoration of circadian rhythms in very preterm Infants through Environmental Modification: The CIRCA DIEM 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

- The SYMBA study: Improving gut biodiversity with soluble fibre and probiotic supplementation in early life to prevent allergic disease

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

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
- Opioid Prescriptions and Usage After Surgery (OPERAS)

Research Publications



The following research articles involved staff or patients of Joondalup Health Campus and were published in 2023-2024:

1. Aboobacker Kaniyamparambil, R., et al., *Health concerns of intensive care survivors and research participation willingness: A multicentre survey*. Crit Care Resusc, 2024. **26**(2): p. 95-99.
2. Alexander, C., et al., *Inter-rater reliability and agreement of the General Movement Assessment and Motor Optimality Score-Revised in a large population-based sample*. Early Human Development, 2024. **193**: p. 106019.
3. BAZimi, S., et al., *Experience of primary caregivers in utilising an mHealth application for remote dental screening in preschool children*. Aust Health Rev, 2023. **47**(5): p. 545-552.
4. Chen, P., et al., *Health Literacy predicts incident foot ulcers after 4 years - the SHELLED cohort study*. J Foot Ankle Res, 2023. **16**(1): p. 45.
5. Chen, P., et al., *Effectiveness of interventions to enhance healing of chronic foot ulcers in diabetes: A systematic review*. Diabetes Metab Res Rev, 2024. **40**(3): p. e3786.
6. Chen, P., et al., *Guidelines on interventions to enhance healing of foot ulcers in people with diabetes (IWGDF 2023 update)*. Diabetes Metab Res Rev, 2024. **40**(3): p. e3644.
7. Cuffe, C., et al., *Study Protocol for a Stepped-Wedge Cluster (Nested) Randomized Controlled Trial of Antenatal Colostrum Expression (ACE) Instruction in First-Time Mothers: The ACE Study*. Journal of Human Lactation, 2024. **40**(1): p. 80-95.
8. 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).
9. Davis, J.A., et al., *Perinatal Women's Perspectives of, and Engagement in, Digital Emotional Well-Being Training: Mixed Methods Study*. J Med Internet Res, 2023. **25**: p. e46852.
10. Gowda, B.B., et al., *Outcomes of Neonates with Hypoxic-ischemic Encephalopathy Treated with Magnesium Sulfate: A Systematic Review with Meta-Analysis*. J Pediatr, 2023: p. 113610.
11. Hood, R., et al., *"It helps and it doesn't help": maternal perspectives on how the use of smartphones and tablet computers influences parent-infant attachment*. Ergonomics, 2024. **67**(2): p. 148-167.
12. Jones, J.M., et al., *Maternal prebiotic supplementation during pregnancy and lactation modifies the microbiome and short chain fatty acid profile of both mother and infant*. Clin Nutr, 2024. **43**(4): p. 969-980.
13. Kicic-Starceovich, E., et al., *Airway epithelium respiratory illnesses and allergy (AERIAL) birth cohort: study protocol*. Front Allergy, 2024. **5**: p. 1349741.
14. Mayne, A.I.W., et al., *Modern multiligament knee injury surgical reconstruction techniques can achieve excellent knee function and patient satisfaction, with low complication rates*. Knee Surg Sports Traumatol Arthrosc, 2024.

15. Moumin, N.A., et al., *Urinary Ferritin as a Noninvasive Means of Assessing Iron Status in Young Children*. J Nutr, 2024.
16. Ng, T.T.W., S. Davel, and K.D. O'Connor, *Sulfasalazine-Induced Delayed Hypersensitivity Reaction Presenting as Fever, Aseptic Meningitis, and Mesenteric Panniculitis in a Patient with Seronegative Arthritis*. Am J Case Rep, 2023. **24**: p. e941623.
17. Ngune, I., et al., *Nursing assessment of mental health issues in the general clinical environment: A descriptive study*. J Adv Nurs, 2024.
18. Parkin, K., et al., *Metagenomic Characterisation of the Gut Microbiome and Effect of Complementary Feeding on Bifidobacterium spp. in Australian Infants*. Microorganisms, 2024. **12**(1).
19. Parkin, K., et al., *Metagenomic Characterisation of the Gut Microbiome and Effect of Complementary Feeding on Bifidobacterium spp. in Australian Infants*. Microorganisms, 2024. **12**(1): p. 228.
20. Rowley, C.E., et al., *Altered dietary behaviour during pregnancy impacts systemic metabolic phenotypes*. Front Nutr, 2023. **10**: p. 1230480.
21. Sharp, S., et al., *Spontaneous Intracranial Hypotension: An Uncommon Cause of Postural Vestibulocochlear Symptoms*. Ear Nose Throat J, 2023: p. 1455613231194431.
22. Srinivasjois, R., et al., *Probiotic Supplementation in the Neonatal Age Group and the Risk of Hospitalisation in the First Two Years: A Data Linkage Study from Western Australia*. Nutrients, 2024. **16**(13).
23. Stevens, R., et al., *Associations between sun exposure, skin pH, and epidermal permeability in pregnancy: A longitudinal observational study*. Photochemistry and Photobiology. **n/a**(n/a).
24. van Netten, J.J., et al., *Definitions and criteria for diabetes-related foot disease (IWGDF 2023 update)*. Diabetes Metab Res Rev, 2024. **40**(3): p. e3654.
25. Ward, B.K., et al., *Case Presentation: Functional Assessment of a CASR Variant Identified in a Patient with Hypercalcaemia Confirms Familial Hypocalciuric Hypercalcaemia in the Patient and a Sister Previously Misdiagnosed with Primary Hyperparathyroidism*. Case Rep Endocrinol, 2024. **2024**: p. 6652801.



Joondalup Health Campus

Part of Ramsay Health Care

Research & Clinical Trials Department

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People caring for people.