

Research Report 2019-2020



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Introduction

A message from the A/Chief Executive Officer

Welcome to the Inaugural Joondalup Health Campus Research Report, designed to showcase the breadth of research undertaken at Joondalup Health Campus in 2019-2020.

Providing excellence in health care lies at the core of what we do. Research underpins our culture of continuous improvement and allows us to provide the best evidence-based care for our patients. By embedding research practice within the healthcare system and innovating at the bedside, we are allowing research priorities to be set and outcomes to be realised where they matter most.

Joondalup Health Campus has enjoyed an active research program dating back more than 20 years and there are currently more than 100 projects underway across our campus. These projects span a variety of disciplines including paediatrics, emergency medicine, oncology, nursing and mental health. A number of our specialists are also contributing to the international scientific community – with almost 40 studies involving patients or staff from our hospital being published in the international medical literature over the past 12 months.

We are pleased to present an overview of how we are continuing to innovate our practices and explore better ways to provide care to our patients.

Dr Amanda Ling

Acting Chief Executive Officer
Joondalup Health Campus

Providing
excellence in
health care lies
at the core of
what we do



Dr Ling



37

Research Publications

>100

>100 projects currently underway

>2000

>2000 research participants recruited over the past 12 months

>15

Research occurred across **>15 medical specialties**

31

31 applications were submitted to RHC HRECs for research to be conducted at JHC

50%+

More than 50% of completed research projects recommended a change in clinical practice as a result of their research findings, including:



Embedding an e-health application for managing prenatal diet into routine care;



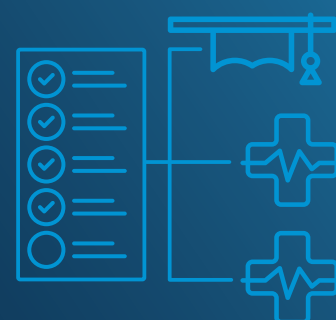
Making recommendations to allow easier blood collections in the ED;

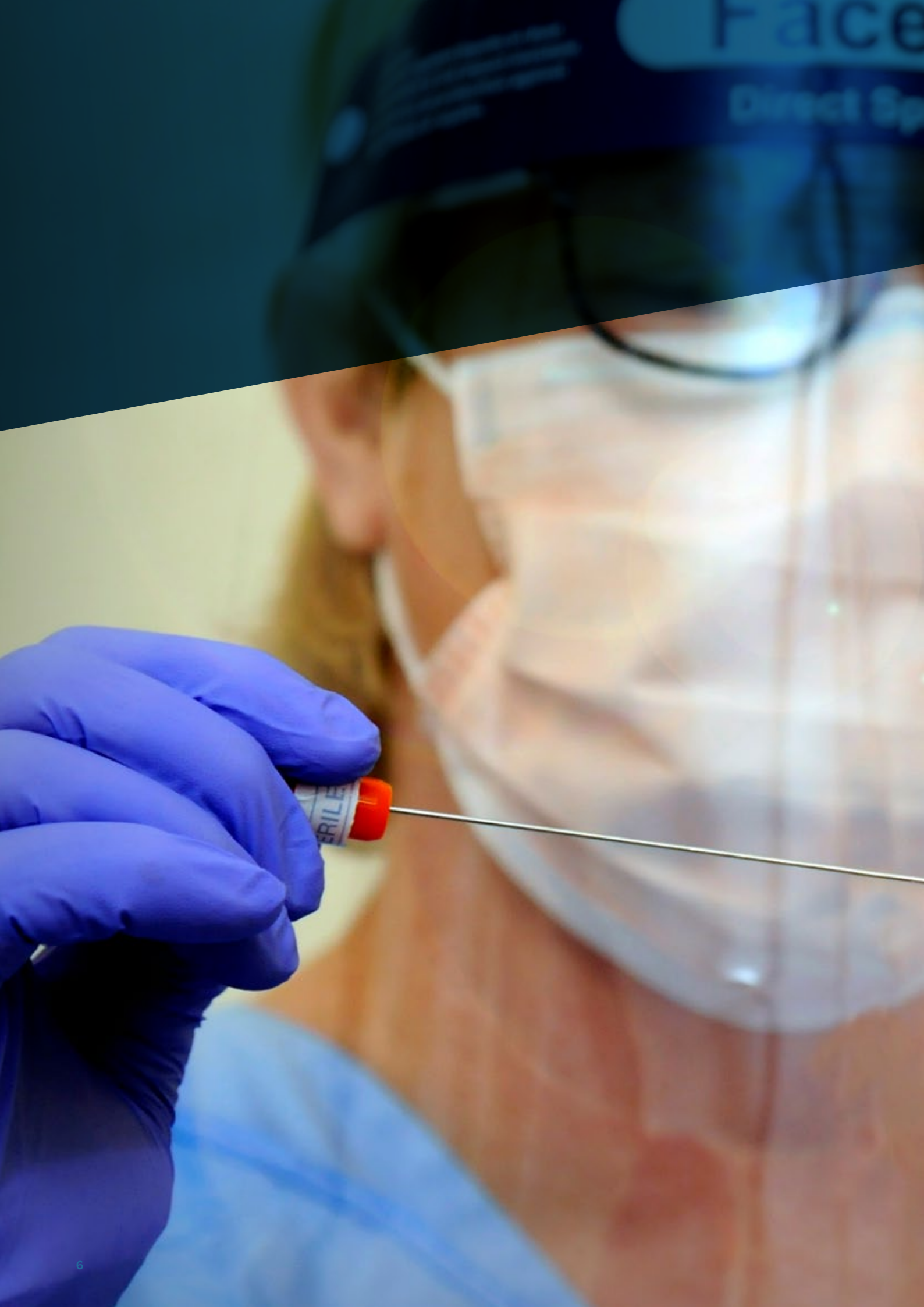


Improving educational resources for stoma patients and their caregivers.

80%+

More than 80% of projects approved in 2019-20 involved collaborators from other hospitals or universities





Face
Direct Sp



Research Snapshots

Exploring the link between early life experiences and non-communicable diseases

Understanding early life experiences to provide a healthy start to life – The ORIGINS Project

Professor Desiree Silva, Paediatrician



The ORIGINS Project is a partnership between Joondalup Health Campus (JHC) and the Telethon Kids Institute exploring the link between early life experiences, and conditions such as autism, asthma, allergies and other non-communicable diseases. The project draws on the collective experience of a number of disciplines within the hospital as well as scientific expertise from universities and research institutes. As a platform for future studies, the ORIGINS Project has attracted interest from researchers across the world and around 20 sub-projects are currently active - focusing on different aspects of antenatal and early childhood development.

The ORIGINS Project operates as a comprehensive data and biobank that will involve 10,000 families from the antenatal period to 5 years of age – a period that has been identified as critical in shaping health beyond the child into adulthood. As a unique project whereby recruitment and interventions are embedded in clinical practice at JHC, the research team are able to deliver relevant and timely feedback to ORIGINS participants to allow appropriate interventions to improve a child's start to life.

The implications of the ORIGINS Project are broad reaching. Already changes are being made as a result of findings from the sub-projects. This includes roll-out of a smartphone application giving lifestyle and dietary support for pregnant women at JHC, referral of a number of fathers to psychological or psychiatric services for additional care, support from a lactation consultant to establish and support breastfeeding, and the identification and referral of babies for early intervention on the basis of their specialist assessment. At their one year check-up, a large proportion of babies have had advice on development, sleep, food allergies and eczema and 17% have been referred for specialist services.



Professor Silva

Identifying patient preferences in oncology treatment

Dr Arman Hasani, Oncologist



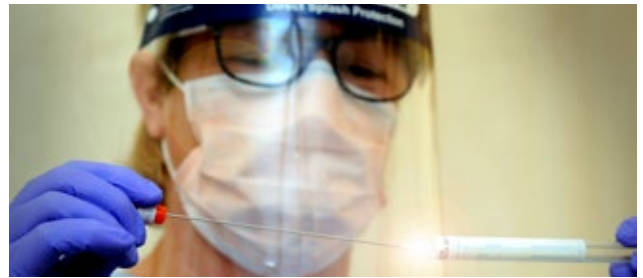
Issues including convenience, outcomes, cost, and continuity of care are all potentially important to patients undergoing chemotherapy. The oncology department at Joondalup Health Campus was recently involved in an Australia-wide study to determine which aspects of a chemotherapy service are most important to an older population.

The study team surveyed more than 1000 people without cancer across Australia and identified a strong preference for home-based chemotherapy, for follow-up by a specialist, for psycho-social support, and for low cost care.

Identifying the aspects which are important to patients will be essential in shaping oncology services to suit the needs of the local community and provide appropriately tailored care.

Rapidly adapting to a changed world – COVID-19 Research

Dr Jonathan Chambers, Infectious Diseases Physician and Clinical Microbiologist



Joondalup Health Campus (JHC) was responsible for the treatment of a number of COVID-19 positive patients in April 2020 and our researchers used this opportunity to learn more about the relatively unknown disease.

Our research focus rapidly pivoted to encompass a wide range of issues relating to COVID-19 including an evaluation of the infection control procedures that were implemented to protect our front-line staff. This research demonstrated that our infection control measures had been effective and there had been no transmission of the virus to our staff.

Ongoing research relating to COVID-19 at JHC is now evaluating the impact of the pandemic on mental health, exploring how existing treatment and management options may be extended to treat the disease, validating new testing methodologies for COVID-19 and examining the way the immune system responds in patients with the disease. In this way, JHC is able to contribute to the growing picture of this disease.



Dr Hasani



Dr Chambers

Determining the best way to deliver pain relief after knee surgery

Dr Brian Hue, Anaesthetist



This clinical trial examined how functional outcomes differed for patients who had undergone total knee arthroplasty using two different locations (adductor canal (AC) vs femoral triangle (FT)) for the delivery of analgesia.

By comparing outcomes in a systematic manner, the researchers were able to demonstrate that there were no differences in immediate postoperative functional mobility, analgesia, and opioid consumption provided by catheters inserted into the AC vs FT locations for total knee arthroplasty surgery.

Using large datasets to inform practice – Clinical Registries

Ms Glynis Porter, Registry Coordinator

Clinical registries collect standardised health-related information to allow for the monitoring of health conditions, procedures or specialties and to ensure that the hospital is meeting specified standards in the quality of care that it provides. The collation of a vast number of data points allows for the recognition of overall performance trends and for the identification of factors which may affect patient outcomes. By contributing data in this manner, feedback can be also be made on an individual level to clinicians and health services to inform practice and improve patient care.

Joondalup Health Campus contributes data to a number of large registries across a range of specialties and conditions including:

- [Australian and New Zealand Hip Fracture Registry](#)
- [Western Australian State Trauma Registry](#)
- [National Joint Replacement Registry](#)
- [The Bariatric Surgery Registry](#)
- [Australian Stroke Clinical Registry](#)
(Ethics approval pending)

Comparing outcomes
in a systematic manner
to determine the best
way to deliver pain
relief to patients

Dr Hue





Using a smartphone to diagnose respiratory conditions

Dr Paul Porter, Paediatrician

Dr Scott Claxton, Sleep and Respiratory Consultant

Respiratory conditions such as pneumonia, COPD and asthma represent significant causes of morbidity and mortality and are commonly seen among patients presenting to hospital. Despite their prevalence, respiratory conditions can be difficult to diagnose and often require the use of specialised diagnostic equipment such as x-rays, spirometry or laboratory assessment.

Researchers at Joondalup Health Campus, in collaboration with biomedical engineers at the University of Queensland & ResApp Pty Ltd, have developed a smartphone-based app which can identify respiratory conditions in children and adults with high accuracy. The app evaluates the sound signatures of five cough sounds provided by the patient along with up to five patient-reported symptoms. There is potential to use the app in teleconference consultations to assist in diagnosis.



Development of a smartphone-based app which can identify respiratory conditions with high accuracy



Research Publications



The following research articles involved staff or patients of Joondalup Health Campus and were published in 2019-2020:

1. Allanson, E.R., et al., Morbidity after surgical management of cervical cancer in low and middle income countries: A systematic review and meta-analysis. PLoS One, 2019. 14(7): p. e0217775.
2. Armstrong, G.P., Empagliflozin-Mediated Lithium Excretion: A Case Study and Clinical Applications. Am J Case Rep, 2020. 21: p. e923311.
3. Beh, H.N. and Y.F. Ongso, Large inguinoscrotal hernia containing ureter: reminder to General Surgeons. J Surg Case Rep, 2020. 2020(5): p. rjaa077.
4. Beh, H.N., Y.F. Ongso, and D.B. Koong, Transmesocolon internal hernia masking as simple sigmoid volvulus. J Surg Case Rep, 2020. 2020(3): p. rjaa017.
5. Bourke, J., et al., Predicting Long-Term Survival Without Major Disability for Infants Born Preterm. J Pediatr, 2019.
6. Briggs, E.N., et al., Small volume vacuum phlebotomy tubes: a controlled before-and-after study of a patient blood management initiative in an Australian adult intensive care unit. Crit Care Resusc, 2019. 21(4): p. 251-57.
7. Buckley, N., et al., Prevalence estimates of mental health problems in children and adolescents with intellectual disability: A systematic review and meta-analysis. Aust N Z J Psychiatry, 2020: p. 4867420924101.
8. Chuan, A., et al., Adductor canal versus femoral triangle anatomical locations for continuous catheter analgesia after total knee arthroplasty: a multicentre randomised controlled study. Br J Anaesth, 2019.
9. Faraj, J., A. Daneshmand, and B.P. Mwipatayi, Large spontaneous median sacral artery pseudoaneurysm masquerading as hip pain. J Vasc Surg Cases Innov Tech, 2020. 6(2): p. 224-227.
10. Finlay-Jones, A., et al., Online self-compassion training to improve the wellbeing of youth with chronic medical conditions: protocol for a randomised control trial. BMC Public Health, 2020. 20(1): p. 106.
11. Flett, T., et al., Spinal needle size and traumatic neonatal lumbar puncture: an observational study (neo-LP). Eur J Pediatr, 2020.
12. Hagemann, E., et al., The ORIGINS project, in Current Topics in Environmental Health and Pre-emptive Medicine. 2019.
13. Huang, R.C., et al., Feasibility of conducting an early pregnancy diet and lifestyle e-health intervention: the Pregnancy Lifestyle Activity Nutrition (PLAN) project. J Dev Orig Health Dis, 2020. 11(1): p. 58-70.
14. Kumar, P., et al., Global Variations in Practices Concerning Roux-en-Y Gastric Bypass-an Online Survey of 651 Bariatric and Metabolic Surgeons with Cumulative Experience of 158,335 Procedures. Obes Surg, 2020.
15. Lambert, K., et al., Letter to the editor on "Potential use of salt substitutes to reduce blood pressure". J Clin Hypertens (Greenwich), 2019. 21(10): p. 1609-1610.
16. Lee, H.L., et al., Concordant PET/CT and ICG positive lymph nodes in endometrial cancer: a case of mistaken identity. J Surg Case Rep, 2020. 2020(1): p. rjz377.
17. Lee, H., S. Shafiezhadeh, and R. Singh, Fumarase-deficient uterine leiomyoma: a case of a rare entity and surgical innovation. J Surg Case Rep, 2020. 2020(3): p. rjaa044.
18. Lopez, D., et al., Maintaining quality of life in patients with chronic obstructive pulmonary disease (COPD) by extending the maintenance phase of community-based pulmonary rehabilitation: protocol for a randomised controlled trial (ComEx3 Study). BMJ Open Respir Res, 2020. 7(1).
19. Malacova, E., et al., Stillbirth risk prediction using machine learning for a large cohort of births from Western Australia, 1980-2015. Sci Rep, 2020. 10(1): p. 5354.
20. Ng, Z.Q., P. Rogers, and P. Salama, Laparoscopic total proctocolectomy for Crohn's colitis - a video vignette. Colorectal Dis, 2020.

- 21.** Nightingale, S. and A. Sharma, Functional gastrointestinal disorders in children: What is new? *J Paediatr Child Health*, 2020.
- 22.** Norman, R., et al., What Matters to Potential Patients in Chemotherapy Service Delivery? A Discrete Choice Experiment. *Appl Health Econ Health Policy*, 2020.
- 23.** Oshin, O., et al., Multivariable Analysis of Patients With Severe Persistent Postprocedural Hypotension After Carotid Artery Stenting. *J Endovasc Ther*, 2019: p. 1526602819869929.
- 24.** Palan, R. and P.R. Salama, Incarceration of a Meckel's diverticulum by jejunal diverticulosis: an atypical cause of small bowel obstruction. *ANZ J Surg*, 2020.
- 25.** Parker, C.M. and M.N. Cooper, Prednisolone Versus Dexamethasone for Croup: a Randomized Controlled Trial. *Pediatrics*, 2019. 144(3).
- 26.** Rogers, P., et al., Vaginal evisceration of small bowel. *J Surg Case Rep*, 2019. 2019(11): p. rjz317.
- 27.** Rogers, P., Z.Q. Ng, and P. Salama, Recurrent psoas abscess secondary to Crohn's fistula disease. *Tech Coloproctol*, 2020.
- 28.** Rueter, K., et al., Analytical Bias in the Measurement of Plasma 25-Hydroxyvitamin D Concentrations in Infants. *Int J Environ Res Public Health*, 2020. 17(2).
- 29.** Rueter, K., et al., In "High-Risk" Infants with Sufficient Vitamin D Status at Birth, Infant Vitamin D Supplementation Had No Effect on Allergy Outcomes: A Randomized Controlled Trial. *Nutrients*, 2020. 12(6).
- 30.** Swarnkar, V., et al., Stratifying asthma severity in children using cough sound analytic technology. *J Asthma*, 2019: p. 1-14.
- 31.** Verhasselt, V., et al., Ovalbumin in breastmilk is associated with a decreased risk of IgE-mediated egg allergy in children. *Allergy*, 2020. 75(6): p. 1463-1466.
- 32.** Wearne, D., et al., Exploring the relationship between auditory hallucinations, trauma and dissociation. *BJPsych Open*, 2020. 6(3): p. e54.
- 33.** Weber, K., et al., A dietetic clinical educator enhances the experience and assessment of clinical placement. *Nutr Diet*, 2019. 76(4): p. 486-492.
- 34.** Willcox, J.C., et al., Evaluating Engagement in a Digital and Dietetic Intervention Promoting Healthy Weight Gain in Pregnancy: Mixed Methods Study. *J Med Internet Res*, 2020. 22(6): p. e17845.
- 35.** Willcox, J.C., et al., Women's Engagement With Pregnancy Lifestyle Activity and Nutrition: An Electronic Health and Dietetic Intervention to Promote Healthy Weight Gain in Pregnancy. *J Med Internet Res*, 2020.
- 36.** Zhou, H., et al., Risk factors associated with 30-day all-cause unplanned hospital readmissions at a tertiary children's hospital in Western Australia. *J Paediatr Child Health*, 2020. 56(1): p. 68-75.
- 37.** Zhou, H., et al., Prediction of paediatric 30-day unplanned hospital readmissions: A case-control retrospective analysis of medical records including written discharge documentation using machine learning. 2020.



Current Research¹

ALLIED HEALTH

- **1725** The role of executive function in discourse production and health-related quality of life in aphasia
- **1905** Does malnutrition risk affect rehabilitation progress?
- **1915** Stand up for chronic obstructive pulmonary disease
- **1917** Hemi-Hamate Arthroplasty Rehabilitation Protocol
- **1918** ORIF (Open Reduction Internal Fixation) with hook plate for bony mallet fractures
- **1921** A Phase 3, Multi-Arm, Multi-Stage Covariate-Adjusted, Response-Adaptive, Randomised Trial to determine Optimal Early Mobility Training after Stroke (Avert Dose)
- **1934** 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
- **1944** From Observing to Doing: Embedding Entrustable Professional Activities in Allied Health Placements

ANAESTHETICS

- **1703** Assessment and management of obstructive sleep apnoea following bariatric surgery
- **1737** A multicentre trial of Continuous Catheters in Adductor Canal versus Femoral Triangle (The CAFE Study) locations for Total Knee Replacement Surgery (CAFÉ Study)
- **1741** Review of perioperative diabetes management: An audit of peri-operative glycaemic control and adverse outcomes in diabetic patients following the introduction of new guidelines
- **1745** Quantify and assess the mortality and the post-operative morbidity of patients having undergone an elective open abdominal aortic aneurysm (AAA) at JHC during the period 2009 – 2017
- **1928** Evaluation of Essential Pain Management (EPM) workshops in Aboriginal health service

CARDIOLOGY AND VASCULAR SURGERY

- **0609** Monitoring Coronary Heart Disease in the modern era
- **1221** Evaluation of Long-Term Clinical and Health Service Outcomes Following Coronary Artery Revascularisation in Western Australia
- **1225** Functional status of survivors of out-of-hospital cardiac arrest in Perth, Western Australia
- **1621** Is the incidence of heart attack still decreasing in Australia? Developing more reliable methods for monitoring trend in myocardial infarction and coronary heart disease
- **1636** Classification of chronic heart failure using sound recordings
- **1645** The BARD VENOVO TM Venous Stent Study — A prospective, non-randomized, multi-center, single-arm study of the treatment of iliofemoral occlusive disease — an assessment for effectiveness and safety (VERNACULAR)

¹As at 1st July 2020, based on HREC approval status

EMERGENCY MEDICINE

- **1620** Evaluating the Clinical Real-time Information System (CriS): System usability in an emergency department
- **1715** Patient outcomes for those receiving CPAP for severe respiratory distress in the prehospital setting
- **1802** Joondalup Emergency Department Intubations Audit 2018
- **1811** Australian Snakebite Project (ASP)
- **1819** A review of Joondalup Health Campus Emergency Department's recall protocol for patients with abnormal radiology or pathology results, focusing specifically on documentation in the medical notes
- **1832** Sampling blood from peripheral intravenous cannulas, venepuncture and haemolysis rates: An observational study
- **1833** Headache in the Emergency Department (HEAD Study)
- **1835** Review of Time Delays to Patient Imaging in the Emergency Department
- **1839** Back pain in Joondalup Health Campus Emergency Department: a continuous quality improvement project
- **1909** A retrospective application and comparative analysis of a frail adult pathway, on a cohort of older adults presenting to a West Australian metropolitan emergency department
- **1920** The impact of the Goals of Patients care Summary on Documentation of Advance Care Planning Discussions with Patients and their Surrogate Decision Makers
- **1929** Evaluation of the expansion of take-home naloxone project conducted by the Mental Health Commission
- **1931** Examination of the interuser reliability of the Joondalup Health Campus paediatric wheeze severity scoring tool
- **2009** CREST Concussion Recovery Study
- **2026** Retrospective review of the appropriateness of cervical spine CT for trauma patients presenting to JHC ED
- **2027** A retrospective review of the appropriate usage of CT abdomens in patients presenting with abdominal pain to Joondalup Health Campus Emergency Department.
- **2029** Retrospective review of Head CT Scans for patients presenting to Joondalup Health Campus Emergency Department

INFECTIOUS DISEASES

- **2016** Virucidal pilot study of Nasodine® Antiseptic Nasal Spray (povidone-iodine 0.5%) in people with COVID-19 and confirmed nasal shedding of SARS-CoV-2 virus
- **2023** Serology Survey of Health Care Workers following close contact with positive COVID-19 Participants whilst wearing Personal Protective Equipment in a low community prevalence setting
- ASCOT Trial: Australasian COVID-19 Trial

INTENSIVE CARE MEDICINE

- **1616** Short PeRiod IncideNce sTudy of Severe Acute Respiratory Infection (SPRINT-SARI)
- **1617** Prophylactic administration of Melatonin for the prevention of Delirium in Intensive Care Units – A randomised placebo controlled trial (The ProMEDIC Trial)
- **1646** The impact of an m-health recovery program on the mental health and wellbeing of intensive care survivors:
A randomized controlled trial
- **1815** Introducing a Medical Emergency Team (MET) review documentation template to improve clinical handover and patient outcome
- **2015** West Australian APRV Ventilation (WAVES) Study

NURSING AND MIDWIFERY

- **1527** Driving health care efficiencies and patient care outcomes by improving communication across acute transitions of care (ReSPECT)
- **1718** Development and implementation of an antenatal triage process at Joondalup Health Campus
- **1711** Exploring the impact of a delirium assessment tool on delirium prevalence, outcomes and management during a hospital admission
- **1947** Understanding Nurses' perception of their non-technical skills in response to and reporting of clinical deterioration in medical-surgical wards

OBSTETRICS AND GYNAECOLOGY

- **0919** Australasian Maternity Outcome Surveillance System
- **1315** Environmental Determinants of Islet Autoimmunity (ENDIA)
- **1709** A retrospective cohort study comparing the patient experience of two methods of contraception, sterilization or simultaneous use of the Mirena intra-uterine device, after having a Novasure endometrial ablation for heavy menstrual bleeding
- **1935** Mackenzie's Mission: The Australian Reproductive Carrier Screening Project

ONCOLOGY AND HAEMATOLOGY

- **1829** Incidence of radiation necrosis in patients with brain metastases who received stereotactic radiotherapy with or without chemotherapy and immunotherapy at Sir Charles Gairdner Hospital
- **1831** Role of patient HLA class I genotype as a predictive biomarker of response to immunotherapy in lung cancer
- **1916** Valuing aspects of cancer care: Patient and population perspectives
- **PACIFIC-R**: First real-world data on unresectable stage III NSCLC patients treated with durvalumab after chemotherapy

ORIGINS PROJECTS – OBSTETRICS AND PAEDIATRICS

- **1440** The ORIGINS Project: A healthy start to life for a better future
- **1451r** The SYMBA study: Improving gut biodiversity with soluble fibre and probiotic supplementation in early life to prevent allergic disease
- **1536** The Cardiovascular Risk Evaluation in expectant fathers (CARE-Dads) Study
- **1624** Testosterone and Language in Kids (TALK) Study
- **1708** A Family's Journey at JHC: Analysis of routinely collected data
- **1728** Screen ORIGINS: First longitudinal study of the multidimensional influences and impacts of contemporary screen technology use over the first five years of life
- **1729** Breastfeeding and Eating Nuts and Eggs For Infant Tolerance (BENEFIT) Trial
- **1740** Introducing cashew nuts during infancy: The Cashew Study
- **1746** A vulnerable airway epithelium: A pilot study to assess recruitment and nasal sampling in newborns
- **1804** Screen ORIGINS: Qualitative investigation of parental views and practices regarding screen technology use by young children
- **1830** Maternal diet rich in eggs and peanuts to reduce food allergies: a randomised controlled trial (PrEggNut Study)
- **1838** A Pilot Study of a behavioural intervention for increasing the quality of parent-baby social interactions in the first 6 months of life: The Engage Study
- **1901** Helping new mothers to breastfeed - before their babies are even born
- **1902** Early Moves Study
- **1904** The SunPreg Study: Measuring sun exposure in pregnancy and its association with the development of early childhood allergies.

ORIGINS PROJECTS – OBSTETRICS AND PAEDIATRICS

- **1906** 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)
- **1908** The Airway Epithelium Respiratory Illnesses and Allergy "AERIAL" Study Vulnerable from the first breath – epithelial dysfunction and respiratory outcomes in children
- **1911** TUMS Study - Water Quality and the Microbiome Study
- **1922** Diabetes during pregnancy and subsequent child development: A 3 3-year follow up study
- **1923** 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
- **1924** Origins of neurodevelopmental risk and resilience: Examining neurodevelopmental trajectories of infants in the ORIGINS cohort.
- **1926** Kindy readiness in the ORIGINS cohort
- **1927** Mums minds matter: A pilot study of antenatal mindfulness and self-compassion training to reduce maternal stress and support wellbeing
- **1941** A randomised-controlled trial of a behavioural intervention for optimising social and communication of newborns at high genetic risk of autism spectrum disorders
- **1946** Onset of severe RSV bronchiolitis due to identified maternal or environmental viral transmission (ORBIT)
- **2001** Time Out for Wellbeing: an experimental study within the ORIGINS Project pregnancy cohort
- **2024** The COVID Community compassion Study (COCOON): Assessing virus transmission immunity development and wellbeing of families during COVID-19
- **2037** ORIGINS Community Wellbeing during the COVID-19 Pandemic - Part B: ORIGINS Team, Collaborators and Joondalup Health Campus Staff
- *Plus project 1934 (PLAN Project) which is listed under Allied Health*

ORTHOPAEDICS

- **1539** Effect of arthroscopic femoroacetabular impingement surgery on pelvic tilt (FAI)
- **1622** Does far cortical locking improve fracture healing in elderly patients distal femur fractures: A randomised, controlled prospective multicentre study
- **1817** Perth Shoulder Protocol: Inter- and intra-rater reliability of using computer tomography to assess prosthesis position post shoulder arthroplasty
- Australia New Zealand Trauma Registry
- National Joint Replacement Registry

PAEDIATRICS

- **1501** Diagnosis of childhood respiratory illness using non-contact sound recordings
- **1712** 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
- **1722** Better Together': Supporting Perinatal and Infant Mental Health Services
- **1821** Children's participation in the decision-making process during hospitalisation
- **1823** Randomised controlled trial comparing effectiveness of 22G versus 25G lumbar puncture needles
- **1826** The Bronchiolitis Inpatient Audit
- **1837** Safely Preventing Errors and Complications due to Inappropriate Allergy Labelling: The SPECIAL Study – The Paediatric Study
- **1907** Cognitive Improvement by early Restoration of circADian rhythms in very preterm Infants through Environmental Modification: The CIRCA DIEM Study
- **1914** Hypoglycaemia and it's risk factors in a level 2 Nursery
- **1930** Father's Matter: Fathers experiences of caring for their late preterm infants in the neonatal unit
- **1940** Escalation project: Unifying systems for recognition and response to paediatric clinical deterioration in Western Australia

PSYCHIATRY AND MENTAL HEALTH

- **1742** Examining interventions implemented by nursing staff based on the Risk Assessment Matrix (RAM-1) in a mental health secure unit: A retrospective observational study
- **1825** Heart rate indications of antidepressant effectiveness

REHABILITATION AND AGED CARE

- **1647** Australian and New Zealand Hip Fracture Registry (ANZHFR)
- **1744** Effectiveness of an oral care protocol in an older adult rehabilitation unit
- **1814** Audit for the adequate management of pain in elderly patients with hip fractures
- **1925** Short -term postoperative complications and mortality outcomes following fractured neck of femur surgery

RENAL MEDICINE

- **1513** Independent predictors of successful vascular access cannulation in haemodialysis patients and the development a vascular access cannulation complexity instrument
- **1720** Protection against Incidence of Sudden Cardiovascular Events Study with daily fish oil supplementation in dialysis patients (PISCES Study)

STROKE SERVICE

- The Australian Stroke Clinical Registry

SURGERY (INCLUDING EAR, NOSE & THROAT SURGERY)

- **1453** Establishment of a Bariatric Surgery Clinical Quality Registry
- **1650** Histology in Post Tonsillectomy Haemorrhage
- **1827** Discectomy Survey
- **2002** Surgical management of pilonidal sinus disease: a retrospective cohort study
- **2011** Reliability of estimating blood loss in epistaxis and the value of a visual aid

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 Human Research Ethics Committee (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, conducted at Joondalup Health Campus in 2019-2020, were approved by a HREC without the requirement for consent:

Surgical management of pilonidal sinus disease: a retrospective cohort study

This study examined elective operations performed for pilonidal sinus and compared healing rates, healing times, rates of recurrence and consideration of the impact of surgery to patients in terms of size of excised tissue, return to work, and patient experience.

West Australian APRV Ventilation Study (WAVES)

Airway pressure release ventilation (APRV) is a rescue mode of ventilation for patients with severe respiratory failure, including those with COVID-19. The aims of this study were to aggregate and publish the early experience of APRV use in patients with COVID-19 and to compare outcomes of patients managed with APRV with those receiving alternative modes of ventilation.

Retrospective review of the appropriateness of cervical spine CT for trauma patients presenting to JHC ED

This study involved a review of cervical spine CT scans performed on patients who presented to the JHC Emergency Department following trauma. The indication for performing the CT was identified and compared to established guidelines for cervical spine imaging in trauma patients, to assess if the imaging performed was appropriate and necessary.

A retrospective review of the appropriate usage of CT abdomens in patients presenting with abdominal pain to Joondalup Health Campus Emergency Department.

This was a study to examine the indication for abdominal CT scans in the Emergency Department (ED). Results were then compared against various clinical guidelines for ordering CT abdomens, to determine whether CTs ordered in the ED were in keeping with those guidelines.

Retrospective review of Head CT Scans for patients presenting to Joondalup Health Campus Emergency Department

A review of CT head scans was performed on patients who presented to the Emergency Department. The indications for CT head scans were compared to pre-existing guidelines regarding CT brain imaging in specific clinical circumstances such as trauma. The results of CT scans were then examined to determine whether scanning resulted in a change of clinical management, or whether a scan could have been avoided by using guidelines or clinical rules.

Collaborations

Research currently being conducted at Joondalup Health Campus involves collaboration with researchers from the following Western Australian organisations:

Child and Adolescent Health Service

Curtin University

Edith Cowan University

East Metropolitan Health Service

Harry Perkin's Institute of Medical Research

Murdoch University

North Metropolitan Health Service

Ramsay Health Care

South Metropolitan Health Service

Telethon Kids Institute

University of Notre Dame

University of Western Australia

Western Diagnostic Pathology

Plus many other national and international collaborators.





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People caring for people.